00 Label:	
-----------	--

Step:

Gestione modi da Xilog a Cn

]>[Modatt_0]/[%V24.0	Modedem = 0 (T) %W14.B = 0x0
Xil_modo == 5 		Modedem = 1 (T) %W14.B = 0x1
Xil_modo == 4 	_	Modedem = 2 (T) %W14.B = 0x2
Xil_modo == 1 	_	Modedem = 7 (T) %W14.B = 0x7
Xil_modo == 3 	_	Modedem = 8 (T) %W14.B = 0x8
Xil_modo == 0 	Modatt_11 	Modedem = 11 (T) %W14.B = 0xb

01 Label:

Step:

Selezione dei modi

Modcour != Modedem	Modpup (S)
%R16.B != %W14.B	%W5.1
Modcour == Modedem	Modpup (R)
%R16.B == %W14.B	%W5.1

Selezione dei modi CN da plc

Selezione dei modi CN da plc

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02 Label:	Step:	Gestione modi da Cn a Xilog
	_	

Modcour == 0	Modatt_0	Mem. per modo in corso (Cont)
]>[%R16.B == 0x0	() %V24.0	
Modcour == 1	Modatt_1	Mem. per modo in corso (Seq)
%R16.B == 0x1	%V24.1	
Modcour == 2]>[Modatt_2	Mem. per modo in corso (Mdi)
%R16.B == 0x2	%V24.2	
Modcour == 7	Modatt_7	Mem. per modo in corso (Man)
%R16.B == 0x7	%V24.3	
Modcour == 8]>[Modatt_8	Mem. per modo in corso (Pom)
%R16.B == 0x8	%V24.4	
Modcour == 11	Modatt_11	Mem. per modo in corso (senza mo
>[*V24.5	

03 Label: Step: Gestione modi da Cn a Xilog

Modatt_7	Modo_xil = 1
	*V514.W = 0x1
Modatt_0	Modo_xil = 2
*V24.0	%V514.W = 0x2
Modatt_8	Modo_xil = 3
%V24.4	%V514.W = 0x3
Modatt_2	Modo_xil = 4
%V24.2	%V514.W = 0x4
Modatt_11] [Modo_xil = 0
%V24.5	%V514.W = 0x0
Modatt_1	Modo_xil = 5
%V24.1	*V514.W = 0x5

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Module: XILOG_CN.XLA		%SP1 (02)	Page	2

	-	
X_j1	E_incjog != 1	C_incjog = 1
%V500.4	%R15.B != 0x1	%W13.B = 0x1
x_j10][E_incjog != 2	C_incjog = 2
%V500.5	%R15.B != 0x2	%W13.B = 0x2
x_j100	E_incjog != 3]>[C_incjog = 3
%V500.6	%R15.B != 0x3	%W13.B = 0x3
x_j1000	E_incjog != 4	C_incjog = 4(T)
%V500.7	%R15.B != 0x4	%W13.B = 0x4
X_j10000	E_incjog != 5]>[C_incjog = 5
%V501.0	%R15.B != 0x5	%W13.B = 0x5
X_jogill	E_incjog != 6	C_incjog = 6(T)
%V500.3	%R15.B != 0x6	%W13.B = 0x6

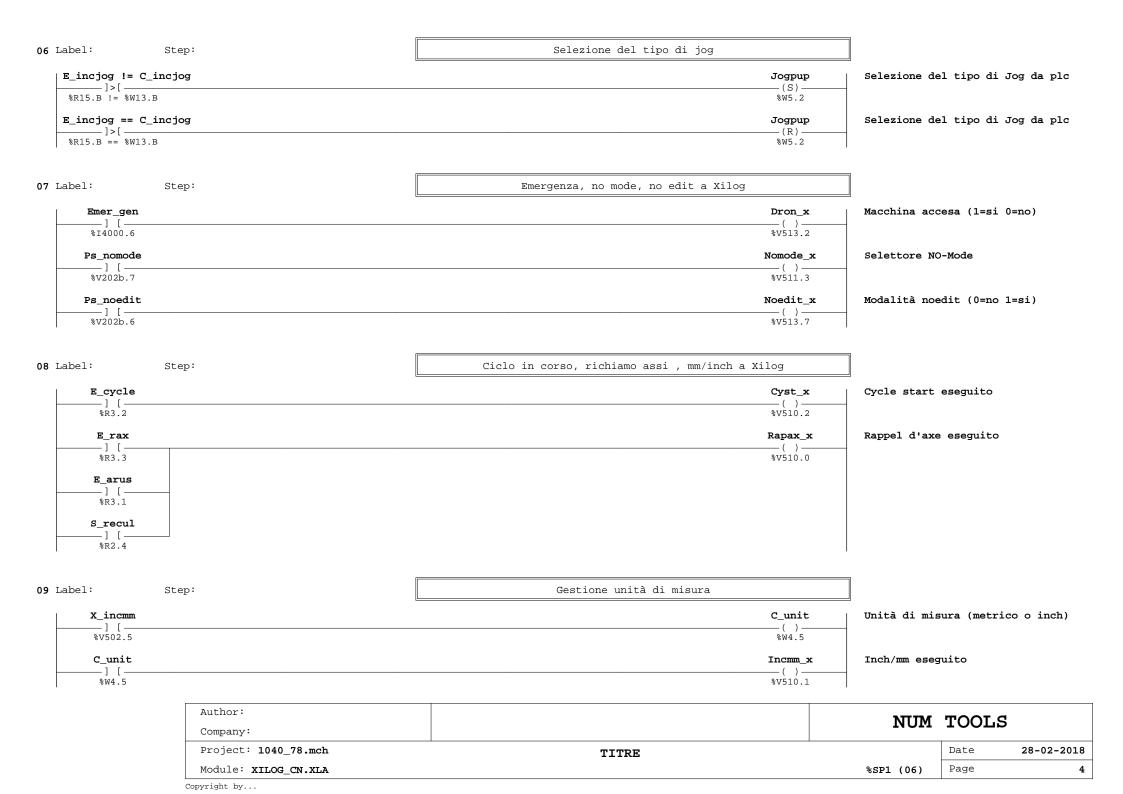
05 Label:	Step:	Gestione jog da Cn a Xilog		
E_incjog ==			J1_x () %V510.6	Jog 1
E_incjog ==			J10_x ()	Jog 10
E_incjog ==			J100_x — () —————————————————————————————————	Jog 100
E_incjog ==			J1000_x — () ———— %V511.1	Jog 1000
E_incjog ==			*10000_x ()	Jog 10000
E_incjog == 			Togill_x — ()——————————————————————————————————	Jog illimitato

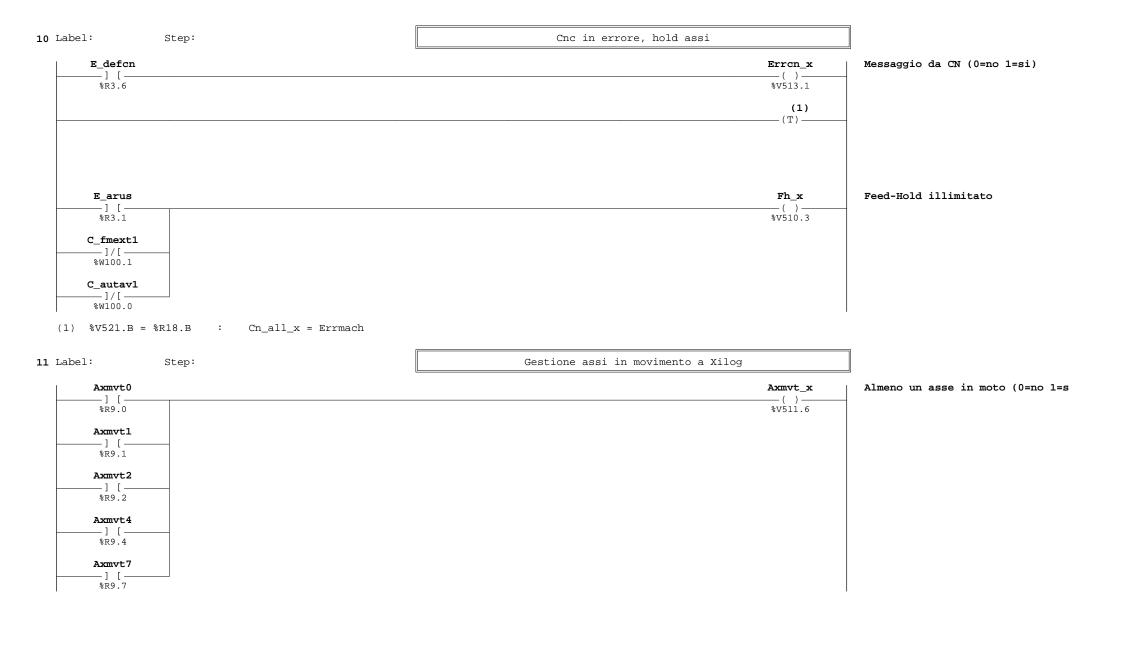
Author:		NUM TOOLS		c c
Company:		NOM	TOOL	5
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: XILOG_CN.XLA		%SP1 (04)	Page	3

Gestione jog da Xilog a Cn

04 Label:

Step:





Author:		NUM TOOLS		r. c
Company:		NOM	100.	1 5
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12 Label: Step: Gestione assi tarati a Xilog Axini0 Axini1 Axini2 E20007 E20008 Pom_x Assi tarati (0=no 1=si) —] / [-_]/[--]/[-—] / [-—] / [— %V511.4 %Rd.0 %Rd.1 %Rd.2 %W11.7 %W10.0 Axini4 Axini7 _1/[_ _1/[_ %Rd.4 %Rd.7 13 Label: Step: Gestione selettore assi a Xilog Ps selax == 1 Selasse x = 1— (Т)— ___ 1>[__ %V202d.B == 0x1 %V516.B = 0x1 Ps_selax == 12 $Selasse_x = 2$ ___]>[___ — (Т)— %V202d.B == 0xc V516.B = 0x2Ps selax == 10 $Selasse_x = 3$ —— 1> [—— —— (T) — %V516.B = 0x3 %V202d.B == 0xa Ps_selax == 3 $Selasse_x = 8$ ___]>[___ — (T)— %V202d.B == 0x3 V516.B = 0x8Ps_selax == 4 $Selasse_x = 9$ — l>[— — (T)— V202d.B == 0x4V516.B = 0x9Ps_selax != 1 Ps_selax != 3 Ps_selax != 4 $Selasse_x = 4$ ___]>[____ ____] > [____ ____]>[____ ____] > [___ _____]>[__ — (T)— %V202d.B != 0x1 %V202d.B != 0xc %V202d.B != 0xa %V202d.B != 0x3 %V202d.B != 0x4 V516.B = 0x4**14** Label: Step: Gestione richiesta manuale in modo automatico $V5b4_b == 0$ $V5b5_b == 0$ V200_0 Ps_nomode Richiesta abil. funzioni manuali X_end X_ventose Manen_x — l>[— — l>[— — 1 / f — —R T-— 1/[— —(S)— %V5b4.B == 0x0 %V5b5.B == 0x0 %V503.0 %V502.7 %V200.0 %V202b.7 %V513.3 Gen_em_cn __1 [_ %V1e.0 X_test_fora —1 [— %V503.2

> Project: 1040_78.mch Date 28-02-2018 TITRE Page 6 Module: XILOG_CN.XLA %SP1 (12)

NUM TOOLS

Author:

Company:

15 Label: Step: Gestione richiesta manuale in modo automatico Richiesta abil. funzioni manuali Mstart_a Manen_x -][--(R)-%V513.3 %V6.3 Mstart b _][_ %V6.4 Mstart_c —][— %V6.5 Mstart_d __1 [_ %V6.6 X_end, X_test_fora %V503.0, %V503.2 X_ventose —][— %V502.7 **16** Label: Gestione valore potenziometri a Xilog Step: Ps_pot2 < 254 (1) — l > [— (T)-%V202f.B < 0xfe $Potax_x = 255$ — (F)— %V51c.B = 0xff Ps_pot1 < 254 (2) ___]>[__ —(T)— %V202e.B < 0xfe $Potbr_x = 255$ — (F) — %V51d.B = 0xff Vitbr1 > 0 X_modo_sim (3) ___]>[___ —] / [*—* —(T)— %R1c.W > 0x0 %V503.1 Vitbr x = 0—— (F)— V51e.W = 0x0(1) V51c.B = V202f.B: Potax_x = Ps_pot2 (2) %V51d.B = %V202e.B : Potbr_x = Ps_pot1 (3) %V51e.W = %R1c.W * 0xc350 / 0x7fff + 0x1 : Vitbr_x = Vitbr1 * 50000 / 32767 + 1 Author: NUM TOOLS Company: Project: 1040_78.mch Date 28-02-2018 TITRE Page 7 Module: XILOG_CN.XLA %SP1 (15)

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17 Label: Step: Gestione tastatore

X_modo_sim	E40020 = 1	
%V503.1	%Wa50.L = 0x1	
	E40020 = 0 (F)	
	%Wa50.L = 0x0	
E30127 == 1]>[Tasta_x 	Fine tastatura / messaggio
%Rd7c.L == 0x1	%V513.0	
X_tastaok	E30127 = 0	
%V503.7	(T) %Rd7c.L = 0x0	
	Tasta_x	Fine tastatura / messaggio
	(R)	

Author:		NIIM	TOOLS	
Company:		11011	10011	
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```
Lm_cd
                                                                                            %Q4000.1 Laser linea per archi area CD
// FILE NAME : 800.xsy
                                                                       Rot disco
                                                                                            %04000.2
                                                                                                          Rotazione fresa disco
                                                                                            %04000.3
                                                                                                          Rotazione mandrini testa principale
// DESCRIZIONE : Input Output fisici
                                                                       Rot man1
Drv ond
                                                                                     %04000.4 Abilitazioni assi d.c.
                                                                                     %Q4000.5
                                                                                                          Rotazione mandrini testina 9/11
                                                                       Rot man2
#include [simboli.lib] E30000.XSY
                                                                       Reset_inv
                                                                                            %04000.6
                                                                                                          Reset inverter generico
#include [simboli.lib] ES CN.XSY
                                                                       Invl on
                                                                                     %04000.7 Abilitazione inverter n.1
                                                                                            %Q4001.0
                                                                                                          Abilitazione CCW inverter n.1
#include [simboli.lib] ES_GR1.XSY
                                                                       Inv1 ccw
                                                                                     %04001.1 Abilitazione inverter n.2
#include [simboli.lib] ES_GR2.XSY
                                                                       Inv2 on
#include [simboli.lib] ES GR3.XSY
                                                                       Inv2 ccw
                                                                                          %04001.2
                                                                                                          Abilitazione CCW inverter n.2
#include [simboli.lib] FUNZM.XSY
                                                                       Direz_r1
                                                                                            %Q4001.3
                                                                                                          Direzione rapid 6 n.1
                                                                                     %04001.4 Stop rapid 6 n.1
#include [simboli.lib] MECHATRO.XSY
                                                                       Stop r1
#include [simboli.lib] MEM_M.XSY
                                                                       Start_r1
                                                                                            %04001.5
                                                                                                          Start rapid 6 n.1
#include [simboli.lib] MEM_MSG.XSY
                                                                                            %04001.6
                                                                                                           Stop movimento asse seriale (testina
                                                                       S1_posoff
#include [simboli.lib] MEM V 1.XSY
                                                                       11 in Y)
#include [simboli.lib] MEM_V1.XSY
                                                                                     %04001.7
                                                                                                 Rotazione testina cerniere
                                                                       Rot cer
#include [simboli.lib] MEM_V2_1.XSY
#include [simboli.lib] TOOL DIN.XSY
                                                                       //***** MODULO REMOTATO $41 Armadio elettrico *******
#include [simboli.lib] XILOG3.XSY
                                                                       //
#include [simboli.lib] PIGNA_S.XSY
                                                                       //16 INPUT
#include [simboli.lib] ICLA.XSY
                                                                       //
#include [simboli.lib] PV.XSY
                                                                       Drok ser
                                                                                            %I4100.0
                                                                                                          Drive ok asse seriale (testina 11 in
#include [simboli.lib] PDL.XSY
                                                                       Y)
#include [simboli.lib] XIL_ICLA.XSY
                                                                       Inpos 1
                                                                                     %I4100.1 Asse seriale in posizione (testina 11 in Y)
                                                                       Sel morab %I4100.2
//
                                                                                                          Selettore Morsetti/Ventose area AB (
                                                                       =0 Ventose =1 Morsetti)
// VARIABILI INGRESSO / USCITA
                                                                       Sel morcd %I4100.3 Selettore Morsetti/Ventose area CD (
                                                                       =0 Ventose =1 Morsetti)
//***** MODULO REMOTATO $40 Armadio elettrico ********
                                                                       Twin_1 %I4100.4
                                                                                                   Selezione lavorazione Twin area AB
                                                                       Twin_2 %I4100.5 Selezione lavorazione Twin area CD
Sel_rw %I4100.6 Selettore nesting reverse flow
Pul_um2 %I4100.7 Pulsante uomo morto pulsantiera mobile 2
Emer_inv2 %I4101.0 Emergenza inverter n.2
//16 INPUT
                                                                                   %I4101.0 Emergenza inverter n.2
Pres ell
                  %I4000.0
                                   Pressostato refrigeratore el. 11kw n
                                                                                          %I4101.1
                                                                                                          Frequenza 0 inverter n.2
. 1
                                                                       Freq_0_inv2
                %I4000.1
                                                                       End acc inv2 %I4101.2 Fine rampa inverter n.2
Pres el2
                                   Pressostato refrigeratore el. 11kw n
                                                                       Setting %14101.3 Selettore SETTING (armadio elettrico)
. 2
Sel man aut
                                                                                   %I4101.4
                                                                                                          Selettore PDL MAN/AUTO
                                                                                         %I4101.5
%I4101.6
                                                                       Tapp_cen_ok
                                                                                                          Tappeto centrale ok
Drv ok dc
                  %I4000.4
                                   Drive ok assi dc (Axor)
                                                                       Tapp_ab_ok
                                                                                                          Tappeti area AB ok
Check dm
                    %I4000.5
                                   Verifica rotazine fresa disco /
                                                                       Tapp_cd_ok
                                                                                            %I4101.7
                                                                                                          Tappeti area CD ok
testa mandrini principale
         %I4000.6
                                                                       //16 OUTPUT
Emer_gen
                                   Emergenza generale
                   %I4000.7
                                   Emergenza magnetormici
                                                                       //
Emer ter
            %14000.7
%14001.0
%T4001 1
                                                                                    %Q413B.0 Watchdog
%Q4100.0 Watch_dog (%Q413B.0)
%Q4100.1 Accensione macchina
Emer_inv1
                                   Emergenza inverter n.1
                                                                       Watchdog
                                   Frequenza 0 inverter n.1
Freq_0_inv1
                   %I4001.1
                                                                       Watch_dog
                                                                      End_acc_inv1 %I4001.2 Fine rampa inverter n.1
              %I4001.3 Pulsante uomo morto pulsantiera mobile 1
Pul um1
Check m2
             %I4001.4
                                   Check rotazine mandrini testina 9/11
              %I4001.5 Accostatori (solo con piano puffer)
Sel acc
Sel rull
              %I4001.6 Abilitazione rulliere
Sel rull cs
                     %I4001.7
                                   Abilitazione rulliere con
controsagome
//16 OUTPUT
                                                                       Out_41
                                                                                                  %04101.B
//
Lm ab
                  %04000.0
                             Laser linea per archi area AB
                                                                       Direz r2 tr
                                                                                          %04101.0
                                                                                                          Direzione rapid 6 n.2 / Tool room
                                                                       posteriore
```

Author:

```
%Q4101.1
                                                                                Lubr on
                                                                                                %04201.6
                                                                                                                Abilitazione ciclo lubrificazione (lub.
Stop_r2_tr
                                        Stop rapid 6 n.2 / Tool room
posteriore
                                                                                automatica)
Start_r2_tr
                        %04101.2
                                       Start rapid 6 n.2 / Tool room
                                                                                Man Aut
                                                                                                            %04201.7
                                                                                                                           Piano di lavoro manuale /
posteriore
                                                                                automatico
                        %04101.3
                                        Reset selezione elettromandrini
                                                                                //Reverse flow
                                                                                                        %04201.7
                                                                                                                        Abilitazione nesting reverse flow
Res sell
inverter 1
Res sel2
                        %04101.4
                                        Reset selezione elettromandrini
                                                                                //***** MODULO REMOTATO $43 Carter superiore *******
                                                                                // Gestione testa 10+2 mandrini e gruppi ausiliari
inverter 2
Cufl up
                %04101.5
                                Motore cuffia (salita)
Cuf1 dw
                %04101.6
                                Motore cuffia (discesa)
                                                                                //16 INPUT
//
                        %04101.7
                                                                                //
                                                                                                                Tirante elettromandrino MS SCM 1
//
                                                                                Tir ms1
                                                                                                %T4300.0
//***** MODULO REMOTATO $42 Carter anteriore *******
                                                                                Sbl ms1
                                                                                                %I4300.1
                                                                                                                Sblocco elettromandrino MS SCM 1
// Gestione piano di lavoro 4 aree indipendenti / Twin 4 aree
                                                                                Zero ms1
                                                                                                       %I4300.2
                                                                                                                        Zero speed elettromandrino MS SCM 1
                                                                                Saf ms1
                                                                                                                Sicurezza elettromandrino MS SCM 1
                                                                                                %I4300.3
//16 INPUT
                                                                                Tir ms2
                                                                                                %I4300.4
                                                                                                                Tirante elettromandrino MS SCM 2
                                                                                Sbl_ms2
                                                                                                %T4300.5
                                                                                                                Sblocco elettromandrino MS SCM 2
//
Puls va
                %I4200.0
                                Blocco/sblocco pannello area A
                                                                                Zero ms2
                                                                                                       %I4300.6
                                                                                                                        Zero speed elettromandrino MS SCM 2
                                                                                                                Sicurezza elettromandrino MS SCM 2
Puls vbi
                        %I4200.1
                                        Blocco/sblocco pannello area B /
                                                                                Saf ms2
                                                                                                %I4300.7
                                                                                                %I4301.0
                                                                                                                Tirante elettromandrino MS SCM 3
area I Twin
                                                                                Tir ms3
                                                                                Sbl ms3
                                                                                                                Sblocco elettromandrino MS SCM 3
Puls vcl
                                        Blocco/sblocco pannello area C /
                                                                                                %I4301.1
                        %I4200.2
area L Twin
                                                                                Ok twin3
                                                                                                        %T4301.2
                                                                                                                        Sonda termica elettromandrino n.3
Puls_vd
                %I4200.3
                                Blocco/sblocco pannello area D
                                                                                Ok_twin1
                                                                                                        %I4301.3
                                                                                                                        Sonda termica elettromandrino n.1
                                                                                (rapid 1)
                %I4200.4
                                Vacuostato area A
Vacu_a
                %I4200.5
                                Vacuostato area B / area I Twin
Vacu bi
                                                                                Ok twin2
                                                                                                        %I4301.4
                                                                                                                        Sonda termica elettromandrino n.2
Vacu cl
                %14200.6
                                Vacuostato area C / area L Twin
                                                                                (rapid 2)
Vacu_d
                %I4200.7
                                Vacuostato area D
                                                                                Vp_agg
                                                                                                %I4301.5
                                                                                                                Gruppo per mov. piani/ventose agganciato
                                                                                                %I4301.6
Emer_ar
                %I4201.0
                                Pressostato presenza aria
                                                                                Disco_0
                                                                                                                Fresa disco posizione 0°
Lubr_gr
                %I4201.1
                                Presenza grasso (lub. centralizzata)
                                                                                Disco 90
                                                                                                        %I4301.7
                                                                                                                        Fresa disco posizione 90°
                                Test lub. ok (lub. centralizzata)
Lubr ts
                %I4201.2
                %I4201.3
                                Start ciclo area A
                                                                                //16 OUTPUT
Start_a
                                Start ciclo area B
Start b
                %I4201.4
                                                                                //
Start c
                %T4201.5
                                Start ciclo area C
                                                                                Man 1
                                                                                                        %04300.0
                                                                                                                        Abilitazione mandrino 1
                                                                                                        %Q4300.1
Start_d
                %I4201.6
                                Start ciclo area D
                                                                                Man_2
                                                                                                                        Abilitazione mandrino 2
                                                                                                        %04300.2
                                                                                                                        Abilitazione mandrino 3
//
                       %I4201.7
                                                                                Man 3
                                                                                                        %04300.3
                                                                                                                        Abilitazione mandrino 4
//
                                                                                Man 4
//16 OUTPUT
                                                                                Man 5
                                                                                                        %04300.4
                                                                                                                        Abilitazione mandrino 5
                                                                                Man_6
                                                                                                        %Q4300.5
                                                                                                                        Abilitazione mandrino 6
//
Bfd a
                        %04200.0
                                        Salita BDF area A
                                                                                Man 7
                                                                                                        %04300.6
                                                                                                                        Abilitazione mandrino 7
                                        Salita BDF area B - area I Twin
Bfd_bi
                        %04200.1
                                                                                Man 8
                                                                                                        %04300.7
                                                                                                                        Abilitazione mandrino 8
Bdf cl
                        %04200.2
                                        Salita BDF area C - area L Twin
                                                                                                                        Abilitazione mandrino 9
                                                                                Man 9
                                                                                                        %04301.0
Bdf_d
                                                                                                                Abilitazione mandrino 10
                        %Q4200.3
                                        Salita BDF area D
                                                                                Man_10
                                                                                                %Q4301.1
Bdf b1
                %04200.4
                                Salita BDF area B1
                                                                                Man orx1
                                                                                                        %04301.2
                                                                                                                        Abilitazione mandrino orizzontale X1
                       %Q4200.5
Bdf_c1
                                        Salita BDF area C1
                                                                                Man_ory1
                                                                                                        %04301.3
                                                                                                                        Abilitazione mandrino orizzontale Y1
                %04200.6
                                                                                Ab twin2
                                                                                                                        EO3 assetto 1 / Abilitazione el.2
Vent_a
                                Abilitazione ventose area A
                                                                                                        %04301.4
                                Abilitazione ventose area B - area I Twin
                %04200.7
                                                                                                              Abilitazione discesa fresa disco
Vent bi
                                                                                Ab dis
                                                                                                %04301.5
                %04201.0
                                Abilitazione ventose area C - area L Twin
                                                                                                                        Abilitazione fresa disco posizione
Vent cl
                                                                                Or dis 0
                                                                                                        %04301.6
Vent d
                %04201.1
                                Abilitazione ventose area D
                                                                                0 0
Rull a
                        %04201.2
                                        Abilitazione rulliera aiuto carico
                                                                                Or dis 90
                                                                                                        %04301.7
                                                                                                                        Abilitazione fresa disco posizione 9
area A
Rull bi
                %04201.3
                                Abilitazione rulliera aiuto carico area B -
area I Twin
                                                                                //***** MODULO REMOTATO $44 Carter superiore *******
                        %04201.4
                                        Abilitazione rulliera aiuto carico
                                                                                // Gestione magazzino Rapid 10/14 associato a el. n.1
Rull cl
area C - area L Twin
                                                                                //
Rull d
                        %04201.5
                                       Abilitazione rulliera aiuto carico
                                                                                //16 INPUT
area D
                                                                                //
```

Author:		NUM	TOOL	c c
Company:		NOM	тооц	3
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: 800.XSY			Page	2

```
%I4400.0
                                                                                Cuffia dis
                                                                                                        %I4500.7
                                                                                                                        Cuffia disabilitata (X5)
Imcu_out_r1
                                        Magazzino posizione OUT (rapid1)
Imcu in r1
                        %I4400.1
                                        Magazzino posizione IN (rapid1)
                                                                                                        %I4501.0
                                                                                //
                        %I4400.2
                                                                                                        %I4501.1
Imcu_up_r1
                                        Magazzino posizione UP (rapid1)
                                                                                //
Imcu dn r1
                        %I4400.3
                                        Magazzino posizione DOWN (rapid1)
                                                                                //
                                                                                                        %I4501.2
                                        Cuffia el. posizione di CU (rapid1)
                                                                                //
Icuff cu r1
                        %I4400.4
                                                                                                        %I4501.3
Fc_in_v_r1
                        %I4400.5
                                        Fine corsa asse vector - (rapid1)
                                                                                GrX5_on
                                                                                                %I4501.4
                                                                                                                Gruppo X5 posizione basso
Fc_av_v_r1
                        %I4400.6
                                        Fine corsa asse vector + (rapid1)
                                                                                GrX5_off
                                                                                                        %I4501.5
                                                                                                                        Gruppo X5 posizione alto
                                        Sicurezza utensile el. (rapid1)
                                                                                Gruppo_alto
                                                                                                        %I4501.6
Em saf r1
                        %I4400.7
                                                                                                                        Gruppo mandrini posizione alto (X5 -
Itir_e_r1
                        %I4401.0
                                        El. tirante (rapid1)
                                                                                Top Ante)
Iem pcu r1
                        %I4401.1
                                        El. posizione cambio utensile (rapid
                                                                                Gruppo basso
                                                                                                %I4501.7
                                                                                                                Gruppo mandrini posizione basso (X5 - Top
1)
                                                                                Ante)
Iem_p1_r1
                        %I4401.2
                                        El. posizione 1 (rapid1)
                                                                                //
//
                        %I4401.3
                                                                                //16 OUTPUT
                        %I4401.4
Speed_0_r1
                                        El. 0_speed (rapid1)
                                                                                //
Iem_ptr_r1
                                                                                                                        Abilitazione accesso modulo 45
                        %I4401.5
                                        El. posizione n.2 ON (doppio assetto
                                                                                Modulo 45
                                                                                                        %0453b.1
/carico tool-room)
                                                                                Servizio1
                                                                                                        %04500.0
                                                                                                                        EV servizio 1 elettromandrini
                        %I4401.6
                                                                                Servizio2
                                                                                                        %Q4500.1
                                                                                                                        EV servizio 2 elettromandrini
//
                        %I4401.7
                                                                                Servizio3
                                                                                                        %04500.2
                                                                                                                        EV servizio 3 elettromandrini
//
                                                                                Emcu45 su
                                                                                                        %04500.3
                                                                                                                        EV sblocco utensile (X5)
//16 OUTPUT
                                                                                                                        EV soffiatore elettromandrino (X5)
                                                                                Soffio x5
                                                                                                        %Q4500.4
                                                                                                        %04500.5
                                                                                                                        Abilitazione aspirazione
//
                                                                                As 1
Modulo 44
                        %0443b.1
                                        Abilitazione accesso modulo 44
                                                                                 centralizzata 1
Mcu_out_r1
                        %04400.0
                                        Magazzino pos. OUT (rapid1)
                                                                                As 2
                                                                                                        %Q4500.6
                                                                                                                        Abilitazione aspirazione
Mcu_in_r1
                        %04400.1
                                        Magazzino pos. IN (rapid1)
                                                                                 centralizzata 2
                                        Magazzino pos. UP (rapid1)
Mcu up r1
                        %04400.2
                                                                                As 3
                                                                                                        %04500.7
                                                                                                                        Abilitazione aspirazione
Mcu dn r1
                        %04400.3
                                        Magazzino pos. DOWN (rapid1)
                                                                                 centralizzata 3
Emcu_su_r1
                        %Q4400.4
                                        Sblocco utensile + soffiatore (rapid
                                                                                GruppoX5_off
                                                                                                        %Q4501.0
                                                                                                                        Salita gruppo X5
                                                                                GruppoX5_on
1)
                                                                                                        %Q4501.1
                                                                                                                        Discesa gruppo X5
Emcu_ptr_r1
                        %04400.5
                                        El. posizione n.2 ON (doppio assetto
                                                                                Ocil basso
                                                                                                        %04501.2
                                                                                                                        EV cilindro cuffia basso (X5)
                                                                                Ocil alto
                                                                                                                        EV cilindro cuffia alto (X5)
/carico tool-room)
                                                                                                        %04501.3
                                        El. posizione CU (rapid1)
                                                                                Ocuff_aperta
                                                                                                                        EV cuffia aperta (X5)
Emcu_pcu_r1
                        %Q4400.6
                                                                                                        %Q4501.4
                                        El. posizione 1+ aspirazione (rapid1
                                                                                Ocil chiusa
                                                                                                                        EV cuffia chiuso (X5)
Emcu pl rl
                        %04400.7
                                                                                                        %04501.5
                                                                                Gruppo_on
                                                                                                        %Q4501.6
                                                                                                                        EV discesa gruppo mandrini
                                                                                                                        EV salita gruppo mandrini
Cuff_cu_r1
                        %04401.0
                                        Cuffie posizione CU (rapid1)
                                                                                Gruppo_off
                                                                                                        %Q4501.7
Cuff pl rl
                                        Cuffie posizione 1 (rapid1)
                        %04401.1
                                                                                //****** MODULO REMOTATO $46 Carter superiore *******
                                        Cuffie posizione 2 (rapid1)
Cuff_p2_r1
                        %04401.2
Cuff p3 r1
                        %04401.3
                                        Cuffie posizione 3 (rapid1)
                                                                                // Estensione per gestione testa 18+3 mandrini e gruppi ausiliari
Freno_a_r1
                        %04401.4
                                        Freno asse A (vector rapid1)
                                                                                //
Fbr2_spon
                        %04401.5
                                        Freno asse B (vector rapid2)
                                                                                //16 INPUT
Soffio r1
                        %04401.6
                                        Soffiatore per testine
                                                                                //
                                        El. posizione n.2 OFF (doppio
                                                                                                        %I4600.0
Emcu poff r1
                        %04401.7
                                                                                //
                                                                                                        %I4600.1
assetto/carico tool-room)
                                                                                //
                                                                                //
                                                                                                        %I4600.2
//***** MODULO REMOTATO $45 Carter superiore *******
                                                                                11
                                                                                                        %I4600.3
// Gestione elettromandrino X5 e Top Ante
                                                                                //
                                                                                                        %I4600.4
                                                                                //
                                                                                                        %I4600.5
//16 INPUT
                                                                                //
                                                                                                        %14600.6
                                                                                //
                                                                                                        %I4600.7
//
Icuff
                                        Cuffia posizione cambio utensile
                                                                                Tir ms5
                                                                                                                Tirante el. MS SCM 5
                        %I4500.0
                                                                                                %I4601.0
(Top Ante)
                                                                                Sbl ms5
                                                                                                %I4601.1
                                                                                                                Sblocco el. MS SCM 5
Sbl
                        %I4500.1
                                        Sblocco avvenuto HSK (X5 - Top Ante)
                                                                                Zero ms5
                                                                                                        %I4601.2
                                                                                                                        Zero speed el. MS SCM 5
                        %I4500.2
                                        Tirante (X5 - Top Ante)
                                                                                Saf ms5
                                                                                                %I4601.3
                                                                                                                Sicurezza el. MS SCM 5
Itir
                %I4500.3
                                Zero speed (X5 - Top Ante)
                                                                                                        %I4601.4
Speed 0
                                                                                Ok_twin5
                                                                                                                        Sonda termica el. 5
Icil basso
                        %I4500.4
                                        Cilindro cuffia basso (X5)
                                                                                Unload_up
                                                                                                        %I4601.5
                                                                                                                        Gruppo scarico pezzi per piano
Icuff_alta
                        %I4500.5
                                        Cuffia alta (X5)
                                                                                nesting in posizione UP
Icil_alto
                                        Cilindro cuffia alto (X5)
                        %I4500.6
                                                                                Unload dw
                                                                                                        %I4601.6
                                                                                                                        Gruppo scarico pezzi per piano
                                                                                nesting in posizione Down
```

Author:

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```
//
                        %I4601.7
                                                                                                          %Q4F01.1
                                                                                 //
                                                                                                          %O4F01.2
//16 OUTPUT
                                                                                 //
                                                                                                          %Q4F01.3
                                                                                 11
                                                                                                          %04F01.4
                %04600.0
                                Abilitazione mandrino 11
                                                                                 Ab tasta
Man 11
                                                                                                          %04F01.5
                                                                                                                          Discesa tastatore
Man_12
                %Q4600.1
                                Abilitazione mandrino 12
                                                                                                          %Q4F01.6
                                                                                 //
Man_13
                %Q4600.2
                                Abilitazione mandrino 13
                                                                                 11
                                                                                                          %O4F01.7
Man 14
                %04600.3
                                Abilitazione mandrino 14
                                                                                 //
                %04600.4
Man_15
                                Abilitazione mandrino 15
                                                                                 //
                                                                                 //***** MODULO REMOTATO $47 Carter superiore *******
Man 16
                %04600.5
                                Abilitazione mandrino 16
Man_17
                %Q4600.6
                                Abilitazione mandrino 17
                                                                                 // Estensione per gestione testa 30+6 mandrini
Man_18
                %04600.7
                                Abilitazione mandrino 18
Man_orx2
                        %04601.0
                                        Abilitazione mandrino orizzontale X2
                                                                                 //16 INPUT
                                        Abilitazione cuffia mandrini
Cuffia m
                        %04601.1
                                                                                 //
Ab twin5
                        %04601.2
                                        EO n.1 assetto 1 / Abilitazione el.5
                                                                                 //
                                                                                                          %I4700.0
Ab twin5 a
                        %04601.3
                                        EO n.1 assetto 2 / EO3 assetto 2
                                                                                                         %I4700.1
                                                                                 //
Unload
                %Q4601.4
                                Discesa gruppo scarico pezzi per piano
                                                                                 11
                                                                                                         %I4700.2
nesting
                                                                                 11
                                                                                                         %I4700.3
Ab twin1
                        %04601.5
                                        Abilitazione elettromandrino n.1
                                                                                 //
                                                                                                          %14700.4
                        %04601.6
Laser1
                                        Laser SX posizinamento piani/ventose
                                                                                 //
                                                                                                          %I4700.5
Laser2
                        %04601.7
                                        Laser DX posizinamento piani/ventose
                                                                                 11
                                                                                                         %I4700.6
//
                                                                                 11
                                                                                                         %14700.7
                                                                                 11
                                                                                                         %I4701.0
//***** MODULO REMOTATO $4F Carter superiore *******
                                                                                 11
                                                                                                         %I4701.1
// Gestione elettromandrini 3 4 6 7
                                                                                 //
                                                                                                         %I4701.2
//
                                                                                 //
                                                                                                         %I4701.3
//16 INPUT
                                                                                 11
                                                                                                         %I4701.4
                                                                                 11
                                                                                                         %I4701.5
//
Zero ms3
                                        Zero speed el. MS SCM 3
                                                                                 11
                                                                                                         %I4701.6
Saf_ms3
                %I4F00.1
                                Sicurezza el. MS SCM 3
                                                                                 //
                                                                                                         %I4701.7
Tir_ms4
                %I4F00.2
                                Tirante el. MS SCM 4
                                                                                 //
                                Sblocco el. MS SCM 4
                                                                                 //16 OUTPUT
Sbl ms4
                %I4F00.3
Zero_ms4
                        %T4F00.4
                                        Zero speed el. MS SCM 4
                                                                                 //
                                                                                                  %04700.0
Saf_ms4
                %I4F00.5
                                Sicurezza el. MS SCM 4
                                                                                 Man_19
                                                                                                                  Abilitazione mandrino 19
                %I4F00.6
                                Tirante el. MS SCM 6
                                                                                                  %04700.1
                                                                                                                  Abilitazione mandrino 20
Tir ms6
                                                                                 Man 20
Sbl ms6
                %I4F00.7
                                Sblocco el. MS SCM 6
                                                                                 Man 21
                                                                                                 %04700.2
                                                                                                                  Abilitazione mandrino 21
Zero ms6
                        %I4F01.0
                                        Zero speed el. MS SCM 6
Saf_ms6
                %I4F01.1
                                Sicurezza el. MS SCM 6
//
                        %I4F01.2
                                                                                 Man_22
                                                                                                  %04700.3
                                                                                                                  Abilitazione mandrino 22
Ok_twin4
                        %I4F01.3
                                        Sonda termica elettromandrino n.4
                                                                                 Man_23
                                                                                                  %04700.4
                                                                                                                  Abilitazione mandrino 23
                        %I4F01.4
                                        Sonda termica elettromandrino n.6
                                                                                 Man_24
                                                                                                 %04700.5
                                                                                                                  Abilitazione mandrino 24
Ok_twin6
                                                                                 Man_25
                        %I4F01.5
                                                                                                 %Q4700.6
                                                                                                                  Abilitazione mandrino 25
//
                                                                                 Man_26
                                                                                                  %04700.7
                                                                                                                  Abilitazione mandrino 26
                        %I4F01.6
11
                        %I4F01.7
                                                                                 Man_27
                                                                                                  %Q4701.0
                                                                                                                  Abilitazione mandrino 27
//
                                                                                 Man_28
                                                                                                 %Q4701.1
                                                                                                                  Abilitazione mandrino 28
//16 OUTPUT
                                                                                 Man 29
                                                                                                 %04701.2
                                                                                                                  Abilitazione mandrino 29
                                                                                                                  Abilitazione mandrino 30
//
                                                                                 Man_30
                                                                                                  %04701.3
                                                                                 Man orx3
                                                                                                          %04701.4
                                                                                                                          Abilitazione mandrino orizzontale X3
Ab twin3
                        %04F00.0
                                        Discesa gruppo elettromandrino n.3
Ab twin4
                        %04F00.1
                                        EO n.2 assetto 1 / Abilitazione el.4
                                                                                                          %04701.5
                                                                                                                          Abilitazione mandrino orizzontale X4
                                                                                 Man orx4
Ab_twin6
                        %04F00.2
                                        EO n.2 assetto 2 / Abilitazione el.6
                                                                                 Man_ory2
                                                                                                          %Q4701.6
                                                                                                                          Abilitazione mandrino orizzontale Y2
//
                        %04F00.3
                                                                                 //
                                                                                                          %04701.7
//
                                                                                 //
                        %04F00.4
11
                        %Q4F00.5
11
                        %Q4F00.6
                                                                                 //****** MODULO REMOTATO $48 Carter superiore *******
11
                        %Q4F00.7
                                                                                 // Testina supplementare 11/9 mandrini
11
                        %04F01.0
```

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```
//16 INPUT
                                                                                 Fc_av_v_r2
                                                                                                         %I4900.6
                                                                                                                          Fine corsa asse vector + (rapid2)
                                                                                 Em saf r2
                                                                                                         %14900.7
                                                                                                                          Sicurezza utensile elettromandrino
//
                                                                                 (rapid2)
//
                        %I4800.0
//
                        %I4800.1
                                                                                 Itir e r2
                                                                                                                          El. tirante (rapid2)
                                                                                                         %I4901.0
                        %I4800.2
                                                                                                                          El. posizione CU (rapid2)
//
                                                                                 Iem pcu r2
                                                                                                         %I4901.1
11
                        %I4800.3
                                                                                 Iem_p1_r2
                                                                                                         %I4901.2
                                                                                                                          El. posizione 1 (rapid2)
11
                        %I4800.4
                                                                                                         %I4901.3
                                                                                 //
11
                        %I4800.5
                                                                                 Speed 0 r2
                                                                                                         %I4901.4
                                                                                                                          El. 0_speed (rapid2)
//
                        %14800.7
                                                                                 //
                                                                                                         %I4901.5
//
                        %I4801.0
                                                                                 //
                                                                                                         %I4901.6
11
                        %I4801.1
                                                                                 //
                                                                                                         %I4901.7
11
                        %I4801.2
                                                                                 //
                                                                                 //16 OUTPUT
11
                        %I4801.3
11
                        %I4801.4
                                                                                 //
//
                        %I4801.5
                                                                                 Modulo 49
                                                                                                          %0493b.1
                                                                                                                          Abilitazione accesso modulo 49
11
                        %I4801.6
                                                                                                         %04900.0
                                                                                                                          Magazzino posizione OUT (rapid2)
                                                                                 Mcu out r2
11
                        %I4801.7
                                                                                 Mcu_in_r2
                                                                                                         %Q4900.1
                                                                                                                          Magazzino posizione IN (rapid2)
//
                                                                                 Mcu up r2
                                                                                                         %04900.2
                                                                                                                          Magazzino posizione UP (rapid2)
//16 OUTPUT
                                                                                 Mcu dn r2
                                                                                                         %04900.3
                                                                                                                          Magazzino posizione DOWN (rapid2)
                                                                                                         %04900.4
                                                                                                                          Sblocco utensile + soffiatore (rapid
                                                                                 Emcu_su_r2
//
Man suppl1
                        %04800.B
                                        Abilitazione mandrini supplementari
                                                                                 2)
Man_suppl2
                        %04801.B
                                        Abilitazione mandrini supplementari
                                                                                 //
                                                                                                         %04900.5
Man_s_1
                %Q4800.0
                                Abilitazione mandrino supplementare 1
                                                                                 Emcu_pcu_r2
                                                                                                         %04900.6
                                                                                                                          El. posizione CU (rapid2)
                %04800.1
                                Abilitazione mandrino supplementare 2
                                                                                 Emcu_p1_r2
                                                                                                         %04900.7
                                                                                                                          El. posizione 1+ aspirazione (rapid2
Man_s_2
Man_s_3
                %04800.2
                                Abilitazione mandrino supplementare 3
                %04800.3
                                Abilitazione mandrino supplementare 4
                                                                                 Cuff cu r2
                                                                                                         %04901.0
                                                                                                                          Cuffie posizione CU (rapid2)
Man_s_4
                %Q4800.4
                                Abilitazione mandrino supplementare 5
                                                                                 Cuff_p1_r2
                                                                                                         %Q4901.1
                                                                                                                          Cuffie posizione 1 (rapid2)
Man_s_5
Man_s_6
                %Q4800.5
                                Abilitazione mandrino supplementare 6
                                                                                 Cuff_p2_r2
                                                                                                         %Q4901.2
                                                                                                                          Cuffie posizione 2 (rapid2)
Man_s_7
                %04800.6
                                Abilitazione mandrino supplementare 7
                                                                                 Cuff p3 r2
                                                                                                         %04901.3
                                                                                                                          Cuffie posizione 3 (rapid2)
                                Abilitazione mandrino supplementare 8
Man_s_8
                %04800.7
                                                                                 Soffio r2
                                                                                                         %04901.4
                                                                                                                          Soffiatore per testine
                                Abilitazione mandrino supplementare 9
Man_s_9
                %Q4801.0
                                                                                                         %Q4901.5
                                                                                 //
                                        Abilitazione mandrino supplementare
                                                                                 11
Man s 10
                        %04801.1
                                                                                                         %04901.6
10
                                                                                 //
                                                                                                         %04901.7
Man_s_11
                        %04801.2
                                        Abilitazione mandrino supplementare
                                                                                 //***** MODULO REMOTATO $4A Armadio elettrico *******
11
Man so x1
                        %04801.3
                                        Abilitazione mandrino or.
                                                                                 // Gestione 3 e 4 inverter
 supplementare X1
                                                                                 //
Man so x2
                        %Q4801.4
                                        Abilitazione mandrino or.
 supplementare X2
Man_so_x3
                        %04801.5
                                        Abilitazione mandrino or.
                                                                                 //16 INPUT
 supplementare X3
                                                                                 //
//
                        %04801.6
                                                                                 Emer_inv3
                                                                                                         %I4A00.0
                                                                                                                          Emergenza inverter n.3
Cuff ms
                %04801.7
                                Cuffia mandrini supplementare
                                                                                 Freq 0 inv3
                                                                                                         %I4A00.1
                                                                                                                          Frequenza 0 inverter n.3
                                                                                 End_acc_inv3
                                                                                                 %I4A00.2
                                                                                                                 Fine rampa inverter n.3
//****** MODULO REMOTATO $49 Carter superiore *******
                                                                                 Emer inv4
                                                                                                         %I4A00.3
                                                                                                                         Emergenza inverter n.4
// Gestione magazzino Rapid 10/14 associato a el. n.2
                                                                                 Freq 0 inv4
                                                                                                         %I4A00.4
                                                                                                                          Frequenza 0 inverter n.4
                                                                                                 %I4A00.5
                                                                                                                 Fine rampa inverter n.4
//
                                                                                 End_acc_inv4
//16 INPUT
                                                                                 //
                                                                                                         %I4A00.6
                                                                                                         %I4A00.7
                                                                                 //
Imcu_out_r2
                        %14900.0
                                        Magazzino posizione OUT (rapid2)
                                                                                 //
                                                                                                         %I4A01.0
Imcu in r2
                        %I4900.1
                                        Magazzino posizione IN (rapid2)
                                                                                 //
                                                                                                         %I4A01.1
                                        Magazzino posizione UP (rapid2)
Imcu up r2
                        %14900.2
                                                                                 //
                                                                                                         %I4A01.2
Imcu_dn_r2
                        %I4900.3
                                        Magazzino posizione DOWN (rapid2)
                                                                                 //
                                                                                                         %I4A01.3
Icuff_cu_r2
                        %I4900.4
                                        Cuffia elettromandrino posizione di
                                                                                 //
                                                                                                         %I4A01.4
cambio ut. (rapid2)
                                                                                 //
                                                                                                         %I4A01.5
Fc_in_v_r2
                        %14900.5
                                        Fine corsa asse vector - (rapid2)
                                                                                 //
                                                                                                         %I4A01.6
```

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```
//
                        %I4A01.7
                                                                                Rulliere_f
                                                                                                        %Q4B01.3
                                                                                                                         Sol. rulliere aiuto carico area F/J
                                                                                Rulliere q
                                                                                                        %O4B01.4
                                                                                                                         Sol, rulliere aiuto carico area G/K
//16 OUTPUT
                                                                                Rulliere h
                                                                                                        %O4B01.5
                                                                                                                         Sol. rulliere aiuto carico area H/L
                                                                                //
                                                                                                        %04B01.6
                %O4A00.0
                                Abilitazione inverter n.3
Inv3 on
                                                                                //
                                                                                                        %04B01.7
Inv3_ccw
                        %O4A00.1
                                        Abilitazione CCW inverter n.3
                                                                                //****** MODULO REMOTATO $4C Carter anteriore *******
Res sel3
                        %O4A00.2
                                        Reset selezione elettromandrini INV3
                                Abilitazione inverter n.4
Inv4 on
                %O4A00.3
                                                                                // Gestione piano di lavoro automatico Autopad
                                        Abilitazione CCW inverter n.4
Inv4_ccw
                        %04A00.4
Res sel4
                        %04A00.5
                                        Reset selezione elettromandrini INV4
                                                                                //16 INPUT
//
                        %Q4A00.6
                                                                                //
//
                        %04A00.7
                                                                                Auto man
                                                                                                        %I4C00.0
                                                                                                                         Selettore piani/ventose automatiche
//
                        %04A01.0
                                                                                /manuali
//
                        %04A01.1
                                                                                                        %I4C00.1
//
                        %O4A01.2
                                                                                //
                                                                                                        %I4C00.2
//
                        %04A01.3
                                                                                                        %I4C00.3
                                                                                //
11
                        %Q4A01.4
                                                                                11
                                                                                                        %I4C00.4
11
                        %04A01.5
                                                                                11
                                                                                                        %I4C00.5
11
                        %04A01.6
                                                                                //
                                                                                                        %I4C00.6
                        %O4A01.7
11
                                                                                //
                                                                                                        %I4C00.7
                                                                                11
                                                                                                        %I4C01.0
//***** MODULO REMOTATO $4B Carter anteriore *******
                                                                                //
                                                                                                        %I4C01.1
// Gestione 8 aree automatiche / Gestione macchina Twin 8 aree
                                                                                //
                                                                                                        %I4C01.2
                                                                                                        %I4C01.3
//
                                                                                //
//16 INPUT
                                                                                //
                                                                                                        %I4C01.4
                                                                                                        %I4C01.5
//
                                                                                //
Vacu_e
                %I4B00.0
                                Vacuostato area E/I
                                                                                11
                                                                                                        %I4C01.6
Vacu_f
                       %I4B00.1
                                        Vacuostato area F/J
                                                                                //
                                                                                                        %I4C01.7
Vacu_g
                %I4B00.2
                                Vacuostato area G/K
                                                                                //
Vacu h
                %I4B00.3
                                Vacuostato area H/L
                                                                                //16 OUTPUT
                %I4B00.4
                                Blocco/sblocco area E/I
Lock_e
                                                                                //
Lock f
                       %I4B00.5
                                        Blocco/sblocco area F/J
                                                                                Sb pia 1
                                                                                                        %O4C00.0
                                                                                                                         Sbloccaggio strette piano 1
Lock_g
                %T4B00.6
                                Blocco/sblocco area G/K
                                                                                Sb_pia_2
                                                                                                        %Q4C00.1
                                                                                                                         Sbloccaggio strette piano 2
                                                                                                        %Q4C00.2
Lock_h
                %I4B00.7
                                Blocco/sblocco area H/L
                                                                                Sb_pia_3
                                                                                                                         Sbloccaggio strette piano 3
                                                                                Sb pia 4
                                                                                                        %O4C00.3
//
                        %I4B01.0
                                                                                                                         Sbloccaggio strette piano 4
                                                                                Sb pia 5
//
                        %I4B01.1
                                                                                                        %O4C00.4
                                                                                                                         Sbloccaggio strette piano 5
//
                        %I4B01.2
                                                                                Sb pia 6
                                                                                                        %04C00.5
                                                                                                                         Sbloccaggio strette piano 6
//
                        %I4B01.3
                                                                                Sb_pia_7
                                                                                                        %Q4C00.6
                                                                                                                         Sbloccaggio strette piano 7
//
                        %I4B01.4
                                                                                Sb_pia_8
                                                                                                        %04C00.7
                                                                                                                         Sbloccaggio strette piano 8
11
                        %I4B01.5
                                                                                Sb_pia_9
                                                                                                        %04C01.0
                                                                                                                         Sbloccaggio strette piano 9
                        %I4B01.6
                                                                                Sb_pia_10
11
                                                                                                        %04C01.1
                                                                                                                         Sbloccaggio strette piano 10
                                                                                Sb_ven_ab
11
                        %I4B01.7
                                                                                                        %Q4C01.2
                                                                                                                         Sbloccaggio strette ventose area AB
11
                                                                                Sb ven cd
                                                                                                        %O4C01.3
                                                                                                                         Sbloccaggio strette ventose area CD
//16 OUTPUT
                                                                                Sb ven cen
                                                                                                        %Q4C01.4
                                                                                                                         Sbloccaggio strette ventose area
//
                                                                                 centrale
Bdf e
                        %O4B00.0
                                        Discesa BDF area E/I
                                                                                                        %04C01.5
                        %04B00.1
                                        Discesa BDF area F/J
                                                                                                        %O4C01.6
Bdf f
                                                                                //
Bdf_g
                        %O4B00.2
                                        Discesa BDF area G/K
                                                                                                        %04C01.7
                                                                                //
Bdf h
                        %O4B00.3
                                        Discesa BDF area H/L
                                                                                //***** MODULO REMOTATO $4D Carter superiore *****
Bdf f1
                        %O4B00.4
                                        Discesa BDF centrale F/J
                              Discesa BDF centrale G/K
Bdf q1
                %O4B00.5
                                                                                // Gestione magazzino Rapid 6/8/12 associato a el. n.1
Ventose e
                        %04B00.6
                                        Sollevamento ventose area E/I
                                                                                //
                                                                                //16 INPUT
Ventose_f
                        %04B00.7
                                        Sollevamento ventose area F/J
Ventose_g
                        %O4B01.0
                                        Sollevamento ventose area G/K
                                                                                //
Ventose h
                        %O4B01.1
                                        Sollevamento ventose area H/L
                                                                                //
                                                                                                        %I4D00.0
Rulliere e
                        %O4B01.2
                                        Sol. rulliere aiuto carico area E/I
                                                                                Clock r1
                                                                                                        %I4D00.1
                                                                                                                         Conteggio magazzino 1
```

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```
%T4D00.2
                                        Posizione magazzino 1
                                                                                                        %I4E01.5
Posiz_r1
Orig rl
                %I4D00.3
                                Taratura magazzino 1
                                                                                //
                                                                                                        %I4E01.6
                                                                                                        %I4E01.7
                        %I4D00.4
                                                                                //
Imag in r1
                        %I4D00.5
                                                                                //
                                        Magazzino 1 posizione IN
                        %I4D00.6
                                        Magazzino 1 posizione OUT
                                                                                //16 OUTPUT
Imag out r1
Cu ell r6
                        %T4D00.7
                                        Cuffia posizione CU (cuffia
                                                                                //
motorizzata alta)
                                                                                M_in_r2
                                                                                                 %O4E00.0
                                                                                                                 Magazzino 2 IN
Ell pcu r6
                        %I4D01.0
                                        El. 1 posizione CU on
                                                                                M out r2
                                                                                                         %O4E00.1
                                                                                                                         Magazzino 2 OUT
                                                                                                         %O4E00.2
El1_pcu_off
                        %I4D01.1
                                        El. 1 posizione CU off
                                                                                Cuff el2 r6
                                                                                                                         Sollevamento cuffia rapid 2
Ell pl on
                        %I4D01.2
                                        El. 1 posizione lavoro on
                                                                                El2 bl
                                                                                                         %O4E00.3
                                                                                                                         Elettromandrino 2 Blocco/Sblocco
El1_p1_off
                        %I4D01.3
                                        El. 1 posizione lavoro off
                                                                                E12_p1
                                                                                                        %Q4E00.4
                                                                                                                         Elettromandrino 2 posizione lavoro 1
Fc0 cf
                        %T4D01.4
                                        Cuffia motorizzata (origine)
                                                                                10mm
Fccf ck
                %I4D01.5
                                Cuffia motorizzata (conteggio)
                                                                                E12 p2
                                                                                                         %O4E00.5
                                                                                                                         Elettromandrino 2 posizione
                                        Fresa disco n.2 posizione 0°
                                                                                 estrazione ut. -90mm
Disco2 0
                        %I4D01.6
Disco2 90
                                        Fresa disco n.2 posizione 90°
                        %I4D01.7
                                                                                Freno r2
                                                                                                         %O4E00.6
                                                                                                                         Freno asse vector
                                                                                                         %O4E00.7
//16 OUTPUT
                                                                                //
                                                                                                        %Q4E01.0
//
                                                                                //
                                                                                                        %O4E01.1
M in r1
                %O4D00.0
                                Magazzino 1 IN
                                                                                //
                                                                                                         %O4E01.2
                        %O4D00.1
                                                                                                         %O4E01.3
M out r1
                                        Magazzino 1 OUT
                                                                                //
Cuff ell r6
                        %O4D00.2
                                        Sollevamento cuffia
                                                                                11
                                                                                                        %04E01.4
Ell bl
                        %O4D00.3
                                        Elettromandrino 1 Blocco/Sblocco
                                                                                //
                                                                                                         %O4E01.5
El1_p1
                        %04D00.4
                                        Elettromandrino 1 posizione lavoro
                                                                                //
                                                                                                         %O4E01.6
El1 p2
                        %04D00.5
                                        Elettromandrino 1 posizione CU
                                                                                11
                                                                                                        %O4E01.7
Freno ar6
                        %04D00.6
                                        Freno asse vector
                        %04D00.7
                                                                                //***** MODULO REMOTATO $50 Carter Inferiore
//
//
                        %04D01.0
                                                                                // Gestione morsetti
//
                        %Q4D01.1
11
                        %O4D01.2
                                                                                //16 INPUT
                                                                                //
Or_dis2_90
                        %Q4D01.3
                                        Abilitazione fresa disco posizione 9
                                                                                                        %I5000.0
                                                                                Apres_ab
                                                                                                                         Selezione alta pressione area AB
Ab dis2
                                                                                Bpres ab
                                                                                                        %I5000.1
                                                                                                                         Selezione bassa pressione area AB
                %O4D01.4
                                Abilitazione discesa fresa disco
Or dis2 0
                        %04D01.5
                                        Abilitazione fresa disco posizione
                                                                                Apres_cd
                                                                                                        %T5000.2
                                                                                                                         Selezione alta pressione area CD
                                                                                Bpres_cd
                                                                                                        %I5000.3
                                                                                                                         Selezione bassa pressione area CD
                                                                                Okpres ab
                                                                                                        %I5000.4
                                                                                                                         Presenza alta pressione area AB
Freno br6
                        %04D01.6
                                        Freno asse B
                        %O4D01.7
                                                                                                        %I5000.5
//
                                                                                Okpres cd
                                                                                                                         Presenza alta pressione area CD
                                                                                Cma ab
                                                                                                %I5000.6
                                                                                                                 Chiusura morsetti anteriori area AB
//***** MODULO REMOTATO $4E Carter superiore *****
                                                                                Ama_ab
                                                                                                %I5000.7
                                                                                                                 Apertura morsetti anteriori area AB
// Gestione magazzino Rapid 6/8/12 associato a el. n.2
                                                                                Cmp_ab
                                                                                                %I5001.0
                                                                                                                 Chiusura morsetti posteriori area AB
//
                                                                                Amp_ab
                                                                                                %I5001.1
                                                                                                                 Apertura morsetti posteriori area AB
//16 INPUT
                                                                                Cma cd
                                                                                                %I5001.2
                                                                                                                 Chiusura morsetti anteriori area CD
                                                                                Ama_cd
                                                                                                %I5001.3
                                                                                                                 Apertura morsetti anteriori area CD
//
//
                        %I4E00.0
                                                                                Cmp cd
                                                                                                %I5001.4
                                                                                                                 Chiusura morsetti posteriori area CD
Clock_r2
                        %T4E00.1
                                        Conteggio magazzino 2
                                                                                Amp_cd
                                                                                                %I5001.5
                                                                                                                 Apertura morsetti posteriori area CD
                                        Posizione magazzino 2
                                                                                                        %I5001.6
                                                                                                                        Selezione morsetti alti arera AB
Posiz r2
                        %I4E00.2
                                                                                Ab_pn
Orig_r2
                              Taratura magazzino 2
                                                                                 pneumatico
                %I4E00.3
                                                                                                        %T5001.7
                                                                                                                         Selezione morsetti alti arera CD
//
                        %I4E00.4
                                                                                Cd pn
Imag in r2
                        %I4E00.5
                                                                                 pneumatico
                                        Magazzino 2 posizione IN
Imag out r2
                        %I4E00.6
                                        Magazzino 2 posizione OUT
Cu_el2_r6
                        %I4E00.7
                                        Cuffia el.2 posizione di cambio ut.
                                                                                //16 OUTPUT
(rapid6)
                                                                                //
El2 pcu r6
                        %I4E01.0
                                        El. 2 posizione cambio ut.
                                                                                On pres ab
                                                                                                         %05000.0
                                                                                                                         Abilitazione alta pressione area AB
                        %I4E01.1
                                                                                Off_pres_ab
                                                                                                        %Q5000.1
//
                                                                                                                         Abilitazione bassa pressione area AB
//
                        %I4E01.2
                                                                                On_pres_cd
                                                                                                        %05000.2
                                                                                                                         Abilitazione alta pressione area CD
//
                        %I4E01.3
                                                                                Off_pres_cd
                                                                                                        %05000.3
                                                                                                                         Abilitazione bassa pressione area CD
                        %I4E01.4
                                                                                                                         Chiusura morsetti anteriori area AB
//
                                                                                On_ma_ab
                                                                                                        %05000.4
```

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```
Off_ma_ab
                       %05000.5
                                       Apertura morsetti anteriori area AB
On_mp_ab
                       %05000.6
                                       Chiusura morsetti posteriori area AB
                                                                               Vent_pdl_std
                                                                                               %I5200.b
                                                                                                               Ventosa agganciata PDL standard
                                       Apertura morsetti posteriori area AB
Off_mp_ab
                       %Q5000.7
On ma cd
                                       Chiusura morsetti anteriori area CD
                                                                               Vent pdl 1
                       %05001.0
                                                                                               %I5200.0
                                                                                                               Ventosa agganciata PDL1
Off ma cd
                                       Apertura morsetti anteriori area CD
                                                                               Vent pdl 2
                                                                                               %I5200.1
                       %05001.1
                                                                                                               Ventosa agganciata PDL2
                                       Chiusura morsetti posteriori area CD
                                                                               Vent_pdl_3
                                                                                               %I5200.2
                                                                                                               Ventosa agganciata PDL3
On_mp_cd
                       %Q5001.2
Off_mp_cd
                       %05001.3
                                       Apertura morsetti posteriori area CD
                                                                               Vent_pdl_4
                                                                                               %I5200.3
                                                                                                               Ventosa agganciata PDL4
                                                                                               %I5200.4
Bdf mab
                %05001.4
                               Salita bdf per morsetti area AB
                                                                               Vent pdl 5
                                                                                                               Ventosa agganciata PDL5
Bdf_mcd
                %05001.5
                               Salita bdf per morsetti area CD
                                                                               Vent_pdl_6
                                                                                               %I5200.5
                                                                                                               Ventosa agganciata PDL6
Seg_a_ab
                       %05001.6
                                       Segnalazione alta pressione area AB
                                                                               Vent_pdl_7
                                                                                               %I5200.6
                                                                                                               Ventosa agganciata PDL7
                                                                               Vent_pdl_8
                                                                                               %I5200.7
                                                                                                               Ventosa agganciata PDL8
Seg_a_cd
                       %05001.7
                                       Segnalazione alta pressione area CD
                                                                               Pdl_ab
                                                                                               %I5201.0
                                                                                                               Piano agganciato area AB
                                                                               Pdl_cd
                                                                                               %I5201.1
                                                                                                               Piano agganciato area CD
//****** MODULO REMOTATO $51 Armadio elettrico
                                                                                                               Start setup area A
                                                                               Setup_a
                                                                                               %I5201.2
// Gestione magazzino Tool-Room posteriore 12 posti
                                                                               Setup b
                                                                                               %I5201.3
                                                                                                               Start setup area B
                                                                                               %I5201.4
                                                                               Setup c
                                                                                                               Start setup area C
//16 INPUT
                                                                               Setup_d
                                                                                               %I5201.5
                                                                                                               Start setup area D
                                                                               V bl b
                                                                                               %I5201.6
                                                                                                               Ventose bloccate B (piano TV)
Clock tr12
                       %I5100.0
                                       Conteggio tool room
                                                                               V_bl_c
                                                                                               %I5201.7
                                                                                                               Ventose bloccate C (piano TV)
Posiz_tr12
                       %I5100.1
                                       Posizione tool room
                                                                               //
Orig tr12
                       %I5100.2
                                       Origine tool room
                                                                               Cil std
                                                                                               %05200.b
                                                                                                               Abil. cilindro aggancio ventose PDL standard
I_up_tr12
                       %I5100.3
                                       Tool room UP
                                                                               Cil pv
                                                                                               %Q5201.b
                                                                                                               Abil. cilindro aggancio piani e blocco
I_dw_tr12
                       %I5100.4
                                       Tool room DOWN
                                                                                ventose
                                       Tool room SX
I_lh_tr12
                       %I5100.5
                                       Tool room DX
                                                                               Cil_pdl_1
I dh tr12
                       %I5100.6
                                                                                                       %05200.0
                                                                                                                       Abil. cilindro aggancio ventose PDL
I re tr12
                       %I5100.7
                                       Tool room Y+
I_fr_tr12
                       %I5101.0
                                       Tool room Y-
                                                                               Cil_pdl_2
                                                                                                       %Q5200.1
                                                                                                                       Abil. cilindro aggancio ventose PDL
               %I5101.1
Open_tr
                               Apertura sportello
                                                                               Cil_pdl_3
//
                       %I5101.2
                                                                                                       %05200.2
                                                                                                                       Abil. cilindro aggancio ventose PDL
//
                       %I5101.3
11
                       %I5101.4
                                                                               Cil_pdl_4
                                                                                                       %Q5200.3
                                                                                                                       Abil. cilindro aggancio ventose PDL
11
                       %I5101.5
11
                       %T5101.6
                                                                               Cil_pdl_5
                                                                                                       %Q5200.4
                                                                                                                       Abil. cilindro aggancio ventose PDL
11
                       %I5101.7
                                                                               Cil_pdl_6
//
                                                                                                       %05200.5
                                                                                                                       Abil. cilindro aggancio ventose PDL
//16 OUTPUT
                                                                               Cil_pdl_7
                                                                                                       %Q5200.6
                                                                                                                       Abil. cilindro aggancio ventose PDL
0_up_tr12
                       %Q5100.0
                                       Tool room up
0_dw_tr12
                       %05100.1
                                       Tool room down
                                                                               Cil_pdl_8
                                                                                                       %05200.7
                                                                                                                       Abil. cilindro aggancio ventose PDL
Omag_post
                       %05100.2
                                       Tool room Y+ posteriore
                                       Tool room Y- anteriore
Omag_ant
                       %05100.3
                                                                               Cil_pdl_ab
                                                                                               %05201.0
                                                                                                               Abil. cilindro aggancio area AB
Open_troff
                       %Q5100.4
                                       Chiusura protezione utensili tr12
                                                                               Cil_pdl_cd
                                                                                               %Q5201.1
                                                                                                               Abil. cilindro aggancio area CD
                       %05100.5
                                       Apertura protezione utensili tr12
                                                                               Sb vent a
                                                                                               %05201.2
                                                                                                               Blocco/sblocco ventose area A
Open tron
                                                                               Sb_vent_b
                                                                                               %Q5201.3
                                                                                                               Blocco/sblocco ventose area B
Soffio tr12
                       %Q5100.6
                                       Soffiatore
                                                                               Sb_vent_c
                                                                                               %Q5201.4
                                                                                                               Blocco/sblocco ventose area C
                       %05100.5
                                                                               Sb vent d
                                                                                               %05201.5
                                                                                                               Blocco/sblocco ventose area D
                       %Q5101.0
                                                                                                                       sblocco pdl area AB
//
                                                                               Sb_pdl_ab
                                                                                                       %Q5201.6
11
                       %05101.1
                                                                               Sb pdl cd
                                                                                                       %05201.7
                                                                                                                       sblocco pdl area CD
11
                                                                               //Man aut
                                                                                                       %05201.7
                                                                                                                       Abilitazione PDL MAN/AUT
                       %05101.2
//
                       %Q5101.3
//
                       %05101.4
                                                                               //***** MODULO REMOTATO $53 Armadio elettrico
                       %05101.5
                                                                               // Gestione magazzino Tool-Room posteriore 24 posti
//
                       %Q5101.6
//
                       %05101.7
                                                                               //16 INPUT
                                                                               //
R24 drok
                                                                                                       %I5300.0
                                                                                                                       Drive ok asse Keb
```

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```
R24_fcspo
                       %I5300.1
                                       FC sportello aperto
                                                                               //
                                                                                               %I5401.6
R24fcspc
                       %15300.2
                                       FC sportello chiuso
                                                                               //
                                                                                               %I5401.7
                                       Azionamento Keb in posizione
R24_inpos
                       %I5300.3
                                                                               //
R24 refok
                                       Azionamento Keb taratura ok
                                                                              Cil_add
                       %I5300.4
                                                                                               %05400.b
                                                                                                              Abil. cilindro aggancio ventose PDL
                                                                               aggiuntivi
R24 fcout
                                       FC tool room posizione Y-
                       %I5300.5
R24_fcin
                       %T5300.6
                                       FC tool room posizione Y+
R24_fot
               %I5300.7
                               Fotocellula presenza utensile
                                                                               Cil_pdl_9
                                                                                                      %05400.0
                                                                                                                      Abil. cilindro aggancio ventose PDL
R24 fcup
                       %I5301.0
                                       FC tool room posizione alto
                                                                                               %05400.1
R24 fcdn
                       %I5301.1
                                       FC tool room posizione basso
                                                                               Cil_pdl_10
                                                                                                              Abil. cilindro aggancio ventose PDL 10
                                                                               Cil pdl 11
                                                                                               %05400.2
                       %I5301.2
                                                                                                              Abil. cilindro aggancio ventose PDL 11
//
11
                       %I5301.3
                                                                               Cil_pdl_12
                                                                                               %Q5400.3
                                                                                                              Abil. cilindro aggancio ventose PDL 12
//
                       %I5301.4
                                                                               //
                                                                                               %05400.4
                                                                                                              non usare
11
                       %I5301.5
                                                                               //
                                                                                               %05400.5
                                                                                                              non usare
//
                       %I5301.6
                                                                               //
                                                                                               %Q5400.6
                                                                                                              non usare
//
                       %I5301.7
                                                                               //
                                                                                               %05400.7
                                                                                                              non usare
11
                                                                                               %05401.0
                                                                               //
//16 OUTPUT
                                                                               11
                                                                                               %Q5401.1
                                                                               11
                                                                                               %05401.2
R24 evout
                       %Q5300.0
                                       Tool - room posizione Y+ (posteriore
                                                                               //
                                                                                               %05401.3
                                                                                               %05401.4
                                                                               //
                                                                               11
                                                                                               %05401.5
R24 evin
                       %05300.1
                                       Tool - room posizione Y- (anteriore)
R24 start
                       %05300.2
                                       Start movimento
                                                                               //
                                                                                               %05401.6
R24_evair
                       %Q5300.3
                                       EV soffiatore pulizia
                                                                               //
                                                                                               %05401.7
R24 spon
                                       EV apertura portello
                       %05300.4
                                       Scambio dati fine-corsa taratura /
                                                                               //***** MODULO REMOTATO $56 Carter anteriore *******
R24enrif
                       %05300.5
dati 03
                                                                               // Gestione listelli (basso/alto vuoto)
R24_o1
               %Q5300.6
                               Scambio dati 01
                                                                               //
               %Q5300.7
                               Scambio dati 02
R24_o2
                                                                               //16 INPUT
R24_o3
               %05301.0
                               Scambio dati 03
                                                                               //
                               Scambio dati 04
R24_o4
               %05301.1
                                                                               Sel_list_ab
                                                                                                      %I5600.0
                                                                                                                      Selettore lavorazione listelli area
R24_o5
                               Scambio dati 05
                                                                               AB (armadio elettrico)
               %Q5301.2
                                       EV chiusura portello
R24 spoff
                       %05301.3
                                                                               Sel list cd
                                                                                                                      Selettore lavorazione listelli area
                                                                                                      %I5600.1
R24 evup
                       %Q5301.4
                                       Tool room posizione alto
                                                                               CD (armadio elettrico)
R24_evdn
                       %Q5301.5
                                       Tool room posizione basso
                                                                               //
                                                                                                      %I5600.2
                                                                                                      %I5600.3
Asp 1
                       %05301.6
                                       EV aspirazione 1 (X5)
                                                                               //
Asp_2
                       %05301.7
                                       EV aspirazione 2 (X5)
                                                                               //
                                                                                                      %15600.4
//
                                                                               //
                                                                                                      %I5600.5
                                                                               11
                                                                                                      %I5600.6
//
                                                                                                      %15600.7
//
                                                                               11
                                                                                                      %I5601.0
Vent_pdl_add
               %I5400.b
                               Ventosa agganciata PDL aggiuntivi
                                                                               //
                                                                                                      %I5601.1
                                                                               //
                                                                                                      %I5601.2
//
Vent pdl 9
               %I5400.0
                               Ventosa agganciata PDL9
                                                                               //
                                                                                                      %I5601.3
Vent_pdl_10
               %I5400.1
                               Ventosa agganciata PDL10
                                                                               11
                                                                                                      %I5601.4
Vent_pdl_11
               %I5400.2
                               Ventosa agganciata PDL11
                                                                               //
                                                                                                      %I5601.5
Vent pdl 12
               %I5400.3
                               Ventosa agganciata PDL12
                                                                               //
                                                                                                      %I5601.6
               %I5400.4
//
                               non usare
                                                                               //
                                                                                                      %I5601.7
11
               %I5400.5
                               non usare
                                                                               //
11
               %I5400.6
                                                                               //16 OUTPUT
                               non usare
//
               %I5400.7
                               non usare
                                                                               //
11
               %I5401.0
                                                                               Bdf0_mr56
                                                                                                       %05600.B
                                                                                                                      Discesa battute
                                                                               Bdf1 mr56
                                                                                                                      Discesa battute
//
               %I5401.1
                                                                                                       %05601.B
                                                                               Ab low a
                                                                                                      %Q5600.0
                                                                                                                      Abilitazione basso vuoto area A
//
               %I5401.2
                                                                               Ab_low_b
11
               %I5401.3
                                                                                                      %Q5600.1
                                                                                                                      Abilitazione basso vuoto area B
11
               %I5401.4
                                                                               Ab_low_c
                                                                                                      %Q5600.2
                                                                                                                      Abilitazione basso vuoto area C
               %I5401.5
                                                                               Ab_low_d
                                                                                                      %05600.3
                                                                                                                      Abilitazione basso vuoto area D
```

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```
Bdf_a_3
               %Q5600.4
                               Salita BDF area A 3 fila
Bdf_b_3
               %Q5600.5
                               Salita BDF area B 3 fila
Bdf_c_3
               %Q5600.6
                               Salita BDF area C 3 fila
Bdf_d_3
               %Q5600.7
                               Salita BDF area D 3 fila
                                       Salita BDF area Al 3 fila
Bdf_b1_3
                       %Q5601.0
Bdf_c1_3
                       %Q5601.1
                                       Salita BDF area B1 3 fila
                       %Q5601.2
//
//
                       %Q5601.3
//
                       %Q5601.4
//
                       %Q5601.5
//
                       %Q5601.6
                       %Q5601.7
11
11
//non usare: per semplificare la scrittura del PLC attualmente si verifica l
'intero byte
//prima di utilizzare i bit con la nota "non usare" modificare il PLC
```

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```
Reset_inv
                                                                                                %04000.6 Reset inverter generico
                                                                                           %04000.7 Abilitazione inverter n.1
// FILE NAME : 800 NEST.xsy
                                                                            Invl on
// DESCRIZIONE : Input Output fisici
                                                                                           %04001.0 Abilitazione CCW inverter n.1
                                                                            Inv1 ccw
//----
                                                                            Inv2 on
                                                                                           %04001.1 Abilitazione inverter n.2
                                                                                      %Q4001.2 Abilitazione CCW inverter n.2
                                                                            Inv2 ccw
#include [simboli.lib] E30000.XSY
                                                                            Direz_r1
                                                                                                %04001.3
                                                                                                                 Direzione rapid 6 n.1
                                                                            Stop_r1
#include [simboli.lib] ES CN.XSY
                                                                                           %Q4001.4 Stop rapid 6 n.1
#include [simboli.lib] ES_GR1.XSY
                                                                            Start r1
                                                                                                  %04001.5
                                                                                                                  Start rapid 6 n.1
#include [simboli.lib] ES_GR2.XSY
                                                                            S1_posoff
                                                                                                  %04001.6
                                                                                                                  Stop movimento asse seriale (testina
#include [simboli.lib] ES GR3.XSY
                                                                            11 in Y)
#include [simboli.lib] FUNZM.XSY
                                                                            Rot_cer
                                                                                          %04001.7
                                                                                                       Rotazione testina cerniere / 9 mandrini
#include [simboli.lib] MECHATRO.XSY
                                                                            //****** MODULO REMOTATO $41 Armadio elettrico *******
#include [simboli.lib] MEM_M.XSY
#include [simboli.lib] MEM_MSG.XSY
                                                                            //
#include [simboli.lib] MEM V.XSY
                                                                            //16 INPUT
#include [simboli.lib] MEM V1.XSY
                                                                            //
#include [simboli.lib] MEM_V2.XSY
                                                                            Drok_ser
                                                                                           %I4100.0
                                                                                                               Drive ok asse seriale (testina 11 in
#include [simboli.lib] TOOL DIN.XSY
                                                                           Inpos_l %I4100.1 Asse seriale in posizione (testina 11 in Y) Sel_morab %I4100.2 Selettore Morsetti/Ventose area AB (
#include [simboli.lib] XILOG3.XSY
#include [simboli.lib] PIGNA S.XSY
                                                                                                                 Selettore Morsetti/Ventose area AB (
                                                                            =0 Ventose =1 Morsetti)
// VARIABILI INGRESSO / USCITA
                                                                            Sel morcd
                                                                                                  %T4100.3
                                                                                                                  Selettore Morsetti/Ventose area CD (
                                                                            =0 Ventose =1 Morsetti)
                                                                           //***** MODULO REMOTATO $40 Armadio elettrico *******
//16 INPUT
//
Pres_el1
             %I4000.0
                                Pressostato refrigeratore el. 11kw n
. 1
                                                                            Freq 0 inv2
                                                                                                %I4101.1
                                                                                                                 Frequenza 0 inverter n.2
               %I4000.1 Pressostato refrigeratore el. 11kw n
                                                                            End_acc_inv2 %I4101.2 Fine rampa inverter n.2
Pres el2
                                                                            Setting %I4101.3
                                                                                                        Selettore SETTING (armadio elettrico)
. 2
          %I4000.2 Ventose bloccate AB (piano TV)
%I4000.3 Ventose bloccate CD (piano TV)
V bl ab
                                                                                               %I4101.4
                                                                            //
                                                                                          %I4101.5
%I4101.6
                                                                            Tapp_cen_ok
V bl cd
                                                                                                                 Tappeto centrale ok
               %I4000.4
                                     Drive ok assi dc (Axor)
Drv_ok_dc
                                                                            Tapp_ab_ok
                                                                                                                 Tappeti area AB ok
                                                                                                  %I4101.7
                    %I4000.5
                                     Verifica rotazine fresa disco /
                                                                            Tapp cd ok
Check dm
                                                                                                                 Tappeti area CD ok
testa mandrini principale
Emer_gen %14000.6
                                                                            //16 OUTPUT
                                     Emergenza generale
Emer_ter
                      %I4000.7
                                     Emergenza magnetormici
Emer_ter %14000.7
Emer_inv1 %14001.0
Freq_0_inv1 %14001.1
                                                                            //
                                                                                         %Q413B.0 Watchdog
%Q4100.0 Watch_dog (%Q413B.0)
%Q4100.1 Accensione macchina
                                     Emergenza inverter n.1
                                                                            Watchdog
                                     Frequenza 0 inverter n.1
                                                                            Watch_dog
                                                                          Watch_dog
Mstop %Q4100.1 Accensione macchina
El_1_on %Q4100.2 Rotazione el. 1 (Rapid 1)
El_2_on %Q4100.3 Rotazione el. 2 (Rapid 2)
El_3_on %Q4100.4 Rotazione el. 3
El_4_on %Q4100.5 Rotazione el. 4
El_5_on %Q4100.6 Rotazione el. 5 / fresa orizzontale EO
El_6_on %Q4100.7 Rotazione el. 6
%Q4101.0 Direzione rapid 6 n.2 / Tool re
End_acc_invl %I4001.2 Fine rampa inverter n.1
Pul_um1 %I4001.3
                            Pulsante uomo morto pulsantiera mobile 1
               %I4001.4
Check m2
                                      Check rotazine mandrini testina 9/11
                    %I4001.5
                   %I4001.6
Sel_rull
                                   Abilitazione rulliere
Sel rull cs
                     %I4001.7
                                    Abilitazione rulliere con
controsagome
                                                                                                                 Direzione rapid 6 n.2 / Tool room
//16 OUTPUT
                                                                            posteriore
//
                                                                            Stop_r2_tr
                                                                                                  %04101.1
                                                                                                                 Stop rapid 6 n.2 / Tool room
Lm_ab
                      %04000.0
                                     Laser linea per archi area AB
                                                                            posteriore
                    %04000.1
                                     Laser linea per archi area CD
                                                                            Start r2 tr
Lm cd
                                                                                                  %04101.2
                                                                                                                 Start rapid 6 n.2 / Tool room
               %Q4000.2
%Q4000.3
Rot_disco
                                     Rotazione fresa disco
                                                                            posteriore
Rot_man1
                                     Rotazione mandrini testa principale
                                                                            Res sell
                                                                                                  %04101.3
                                                                                                                 Reset selezione elettromandrini
Drv ond
               %Q4000.4 Abilitazioni assi d.c.
                                                                            inverter 1
                      %04000.5
                                 Rotazione mandrini testina 9/11
                                                                                                  %04101.4
Rot man2
                                                                            Res sel2
                                                                                                                 Reset selezione elettromandrini
                                                                            inverter 2
```

Author:

```
Cuf1_up
               %04101.5
                               Motore cuffia (salita)
                                                                               Sbl_ms2
                                                                                              %I4300.5
                                                                                                              Sblocco elettromandrino MS SCM 2
Cuf1 dw
               %04101.6
                               Motore cuffia (discesa)
                                                                               Zero ms2
                                                                                                      %I4300.6
                                                                                                                      Zero speed elettromandrino MS SCM 2
                                                                              Saf ms2
                                                                                                              Sicurezza elettromandrino MS SCM 2
                       %04101.7
                                                                                              %T4300.7
                                                                              Tir ms3
                                                                                              %I4301.0
                                                                                                              Tirante elettromandrino MS SCM 3
//****** MODULO REMOTATO $42 Carter anteriore *******
                                                                               Sbl ms3
                                                                                              %I4301.1
                                                                                                              Sblocco elettromandrino MS SCM 3
// Gestione piano nesting alluminio
                                                                                                      %T4301.2
                                                                               //
                                                                              Ok twin1
                                                                                                      %I4301.3
                                                                                                                      Sonda termica elettromandrino n.1
//16 INPUT
                                                                               (rapid 1)
                                                                              Ok twin2
                                                                                                      %I4301.4
                                                                                                                      Sonda termica elettromandrino n.2
//
                                                                               (rapid 2)
Pvac1 on
                       %I4200.0
                                       Selettore vuoto zona 1 on
Pvac1_off
                       %I4200.1
                                       Selettore vuoto zona 1 off
                                                                              Vp_agg
                                                                                              %I4301.5
                                                                                                              Gruppo per mov. piani/ventose agganciato
                                                                                              %I4301.6
Pvac2 on
                       %I4200.2
                                       Selettore vuoto zona 2 on
                                                                              Disco 0
                                                                                                              Fresa disco posizione 0°
Pvac2_off
                       %I4200.3
                                       Selettore vuoto zona 2 off
                                                                              Disco_90
                                                                                                      %I4301.7
                                                                                                                      Fresa disco posizione 90°
               %I4200.4
                               Vacuostato area 1
Vacu 1
                                                                              //
                                                                              //16 OUTPUT
//
                       %I4200.5
Vacu_rw
               %I4200.6
                               Vacuostato reverse flow
                                                                              //
Vacu_2
               %I4200.7
                               Vacuostato area 2
                                                                              Man 1
                                                                                                      %Q4300.0
                                                                                                                      Abilitazione mandrino 1
Emer ar
               %I4201.0
                               Pressostato presenza aria
                                                                              Man 2
                                                                                                      %04300.1
                                                                                                                      Abilitazione mandrino 2
                                                                                                      %04300.2
Lubr as
               %I4201.1
                               Presenza grasso (lub. centralizzata)
                                                                              Man 3
                                                                                                                      Abilitazione mandrino 3
                               Test lub. ok (lub. centralizzata)
                                                                                                      %04300.3
                                                                                                                      Abilitazione mandrino 4
Lubr ts
               %I4201.2
                                                                              Man 4
                                                                                                                      Abilitazione mandrino 5
Start a
               %I4201.3
                               Start ciclo area A
                                                                              Man 5
                                                                                                      %04300.4
//
                       %I4201.4
                                                                              Man 6
                                                                                                      %04300.5
                                                                                                                      Abilitazione mandrino 6
//
                       %I4201.5
                                                                              Man 7
                                                                                                      %04300.6
                                                                                                                      Abilitazione mandrino 7
               %I4201.6
                               Start ciclo area D
                                                                              Man 8
                                                                                                      %04300.7
                                                                                                                      Abilitazione mandrino 8
Start d
                       %I4201.7
                                                                                                      %04301.0
                                                                                                                      Abilitazione mandrino 9
//
                                                                              Man 9
                                                                              Man 10
                                                                                              %04301.1
                                                                                                           Abilitazione mandrino 10
//
                                                                                                                      Abilitazione mandrino orizzontale X1
//16 OUTPUT
                                                                              Man_orx1
                                                                                                      %04301.2
                                                                                                                      Abilitazione mandrino orizzontale Y1
//
                                                                              Man_ory1
                                                                                                      %04301.3
Bdf 1p
               %04200.0
                               Salita BDF zona 1 posteriore
                                                                              Ab twin2
                                                                                                      %04301.4
                                                                                                                      Abilitazione elettromandrino n.2
               %04200.1
                               Salita BDF zona 2 posteriore
                                                                                              %04301.5
                                                                                                           Abilitazione discesa fresa disco
Bdf_2p
                                                                              Ab dis
Evv1_on
               %Q4200.2
                               Vuoto zona 1 on
                                                                                                                      Abilitazione fresa disco posizione
                                                                              Or_dis_0
                                                                                                      %Q4301.6
Evv1 off
                      %04200.3
                                       Vuoto zona 1 off
                                                                              Or_dis_90
Evv2 on
               %04200.4
                               Vijoto zona 2 on
                                                                                                      %04301.7
                                                                                                                      Abilitazione fresa disco posizione 9
Evv2_off
                      %04200.5
                                       Vuoto zona 2 off
                               Segnalazione presenza vuoto zona 1
Lamp 1
               %04200.6
                                                                               //****** MODULO REMOTATO $44 Carter superiore *******
               %04200.7
                               Segnalazione presenza vuoto zona 2
Lamp_2
Bdf 1a
               %04201.0
                               Salita BDF zona 1 anteriore
                                                                              // Gestione magazzino Rapid 10/14 associato a el. n.1
Bdf_2a
               %04201.1
                               Salita BDF zona 2 anteriore
                                                                               //
                                       Salita sfere zona 1 posteriore
                                                                              //16 INPUT
Sfere 1p
                       %04201.2
Sfere_2p
                       %04201.3
                                       Salita sfere zona 2 posteriore
                                                                              //
                       %04201.4
                                       Salita sfere zona 1 anteriore
                                                                                                      %I4400.0
Sfere_la
                                                                              Imcu out r1
                                                                                                                      Magazzino posizione OUT (rapid1)
                       %Q4201.5
                                       Salita sfere zona 2 anteriore
                                                                               Imcu_in_r1
                                                                                                      %I4400.1
Sfere_2a
                                                                                                                      Magazzino posizione IN (rapid1)
Lubr on
               %04201.6
                               Abilitazione ciclo lubrificazione (lub.
                                                                              Imcu up r1
                                                                                                      %I4400.2
                                                                                                                      Magazzino posizione UP (rapid1)
automatica)
                                                                              Imcu_dn_r1
                                                                                                      %I4400.3
                                                                                                                      Magazzino posizione DOWN (rapid1)
                       %04201.7
                                                                              Icuff_cu_r1
                                                                                                      %I4400.4
Reverse flow
                                       Abilitazione nesting reverse flow
                                                                                                                      Cuffia el. posizione di CU (rapid1)
                                                                               Fc in v r1
                                                                                                                      Fine corsa asse vector - (rapid1)
                                                                                                      %I4400.5
//***** MODULO REMOTATO $43 Carter superiore *******
                                                                              Fc_av_v_r1
                                                                                                      %I4400.6
                                                                                                                      Fine corsa asse vector + (rapid1)
// Gestione testa 10+2 mandrini e gruppi ausiliari
                                                                               Em saf rl
                                                                                                      %I4400.7
                                                                                                                      Sicurezza utensile el. (rapid1)
                                                                              Itir e r1
                                                                                                      %I4401.0
                                                                                                                      El. tirante (rapid1)
//
//16 INPUT
                                                                              Iem_pcu_r1
                                                                                                      %I4401.1
                                                                                                                      El. posizione cambio utensile (rapid
//
                                                                              1)
Tir ms1
               %I4300.0
                               Tirante elettromandrino MS SCM 1
                                                                               Iem pl rl
                                                                                                      %I4401.2
                                                                                                                      El. posizione 1 (rapid1)
Sbl ms1
               %I4300.1
                               Sblocco elettromandrino MS SCM 1
                                                                                                      %I4401.3
Zero_ms1
                       %I4300.2
                                       Zero speed elettromandrino MS SCM 1
                                                                              Speed_0_r1
                                                                                                      %I4401.4
                                                                                                                      El. 0_speed (rapid1)
Saf ms1
               %I4300.3
                               Sicurezza elettromandrino MS SCM 1
                                                                              Iem_ptr_r1
                                                                                                      %I4401.5
                                                                                                                      El. posizione n.2 ON (doppio assetto
               %I4300.4
                               Tirante elettromandrino MS SCM 2
Tir ms2
                                                                               /carico tool-room)
```

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.

```
11
                        %I4401.6
                                                                                 Man_14
                                                                                                 %04600.3
                                                                                                                 Abilitazione mandrino 14
11
                        %I4401.7
                                                                                 Man 15
                                                                                                 %04600.4
                                                                                                                 Abilitazione mandrino 15
//
                                                                                Man_16
                                                                                                 %04600.5
                                                                                                                 Abilitazione mandrino 16
                                                                                Man 17
                                                                                                 %04600.6
                                                                                                                 Abilitazione mandrino 17
//16 OUTPUT
//
                                                                                Man 18
                                                                                                 %04600.7
                                                                                                                 Abilitazione mandrino 18
                        %0443b.1
                                        Abilitazione accesso modulo 44
                                                                                Man orx2
                                                                                                         %04601.0
                                                                                                                         Abilitazione mandrino orizzontale X2
Modulo_44
Mcu_out_r1
                        %04400.0
                                        Magazzino pos. OUT (rapid1)
                                                                                Cuffia m
                                                                                                         %04601.1
                                                                                                                         Abilitazione cuffia mandrini
Mcu in r1
                        %04400.1
                                        Magazzino pos. IN (rapid1)
                                                                                Ab twin5
                                                                                                         %04601.2
                                                                                                                         EO n.1 assetto 1 / Abilitazione el.5
Mcu_up_r1
                        %04400.2
                                        Magazzino pos. UP (rapid1)
                                                                                Ab twin5 a
                                                                                                         %04601.3
                                                                                                                         EO n.1 assetto 2
Mcu dn r1
                        %04400.3
                                        Magazzino pos. DOWN (rapid1)
                                                                                Unload
                                                                                                 %04601.4
                                                                                                                 Discesa gruppo scarico pezzi per piano
Emcu_su_r1
                        %Q4400.4
                                        Sblocco utensile + soffiatore (rapid
                                                                                 nesting
1)
                                                                                 Ab twin1
                                                                                                         %04601.5
                                                                                                                         Abilitazione elettromandrino n.1
Emcu ptr r1
                        %04400.5
                                        El. posizione n.2 ON (doppio assetto
                                                                                Laser1
                                                                                                         %04601.6
                                                                                                                         Laser SX posizinamento piani/ventose
                                                                                Laser2
/carico tool-room)
                                                                                                         %04601.7
                                                                                                                         Laser DX posizinamento piani/ventose
Emcu pcu r1
                        %04400.6
                                        El. posizione CU (rapid1)
                                                                                 //
Emcu pl rl
                        %04400.7
                                        El. posizione 1+ aspirazione (rapid1
                                                                                 //
                                                                                 //***** MODULO REMOTATO $4F Carter superiore *******
Cuff cu r1
                        %04401.0
                                        Cuffie posizione CU (rapid1)
                                                                                 // Gestione elettromandrini 3 4 6 7
Cuff pl rl
                        %04401.1
                                        Cuffie posizione 1 (rapid1)
                                        Cuffie posizione 2 (rapid1)
                                                                                //16 INPUT
Cuff_p2_r1
                        %04401.2
Cuff p3 r1
                        %04401.3
                                        Cuffie posizione 3 (rapid1)
                                                                                 //
Freno a r1
                        %04401.4
                                        Freno asse A (vector rapid1)
                                                                                 Zero ms3
                                                                                                         %T4F00.0
                                                                                                                         Zero speed el. MS SCM 3
Fbr2_spon
                        %04401.5
                                        Freno asse B (vector rapid2)
                                                                                Saf ms3
                                                                                                 %I4F00.1
                                                                                                                 Sicurezza el. MS SCM 3
Soffio r1
                                        Soffiatore per testine
                                                                                Tir ms4
                                                                                                 %I4F00.2
                                                                                                                 Tirante el. MS SCM 4
                        %04401.6
                                                                                 Sbl ms4
                                                                                                 %I4F00.3
Emcu poff r1
                        %04401.7
                                        El. posizione n.2 OFF (doppio
                                                                                                                 Sblocco el. MS SCM 4
assetto/carico tool-room)
                                                                                 Zero ms4
                                                                                                         %I4F00.4
                                                                                                                         Zero speed el. MS SCM 4
                                                                                Saf_ms4
                                                                                                 %I4F00.5
                                                                                                                 Sicurezza el. MS SCM 4
//***** MODULO REMOTATO $46 Carter superiore *******
                                                                                Tir_ms6
                                                                                                 %I4F00.6
                                                                                                                 Tirante el. MS SCM 6
// Estensione per gestione testa 18+3 mandrini e gruppi ausiliari
                                                                                 Sbl ms6
                                                                                                 %I4F00.7
                                                                                                                 Sblocco el. MS SCM 6
                                                                                 Zero ms6
                                                                                                         %I4F01.0
                                                                                                                         Zero speed el. MS SCM 6
//16 INPUT
                                                                                Saf_ms6
                                                                                                 %I4F01.1
                                                                                                                 Sicurezza el. MS SCM 6
                                                                                Ok twin3
                                                                                                         %I4F01.2
                                                                                                                         Sonda termica elettromandrino n.3
//
11
                        %T4600.0
                                                                                 Ok twin4
                                                                                                         %T4F01.3
                                                                                                                         Sonda termica elettromandrino n.4
11
                        %I4600.1
                                                                                Ok twin6
                                                                                                         %I4F01.4
                                                                                                                         Sonda termica elettromandrino n.6
11
                        %I4600.2
                                                                                                         %I4F01.5
                                                                                 //
//
                        %I4600.3
                                                                                //
                                                                                                         %I4F01.6
11
                        %14600.4
                                                                                //
                                                                                                         %I4F01.7
11
                        %I4600.5
                                                                                 //
//
                        %I4600.6
                                                                                 //16 OUTPUT
11
                        %14600.7
                                                                                 //
Tir ms5
                %I4601.0
                                Tirante el. MS SCM 5
                                                                                Ab twin3
                                                                                                         %O4F00.0
                                                                                                                         Discesa gruppo elettromandrino n.3
                                Sblocco el. MS SCM 5
                                                                                Ab_twin4
                                                                                                         %Q4F00.1
                                                                                                                         EO n.2 assetto 1 / Abilitazione el.4
Sbl_ms5
                %I4601.1
Zero ms5
                        %I4601.2
                                        Zero speed el. MS SCM 5
                                                                                 Ab twin6
                                                                                                         %04F00.2
                                                                                                                         Discesa gruppo elettromandrino n.6
Saf_ms5
                %I4601.3
                                Sicurezza el. MS SCM 5
                                                                                 //
                                                                                                         %O4F00.3
Ok twin5
                        %I4601.4
                                        Sonda termica el. 5
                                                                                 //
                                                                                                         %Q4F00.4
                                        Gruppo scarico pezzi per piano
Unload up
                        %I4601.5
                                                                                 //
                                                                                                         %04F00.5
nesting in posizione UP
                                                                                                         %O4F00.6
                                                                                 //
Unload dw
                                                                                 11
                                                                                                         %04F00.7
                        %I4601.6
                                        Gruppo scarico pezzi per piano
nesting in posizione Down
                                                                                 11
                                                                                                         %04F01.0
//
                        %I4601.7
                                                                                 //
                                                                                                         %04F01.1
//
                                                                                 11
                                                                                                         %04F01.2
//16 OUTPUT
                                                                                 //
                                                                                                         %O4F01.3
//
                                                                                 //
                                                                                                         %04F01.4
Man_11
                %04600.0
                                Abilitazione mandrino 11
                                                                                Ab_tasta
                                                                                                         %O4F01.5
                                                                                                                         Discesa tastatore
Man_12
                %04600.1
                                Abilitazione mandrino 12
                                                                                                         %O4F01.6
                                                                                 //
Man 13
                %04600.2
                                Abilitazione mandrino 13
                                                                                 //
                                                                                                         %O4F01.7
```

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```
11
                                                                                                         %I4801.0
                                                                                 //
                                                                                                         %I4801.1
//***** MODULO REMOTATO $47 Carter superiore *******
                                                                                 //
                                                                                                         %I4801.2
// Estensione per gestione testa 30+6 mandrini
                                                                                 11
                                                                                                         %I4801.3
                                                                                 11
                                                                                                         %I4801.4
//16 INPUT
                                                                                                         %I4801.5
                                                                                 //
//
                                                                                 11
                                                                                                         %I4801.6
//
                        %14700.0
                                                                                 //
                                                                                                         %I4801.7
//
                        %I4700.1
                                                                                 //
11
                        %I4700.2
                                                                                 //16 OUTPUT
11
                        %I4700.3
                                                                                 //
//
                        %14700.4
                                                                                 Man_suppl1
                                                                                                          %04800.B
                                                                                                                          Abilitazione mandrini supplementari
11
                        %14700.5
                                                                                 Man_suppl2
                                                                                                          %04801.B
                                                                                                                          Abilitazione mandrini supplementari
11
                        %14700.6
                                                                                 Man_s_1
                                                                                                 %04800.0
                                                                                                                  Abilitazione mandrino supplementare 1
                                                                                                 %04800.1
//
                        %I4700.7
                                                                                 Man s 2
                                                                                                                  Abilitazione mandrino supplementare 2
11
                                                                                                 %04800.2
                                                                                                                  Abilitazione mandrino supplementare 3
                        %I4701.0
                                                                                 Man s 3
11
                        %I4701.1
                                                                                                 %Q4800.3
                                                                                                                  Abilitazione mandrino supplementare 4
                                                                                 Man_s_4
11
                        %I4701.2
                                                                                 Man s 5
                                                                                                 %04800.4
                                                                                                                  Abilitazione mandrino supplementare 5
//
                        %I4701.3
                                                                                 Man_s_6
                                                                                                 %04800.5
                                                                                                                  Abilitazione mandrino supplementare 6
                                                                                                 %Q4800.6
11
                        %I4701.4
                                                                                 Man_s_7
                                                                                                                  Abilitazione mandrino supplementare 7
11
                                                                                                 %04800.7
                                                                                                                  Abilitazione mandrino supplementare 8
                        %I4701.5
                                                                                 Man s 8
11
                        %I4701.6
                                                                                 Man s 9
                                                                                                 %Q4801.0
                                                                                                                  Abilitazione mandrino supplementare 9
11
                        %I4701.7
                                                                                 Man_s_10
                                                                                                          %Q4801.1
                                                                                                                          Abilitazione mandrino supplementare
                                                                                 10
//16 OUTPUT
                                                                                 Man_s_11
                                                                                                          %04801.2
                                                                                                                          Abilitazione mandrino supplementare
//
                                                                                 11
Man_19
                %04700.0
                                Abilitazione mandrino 19
                                                                                 Man_so_x1
                                                                                                          %04801.3
                                                                                                                          Abilitazione mandrino or.
Man_20
                %Q4700.1
                                Abilitazione mandrino 20
                                                                                  supplementare X1
Man_21
                %04700.2
                                Abilitazione mandrino 21
                                                                                 Man so x2
                                                                                                          %04801.4
                                                                                                                          Abilitazione mandrino or.
Man_22
                %04700.3
                                Abilitazione mandrino 22
                                                                                  supplementare X2
Man_23
                                                                                                                          Abilitazione mandrino or.
                %Q4700.4
                                Abilitazione mandrino 23
                                                                                 Man_so_x3
                                                                                                          %Q4801.5
                                                                                  supplementare X3
Man 24
                                Abilitazione mandrino 24
                %04700.5
Man_25
                %Q4700.6
                                Abilitazione mandrino 25
                                                                                                          %04801.6
Man_26
                %Q4700.7
                                Abilitazione mandrino 26
                                                                                 Cuff ms
                                                                                                  %04801.7
                                                                                                                  Cuffia mandrini supplementare
                                Abilitazione mandrino 27
Man 27
                %04701.0
                                                                                 //***** MODULO REMOTATO $49 Carter superiore *******
Man_28
                %04701.1
                                Abilitazione mandrino 28
Man_29
                %04701.2
                                Abilitazione mandrino 29
                                                                                 // Gestione magazzino Rapid 10/14 associato a el. n.2
Man_30
                                Abilitazione mandrino 30
                %Q4701.3
                                                                                 //
Man orx3
                        %04701.4
                                        Abilitazione mandrino orizzontale X3
                                                                                 //16 INPUT
Man_orx4
                        %04701.5
                                        Abilitazione mandrino orizzontale X4
                                                                                 //
                                        Abilitazione mandrino orizzontale Y2
Man_ory2
                        %04701.6
                                                                                 Imcu_out_r2
                                                                                                         %14900.0
                                                                                                                          Magazzino posizione OUT (rapid2)
                                                                                                         %I4900.1
                                                                                 Imcu_in_r2
                                                                                                                          Magazzino posizione IN (rapid2)
//
                        %Q4701.7
11
                                                                                 Imcu up r2
                                                                                                         %I4900.2
                                                                                                                          Magazzino posizione UP (rapid2)
                                                                                 Imcu_dn_r2
                                                                                                         %I4900.3
                                                                                                                          Magazzino posizione DOWN (rapid2)
//***** MODULO REMOTATO $48 Carter superiore *******
                                                                                 Icuff_cu_r2
                                                                                                         %I4900.4
                                                                                                                          Cuffia elettromandrino posizione di
// Testina supplementare 11/9 mandrini
                                                                                  cambio ut. (rapid2)
//
                                                                                 Fc_in_v_r2
                                                                                                         %I4900.5
                                                                                                                          Fine corsa asse vector - (rapid2)
//16 INPUT
                                                                                 Fc av v r2
                                                                                                         %I4900.6
                                                                                                                          Fine corsa asse vector + (rapid2)
                                                                                 Em saf r2
                                                                                                                          Sicurezza utensile elettromandrino
//
                                                                                                         %I4900.7
//
                        %14800.0
                                                                                 (rapid2)
//
                        %I4800.1
                                                                                 Itir e r2
                                                                                                         %I4901.0
                                                                                                                          El. tirante (rapid2)
//
                        %I4800.2
                                                                                 Iem pcu r2
                                                                                                         %I4901.1
                                                                                                                          El. posizione CU (rapid2)
//
                        %I4800.3
                                                                                 Iem_p1_r2
                                                                                                         %I4901.2
                                                                                                                          El. posizione 1 (rapid2)
11
                        %I4800.4
                                                                                                         %I4901.3
11
                        %I4800.5
                                                                                 Speed_0_r2
                                                                                                         %I4901.4
                                                                                                                          El. 0_speed (rapid2)
                        %14800.7
                                                                                 //
                                                                                                         %I4901.5
```

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```
11
                        %I4901.6
                                                                                                          %Q4A00.7
11
                        %I4901.7
                                                                                 //
                                                                                                          %O4A01.0
//
                                                                                 //
                                                                                                         %04A01.1
                                                                                 11
//16 OUTPUT
                                                                                                         %O4A01.2
//
                                                                                 //
                                                                                                          %O4A01.3
                        %Q493b.1
                                        Abilitazione accesso modulo 49
                                                                                                          %Q4A01.4
Modulo_49
                                                                                 //
Mcu_out_r2
                        %04900.0
                                        Magazzino posizione OUT (rapid2)
                                                                                 11
                                                                                                          %Q4A01.5
Mcu in r2
                        %04900.1
                                        Magazzino posizione IN (rapid2)
                                                                                 //
                                                                                                          %04A01.6
Mcu_up_r2
                        %04900.2
                                        Magazzino posizione UP (rapid2)
                                                                                 //
                                                                                                          %04A01.7
Mcu dn r2
                        %04900.3
                                        Magazzino posizione DOWN (rapid2)
                                                                                 11
Emcu_su_r2
                        %Q4900.4
                                        Sblocco utensile + soffiatore (rapid
                                                                                 //***** MODULO REMOTATO $4B Carter anteriore *******
2)
                                                                                 // Gestione 8 aree automatiche / Gestione macchina Twin 8 aree
//
                        %04900.5
                                                                                 //
Emcu_pcu_r2
                        %04900.6
                                        El. posizione CU (rapid2)
                                                                                 //16 INPUT
Emcu_p1_r2
                        %04900.7
                                        El. posizione 1+ aspirazione (rapid2
                                                                                 //
                                                                                                  %I4B00.0
                                                                                                                  Vacuostato area E/I
                                                                                 Vacu e
Cuff_cu_r2
                                        Cuffie posizione CU (rapid2)
                                                                                 Vacu f
                                                                                                         %T4B00.1
                        %Q4901.0
                                                                                                                         Vacuostato area F/J
Cuff p1 r2
                        %04901.1
                                        Cuffie posizione 1 (rapid2)
                                                                                 Vacu q
                                                                                                 %I4B00.2
                                                                                                                 Vacuostato area G/K
Cuff p2 r2
                        %04901.2
                                        Cuffie posizione 2 (rapid2)
                                                                                 Vacu h
                                                                                                 %I4B00.3
                                                                                                                  Vacuostato area H/L
                                                                                                 %I4B00.4
Cuff_p3_r2
                        %04901.3
                                        Cuffie posizione 3 (rapid2)
                                                                                 Lock e
                                                                                                                 Blocco/sblocco area E/I
Soffio r2
                        %04901.4
                                                                                 Lock f
                                                                                                         %I4B00.5
                                                                                                                         Blocco/sblocco area F/J
                                        Soffiatore per testine
                        %04901.5
                                                                                 Lock a
                                                                                                 %I4B00.6
                                                                                                                 Blocco/sblocco area G/K
//
//
                        %04901.6
                                                                                 Lock_h
                                                                                                 %I4B00.7
                                                                                                                 Blocco/sblocco area H/L
//
                        %04901.7
                                                                                                         %I4B01.0
                                                                                 //
                                                                                                         %I4B01.1
                                                                                 //
//***** MODULO REMOTATO $4A Armadio elettrico *******
                                                                                                         %I4B01.2
                                                                                 //
// Gestione 3 e 4 inverter
                                                                                 11
                                                                                                         %I4B01.3
//
                                                                                 //
                                                                                                         %I4B01.4
//16 INPUT
                                                                                 //
                                                                                                         %I4B01.5
//
                                                                                 //
                                                                                                         %I4B01.6
                                                                                                         %I4B01.7
Emer_inv3
                        %I4A00.0
                                        Emergenza inverter n.3
                                                                                 //
Freq 0 inv3
                                        Frequenza 0 inverter n.3
                        %I4A00.1
                                                                                 //
End_acc_inv3
                %T4A00.2
                                Fine rampa inverter n.3
                                                                                 //16 OUTPUT
Emer inv4
                        %I4A00.3
                                        Emergenza inverter n.4
                                                                                 //
Freq 0 inv4
                        %I4A00.4
                                                                                                                          Discesa BDF area E/I
                                        Frequenza 0 inverter n.4
                                                                                 Bdf e
                                                                                                          %O4B00.0
                %I4A00.5
End_acc_inv4
                                Fine rampa inverter n.4
                                                                                 Bdf f
                                                                                                          %O4B00.1
                                                                                                                          Discesa BDF area F/J
                                                                                 Bdf q
                                                                                                          %O4B00.2
                                                                                                                          Discesa BDF area G/K
//
                        %I4A00.6
//
                        %I4A00.7
                                                                                 Bdf h
                                                                                                         %O4B00.3
                                                                                                                          Discesa BDF area H/L
                                                                                 Bdf f1
//
                        %I4A01.0
                                                                                                          %O4B00.4
                                                                                                                          Discesa BDF centrale F/J
11
                        %I4A01.1
                                                                                 Bdf q1
                                                                                                 %O4B00.5
                                                                                                                 Discesa BDF centrale G/K
                        %T4A01.2
                                                                                                          %O4B00.6
                                                                                                                          Sollevamento ventose area E/I
11
                                                                                 Ventose e
                                                                                                         %Q4B00.7
11
                        %I4A01.3
                                                                                 Ventose_f
                                                                                                                          Sollevamento ventose area F/J
11
                        %I4A01.4
                                                                                                         %O4B01.0
                                                                                                                          Sollevamento ventose area G/K
                                                                                 Ventose q
11
                        %T4A01.5
                                                                                 Ventose_h
                                                                                                         %Q4B01.1
                                                                                                                          Sollevamento ventose area H/L
11
                        %I4A01.6
                                                                                 Rulliere e
                                                                                                         %Q4B01.2
                                                                                                                          Sol. rulliere aiuto carico area E/I
                                                                                                                          Sol. rulliere aiuto carico area F/J
//
                        %I4A01.7
                                                                                 Rulliere f
                                                                                                          %O4B01.3
                                                                                                                          Sol. rulliere aiuto carico area G/K
11
                                                                                 Rulliere a
                                                                                                          %O4B01.4
//16 OUTPUT
                                                                                                          %O4B01.5
                                                                                                                          Sol. rulliere aiuto carico area H/L
                                                                                 Rulliere h
//
                                                                                 //
                                                                                                          %O4B01.6
Inv3_on
                %O4A00.0
                                Abilitazione inverter n.3
                                                                                 //
                                                                                                          %O4B01.7
Inv3 ccw
                        %04A00.1
                                        Abilitazione CCW inverter n.3
                                        Reset selezione elettromandrini INV3
                                                                                 //****** MODULO REMOTATO $4C Carter anteriore *******
Res sel3
                        %04A00.2
Inv4 on
                %O4A00.3
                                Abilitazione inverter n.4
                                                                                 // Gestione piano di lavoro automatico Autopad
Inv4_ccw
                        %Q4A00.4
                                        Abilitazione CCW inverter n.4
                                                                                 //
Res_sel4
                        %04A00.5
                                        Reset selezione elettromandrini INV4
                                                                                 //16 INPUT
//
                        %04A00.6
                                                                                 //
```

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```
%I4C00.0
                                                                                Fc0 cf
                                                                                                         %I4D01.4
Auto_man
                                        Selettore piani/ventose automatiche
                                                                                                                         Cuffia motorizzata (origine)
/manuali
                                                                                Foof ck
                                                                                                 %I4D01.5
                                                                                                                 Cuffia motorizzata (conteggio)
                        %I4C00.1
                                                                                Disco2 0
                                                                                                         %I4D01.6
                                                                                                                         Fresa disco n.2 posizione 0°
//
                        %I4C00.2
                                                                                Disco2 90
                                                                                                         %I4D01.7
                                                                                                                         Fresa disco n.2 posizione 90°
                        %I4C00.3
//
11
                        %I4C00.4
                                                                                //16 OUTPUT
//
                        %I4C00.5
                                                                                //
//
                        %I4C00.6
                                                                                M in r1
                                                                                                 %O4D00.0
                                                                                                                 Magazzino 1 IN
//
                        %I4C00.7
                                                                                M out r1
                                                                                                         %O4D00.1
                                                                                                                         Magazzino 1 OUT
                                                                                                         %O4D00.2
//
                        %I4C01.0
                                                                                Cuff ell r6
                                                                                                                         Sollevamento cuffia
11
                        %I4C01.1
                                                                                El1_bl
                                                                                                         %Q4D00.3
                                                                                                                         Elettromandrino 1 Blocco/Sblocco
                                                                                El1_p1
//
                        %I4C01.2
                                                                                                         %O4D00.4
                                                                                                                         Elettromandrino 1 posizione lavoro
11
                        %I4C01.3
                                                                                El1_p2
                                                                                                         %O4D00.5
                                                                                                                         Elettromandrino 1 posizione CU
11
                                                                                                                         Freno asse vector
                        %I4C01.4
                                                                                Freno ar6
                                                                                                         %O4D00.6
//
                        %I4C01.5
                                                                                                         %O4D00.7
11
                        %I4C01.6
                                                                                                         %O4D01.0
                                                                                //
11
                        %I4C01.7
                                                                                //
                                                                                                         %Q4D01.1
//
                                                                                //
                                                                                                         %O4D01.2
//16 OUTPUT
                                                                                Or dis2 90
                                                                                                         %Q4D01.3
                                                                                                                         Abilitazione fresa disco posizione 9
//
                                                                                Ab dis2
Sb pia 1
                        %04C00.0
                                        Sbloccaggio strette piano 1
                                                                                                 %O4D01.4
                                                                                                                 Abilitazione discesa fresa disco
Sb_pia_2
                        %04C00.1
                                        Sbloccaggio strette piano 2
                                                                                Or_dis2_0
                                                                                                         %Q4D01.5
                                                                                                                         Abilitazione fresa disco posizione
Sb_pia_3
                        %04C00.2
                                        Sbloccaggio strette piano 3
                                                                                0 0
Sb_pia_4
                        %04C00.3
                                        Sbloccaggio strette piano 4
                                                                                Freno br6
                                                                                                         %04D01.6
                                                                                                                         Freno asse B
Sb pia 5
                        %04C00.4
                                        Sbloccaggio strette piano 5
                                                                                Ab twin4 a
                                                                                                         %O4D01.7
                                                                                                                         EO n.2 assetto 2
Sb_pia_6
                        %04C00.5
                                        Sbloccaggio strette piano 6
Sb_pia_7
                        %04C00.6
                                        Sbloccaggio strette piano 7
                                                                                //***** MODULO REMOTATO $4E Carter superiore *****
Sb_pia_8
                        %Q4C00.7
                                        Sbloccaggio strette piano 8
                                                                                // Gestione magazzino Rapid 6/8/12 associato a el. n.2
Sb pia 9
                        %04C01.0
                                        Sbloccaggio strette piano 9
                                                                                //16 INPUT
Sb_pia_10
                        %04C01.1
                                        Sbloccaggio strette piano 10
Sb_ven_ab
                        %Q4C01.2
                                        Sbloccaggio strette ventose area AB
                                                                                //
Sb ven cd
                                        Sbloccaggio strette ventose area CD
                                                                                //
                        %04C01.3
                                                                                                         %I4E00.0
Sb ven cen
                        %Q4C01.4
                                        Sbloccaggio strette ventose area
                                                                                Clock_r2
                                                                                                         %T4E00.1
                                                                                                                         Conteggio magazzino 2
                                                                                                         %I4E00.2
                                                                                                                         Posizione magazzino 2
centrale
                                                                                Posiz_r2
                                                                                Orig r2
                                                                                                                 Taratura magazzino 2
//
                        %04C01.5
                                                                                                 %I4E00.3
//
                        %04C01.6
                                                                                //
                                                                                                         %I4E00.4
//
                        %04C01.7
                                                                                Imag in r2
                                                                                                         %I4E00.5
                                                                                                                         Magazzino 2 posizione IN
                                                                                Imag out r2
                                                                                                         %I4E00.6
                                                                                                                         Magazzino 2 posizione OUT
//***** MODULO REMOTATO $4D Carter superiore *****
                                                                                Cu el2 r6
                                                                                                         %I4E00.7
                                                                                                                         Cuffia el.2 posizione di cambio ut.
// Gestione magazzino Rapid 6/8/12 associato a el. n.1
                                                                                (rapid6)
                                                                                El2_pcu_r6
                                                                                                         %I4E01.0
//
                                                                                                                         El. 2 posizione cambio ut.
//16 INPUT
                                                                                                         %I4E01.1
                                                                                //
                                                                                                         %I4E01.2
//
//
                        %T4D00.0
                                                                                //
                                                                                                         %I4E01.3
                        %I4D00.1
Clock r1
                                        Conteggio magazzino 1
                                                                                //
                                                                                                         %I4E01.4
                                        Posizione magazzino 1
Posiz r1
                        %I4D00.2
                                                                                //
                                                                                                         %I4E01.5
                %I4D00.3
Orig_r1
                                Taratura magazzino 1
                                                                                //
                                                                                                         %I4E01.6
                                                                                11
//
                        %I4D00.4
                                                                                                         %I4E01.7
Imag in r1
                        %I4D00.5
                                        Magazzino 1 posizione IN
                                                                                //
Imag_out_r1
                        %I4D00.6
                                        Magazzino 1 posizione OUT
                                                                                //16 OUTPUT
Cu ell r6
                        %I4D00.7
                                        Cuffia posizione CU (cuffia
                                                                                //
motorizzata alta)
                                                                                M in r2
                                                                                                 %O4E00.0
                                                                                                                 Magazzino 2 IN
El1_pcu_r6
                        %I4D01.0
                                        El. 1 posizione CU on
                                                                                M out r2
                                                                                                         %Q4E00.1
                                                                                                                         Magazzino 2 OUT
El1_pcu_off
                        %I4D01.1
                                        El. 1 posizione CU off
                                                                                Cuff_el2_r6
                                                                                                         %Q4E00.2
                                                                                                                         Sollevamento cuffia rapid 2
El1_p1_on
                        %I4D01.2
                                        El. 1 posizione lavoro on
                                                                                E12 bl
                                                                                                         %Q4E00.3
                                                                                                                         Elettromandrino 2 Blocco/Sblocco
El1_p1_off
                        %I4D01.3
                                        El. 1 posizione lavoro off
                                                                                E12_p1
                                                                                                         %O4E00.4
                                                                                                                         Elettromandrino 2 posizione lavoro 1
                                                                                10mm
```

Author:		NUM	TOOLS	1
Company:		NOM	TOOL	,
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: 800_NEST.XSY			Page	6

```
E12_p2
                        %04E00.5
                                        Elettromandrino 2 posizione
estrazione ut. -90mm
                                                                                 //****** MODULO REMOTATO $51
Freno r2
                        %04E00.6
                                        Freno asse vector
                                                                                 // Gestione magazzino Tool-Room posteriore 12 posti
                        %O4E00.7
                        %O4E01.0
                                                                                 //16 INPUT
//
11
                        %Q4E01.1
                                                                                 //
11
                        %O4E01.2
                                                                                 Clock_tr12
                                                                                                         %I5100.0
11
                        %O4E01.3
                                                                                 Posiz tr12
                                                                                                         %I5100.1
11
                        %04E01.4
                                                                                 Orig tr12
                                                                                                         %I5100.2
//
                        %O4E01.5
                                                                                 I up tr12
                                                                                                         %I5100.3
//
                        %Q4E01.6
                                                                                 I_dw_tr12
                                                                                                         %I5100.4
11
                        %04E01.7
                                                                                 I lh tr12
                                                                                                         %I5100.5
                                                                                 I_dh_tr12
                                                                                                         %I5100.6
//****** MODULO REMOTATO $50
                                                                                 I re tr12
                                                                                                         %I5100.7
// Gestione morsetti
                                                                                 I fr tr12
                                                                                                         %I5101.0
                                                                                                         %I5101.1
                                                                                 //
//16 INPUT
                                                                                 11
                                                                                                         %I5101.2
                                                                                 11
                                                                                                         %I5101.3
Apres ab
                        %15000.0
                                        Selezione alta pressione area AB
                                                                                 //
                                                                                                         %I5101.4
                        %I5000.1
Bpres_ab
                                        Selezione bassa pressione area AB
                                                                                 //
                                                                                                         %I5101.5
Apres cd
                        %I5000.2
                                        Selezione alta pressione area CD
                                                                                 11
                                                                                                         %I5101.6
Bpres cd
                        %I5000.3
                                        Selezione bassa pressione area CD
                                                                                 //
                                                                                                         %I5101.7
Okpres_ab
                        %15000.4
                                        Presenza alta pressione area AB
                                                                                 //
Okpres cd
                        %I5000.5
                                        Presenza alta pressione area CD
                                                                                 //16 OUTPUT
                                Chiusura morsetti anteriori area AB
Cma ab
                %I5000.6
                                                                                 //
Ama_ab
                %I5000.7
                                Apertura morsetti anteriori area AB
                                                                                                          %05100.0
                                                                                 0_up_tr12
Cmp_ab
                %I5001.0
                                Chiusura morsetti posteriori area AB
                                                                                 0_dw_tr12
                                                                                                         %Q5100.1
                                                                                 O_lh_tr12
Amp_ab
                %I5001.1
                                Apertura morsetti posteriori area AB
                                                                                                         %Q5100.2
Cma cd
                %I5001.2
                                Chiusura morsetti anteriori area CD
                                                                                 0 dh tr12
                                                                                                         %05100.3
Ama_cd
                %I5001.3
                                Apertura morsetti anteriori area CD
                                                                                 0 re tr12
                                                                                                         %05100.4
                %I5001.4
                                                                                 0_fr_tr12
Cmp_cd
                                Chiusura morsetti posteriori area CD
                                                                                                         %Q5100.5
                                Apertura morsetti posteriori area CD
                                                                                 Soffio tr12
Amp cd
                %I5001.5
                                                                                                         %05100.6
Ab_pn
                        %T5001.6
                                        Selezione morsetti alti arera AB
                                                                                                         %05100.5
                                                                                 //
pneumatico
                                                                                 //
                                                                                                         %Q5101.0
Cd pn
                        %I5001.7
                                        Selezione morsetti alti arera CD
                                                                                 //
                                                                                                         %05101.1
pneumatico
                                                                                 //
                                                                                                         %05101.2
                                                                                 11
                                                                                                         %05101.3
//
//16 OUTPUT
                                                                                 11
                                                                                                         %Q5101.4
//
                                                                                 //
                                                                                                         %05101.5
On_pres_ab
                        %05000.0
                                        Abilitazione alta pressione area AB
                                                                                 11
                                                                                                         %05101.6
Off pres ab
                        %05000.1
                                        Abilitazione bassa pressione area AB
                                                                                 //
                                                                                                         %05101.7
On_pres_cd
                        %Q5000.2
                                        Abilitazione alta pressione area CD
                                                                                 //
Off pres cd
                        %05000.3
                                        Abilitazione bassa pressione area CD
On_ma_ab
                        %Q5000.4
                                        Chiusura morsetti anteriori area AB
Off_ma_ab
                        %Q5000.5
                                        Apertura morsetti anteriori area AB
On mp ab
                        %05000.6
                                        Chiusura morsetti posteriori area AB
Off_mp_ab
                                        Apertura morsetti posteriori area AB
                        %05000.7
On ma cd
                        %05001.0
                                        Chiusura morsetti anteriori area CD
Off ma cd
                                        Apertura morsetti anteriori area CD
                        %05001.1
On_mp_cd
                        %05001.2
                                        Chiusura morsetti posteriori area CD
Off_mp_cd
                        %05001.3
                                        Apertura morsetti posteriori area CD
Bdf mab
                %05001.4
                                Salita bdf per morsetti area AB
Bdf_mcd
                %05001.5
                                Salita bdf per morsetti area CD
Seg_a_ab
                        %Q5001.6
                                        Segnalazione alta pressione area AB
Seg a cd
                        %05001.7
                                        Segnalazione alta pressione area CD
```

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Conteggio tool room

Posizione tool room

Origine tool room

Tool room UP

Tool room SX

Tool room DX

Tool room Y+

Tool room Y-

Tool room UP

Tool room SX

Tool room DX

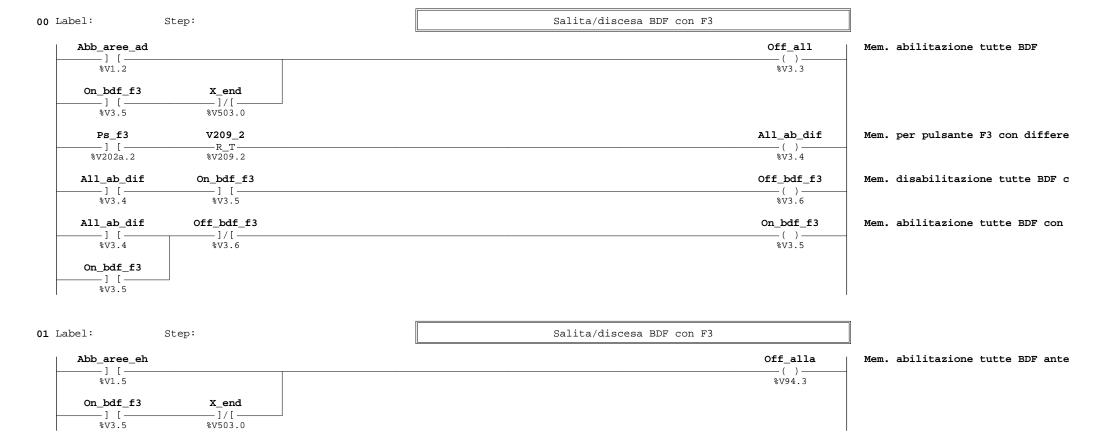
Tool room Y+

Tool room Y-

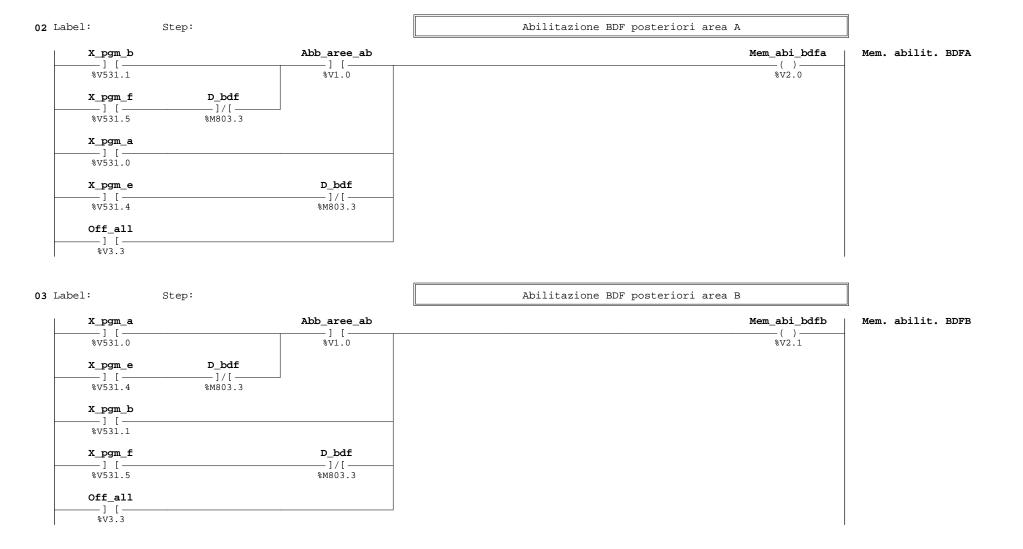
Soffiatore

Tool room DOWN

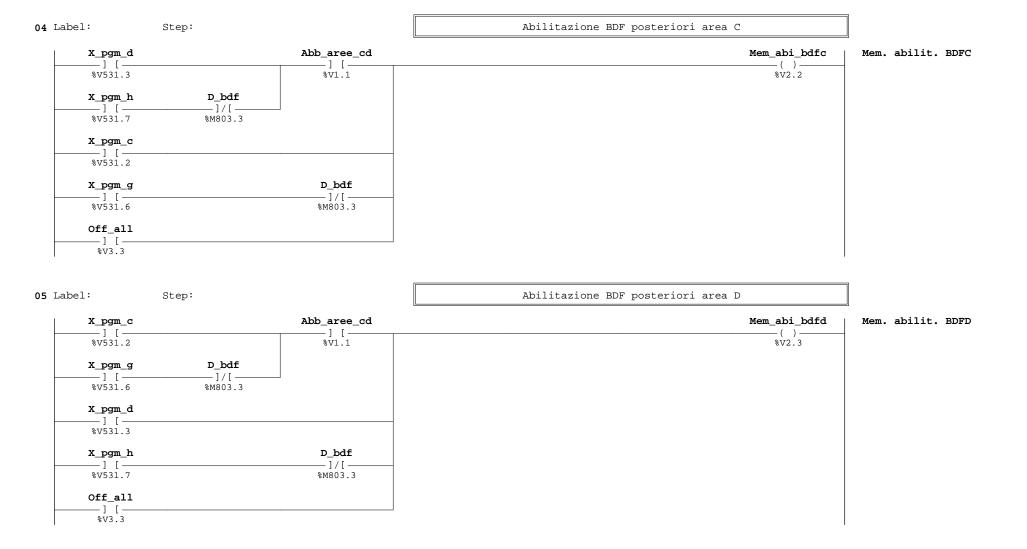
Tool room DOWN



Author:		NUM TOOLS		r
Company:		NOM	1001	ПО
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: BATTUTE.XLA		%SP21 (00)	Page	1



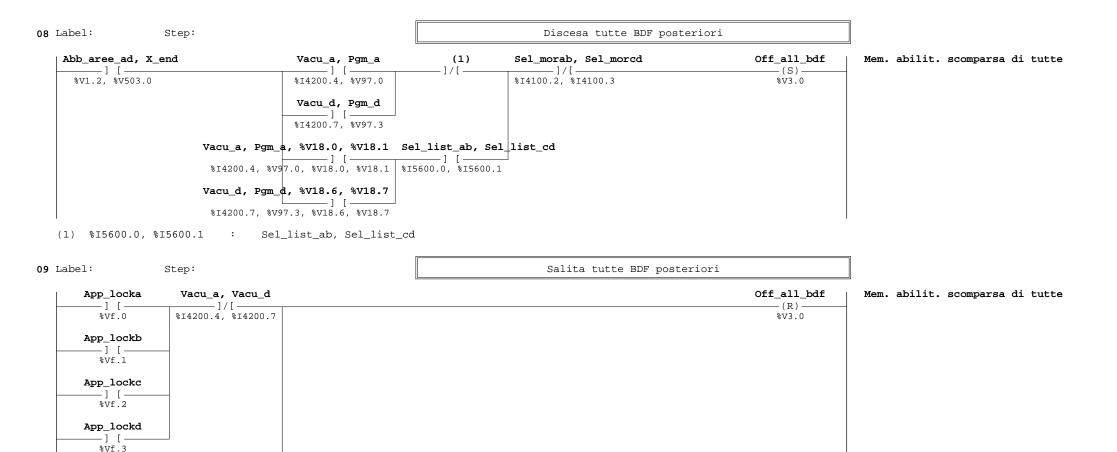
Author:		NUM TOOLS		· G
Company:		NOM	1001	a C
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: BATTUTE.XLA		%SP21 (02)	Page	2



Author:		NITIM	TOOL	C
Company:		NOM	TOOL	ib
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: BATTUTE.XLA		%SP21 (04)	Page	3

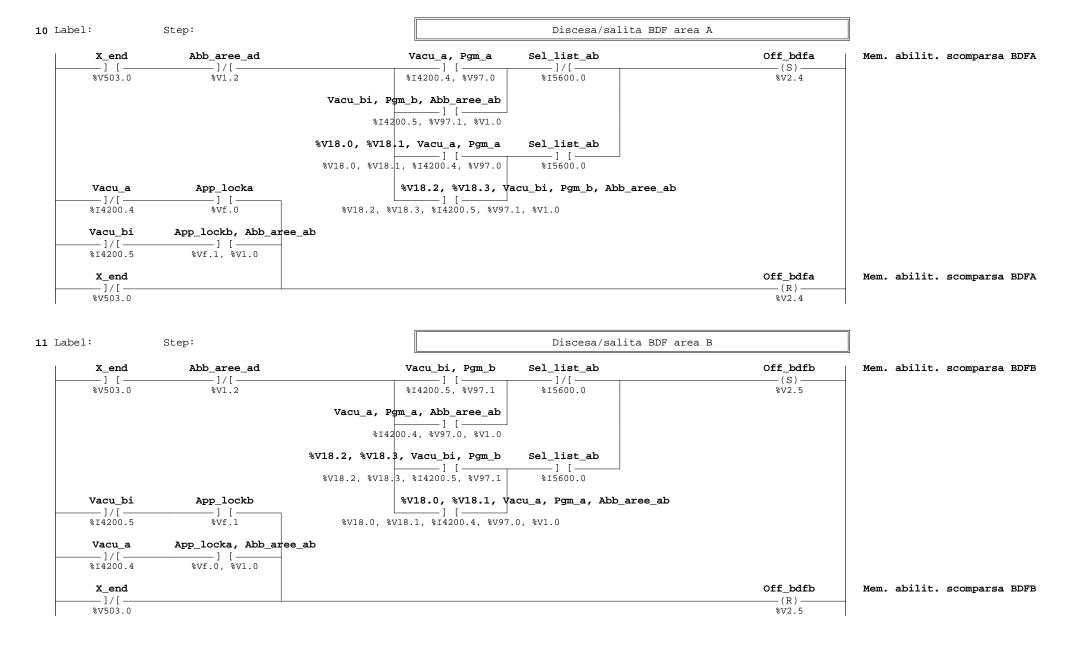


Author:		NTTM	TOOL	Q
Company:		INOM	1001	5
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: BATTUTE.XLA		%SP21 (06)	Page	4

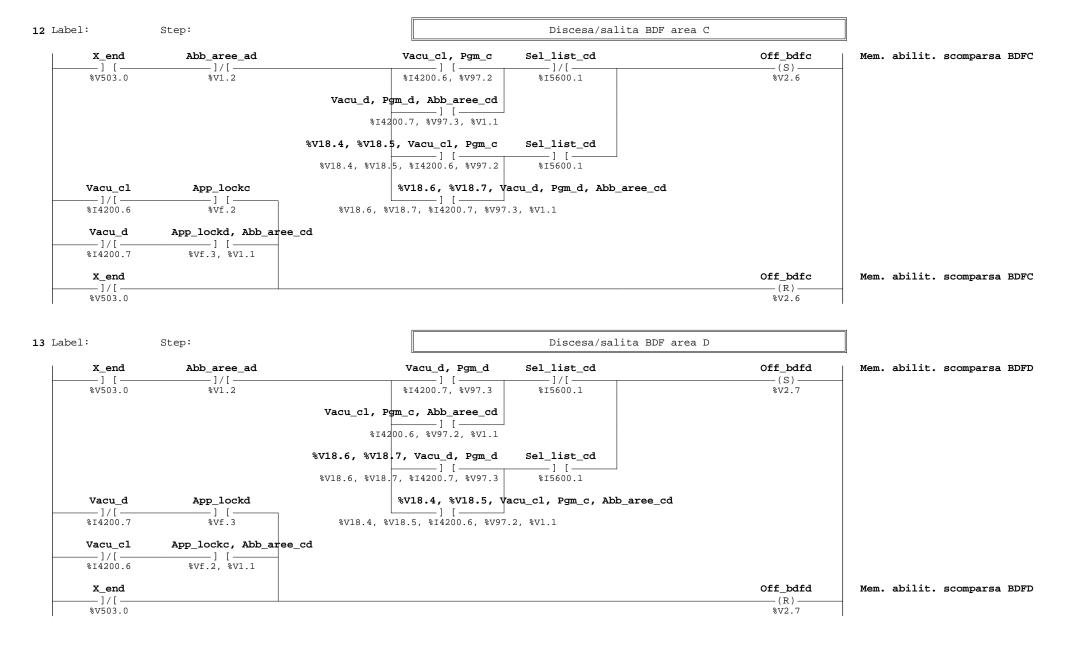


Author:		NUM	TOOL	Q
Company:		INOM	1001	Б
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: BATTUTE.XLA		%SP21 (08)	Page	5

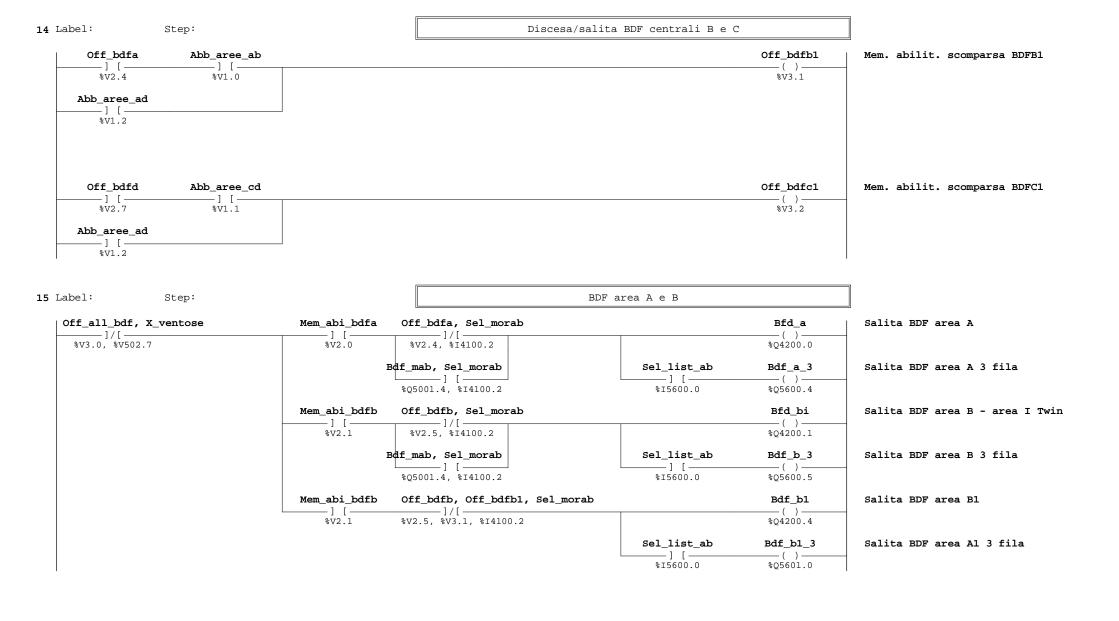
X_end ---]/[---%V503.0



Author:		NUM TOOLS		T.C
Company:		HOM	100	ПО
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: BATTUTE.XLA		%SP21 (10)	Page	6



Author:		NUM TOOLS		r.g
Company:		NOM	100.	
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: BATTUTE.XLA		%SP21 (12)	Page	7



Author:		NUM	тООТ	ו כ
Company:		NOM	1001	пр
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: BATTUTE.XLA		%SP21 (14)	Page	8

16 Label: BDF area C e D Step: Off_all_bdf, X_ventose Mem_abi_bdfc Off_bdfc, Sel_morcd Bdf_cl Salita BDF area C - area L Twin _][_ —] / [— — () — %V3.0, %V502.7 %V2.2 %V2.6, %I4100.3 %04200.2 Bdf_mcd, Sel_morcd Sel_list_cd Bdf_c_3 Salita BDF area C 3 fila ____] [____ __] [_ — () — %Q5001.5, %I4100.3 %I5600.1 %Q5600.6 Mem_abi_bdfd Off_bdfd, Sel_morcd Bdf_d Salita BDF area D —][— ____]/[___ — () — %V2.7, %I4100.3 %V2.3 %O4200.3 Bdf_d_3 Salita BDF area D 3 fila Bdf_mcd, Sel_morcd Sel_list_cd ____][__ __1 [_ — () — %Q5001.5, %I4100.3 %I5600.1 %Q5600.7 Off_bdfc, Off_bdfc1, Sel_morcd Salita BDF area C1 Mem_abi_bdfc Bdf_c1 —] [– —] / [— — () — %V2.2 %V2.6, %V3.2, %I4100.3 %Q4200.5 Sel_list_cd Bdf_c1_3 Salita BDF area B1 3 fila — 1 [— — () — %I5600.1 %Q5601.1

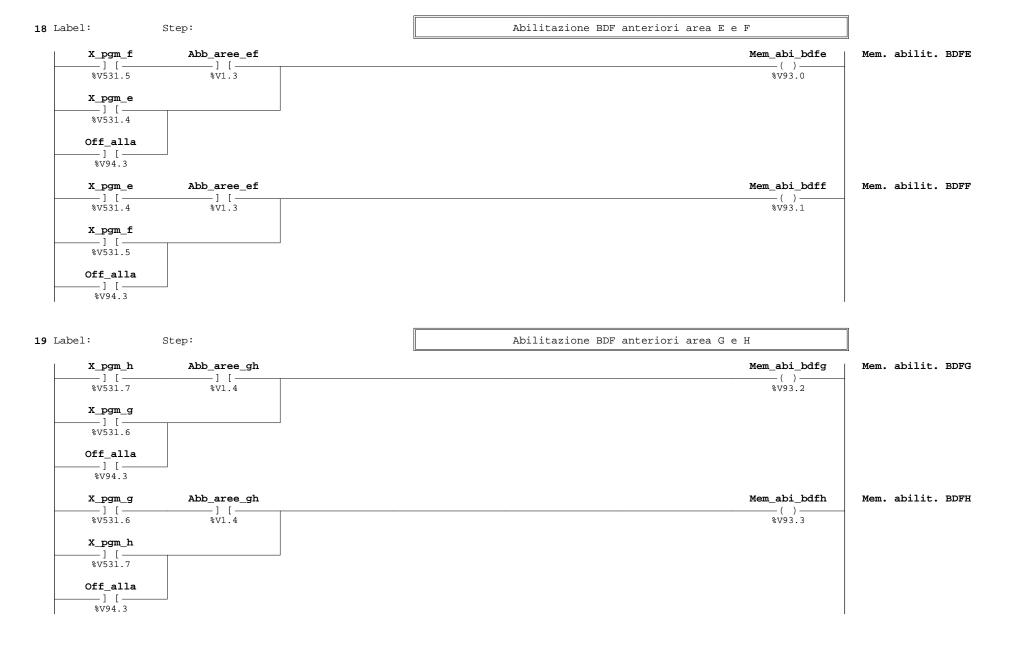
D_bc		goto(FINE)
]/		(T)
%M803	3	

Author:		NUM TOOLS		Q
Company:		NOM TOOLS		lo
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: BATTUTE.XLA		%SP21 (16)	Page	9

Verifica se doppia fila BDF automatiche

17 Label:

Step:



Author:		NUM	TOO	LS
Company:				
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: BATTUTE.XLA		%SP21 (18)	Page	10

20 Label: Step: Discesa tutte BDF anteriori

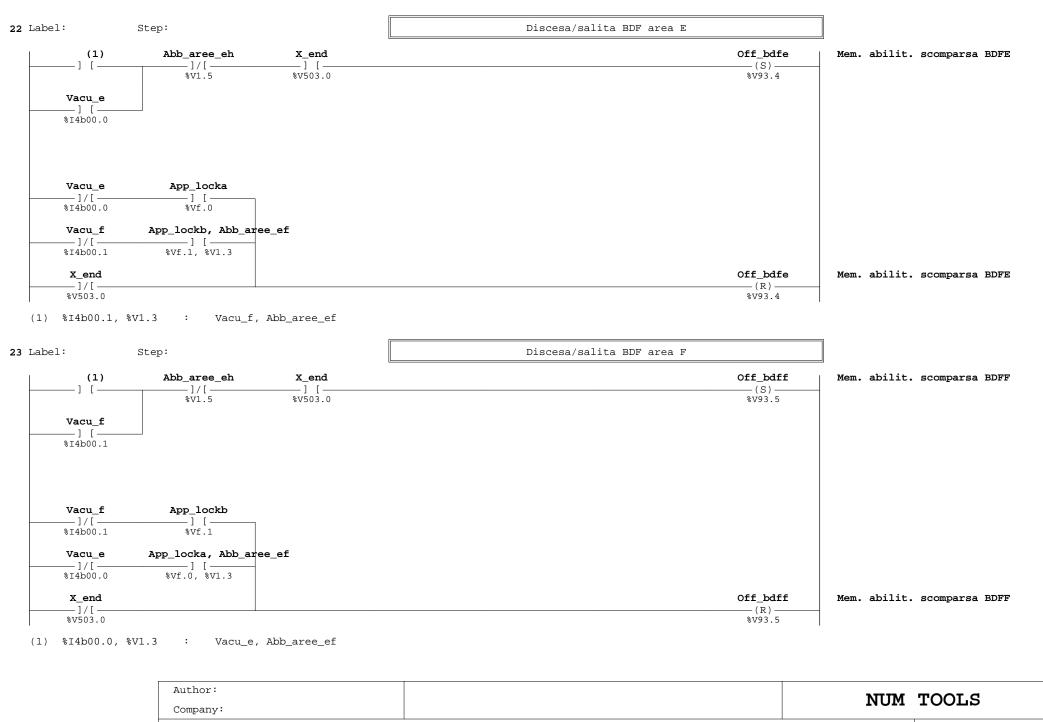
Mem. abilit. scomparsa di tutte

21 Label: Step: Salita tutte BDF anteriori

App_locka	Vacu_e, Vacu_h	Off_all_bdfa (R)
%Vf.0	%I4b00.0, %I4b00.3	%V94.0
App_lockb] [
App_lockc] [
App_lockd] [%Vf.3		
X_end]/[

Mem. abilit. scomparsa di tutte

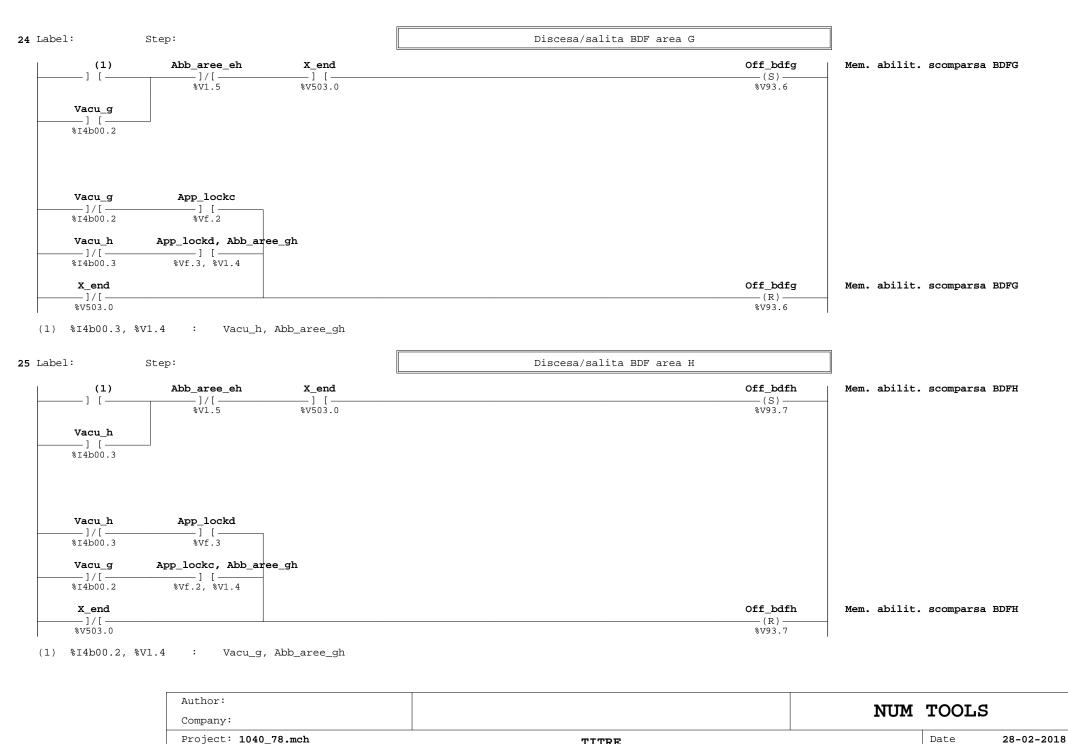
Author:		NITIM	TOOLS	ı
Company:		MOH	тоопр	•
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: BATTUTE.XLA		%SP21 (20)	Page	11



 Project: 1040_78.mch
 TITRE
 Date
 28-02-2018

 Module: BATTUTE.XLA
 %SP21 (22)
 Page
 12

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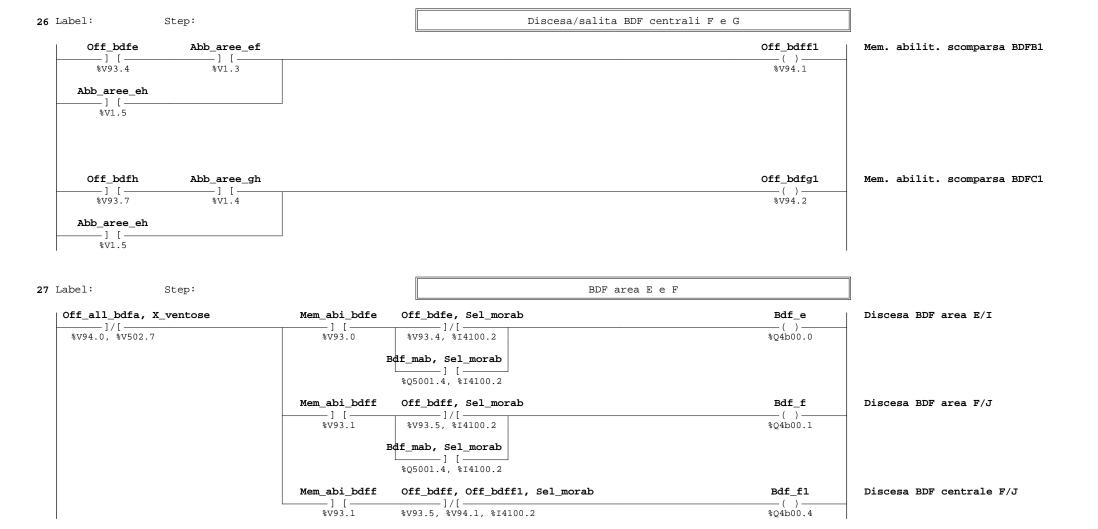
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Module: BATTUTE.XLA

TITRE

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Author:		NITIM	TOOL	C
Company:		NOM	TOOL	ib
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: BATTUTE.XLA		%SP21 (26)	Page	14

28 Label: Step: BDF area G e H

Off_all_bdfa, X_ventose Mem_abi_bdfg Off_bdfg, Sel_morcd Bdf_g Discesa BDF area G/K —] / [— _][_ —] / [— %V94.0, %V502.7 %V93.2 %V93.6, %I4100.3 %Q4b00.2 Bdf_mcd, Sel_morcd ____] [____ %Q5001.5, %I4100.3 Mem_abi_bdfh Off_bdfh, Sel_morcd Bdf_h Discesa BDF area H/L %V93.7, %I4100.3 —][— %V93.3 %04b00.3 Bdf_mcd, Sel_morcd %Q5001.5, %I4100.3 Bdf_g1 Mem_abi_bdfg Off_bdfg, Off_bdfg1, Sel_morcd Discesa BDF centrale G/K —][— ——] / [— %V93.2 %V93.6, %V94.2, %I4100.3 %Q4b00.5

29 Label: FINE Step:

Author:		NITIM	TOOL	Q
Company:		MOM	тооп	5
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: BATTUTE.XLA		%SP21 (28)	Page	15

```
00 Label:
                Step:
                                                                            Validazione Motori ICLA
   | I_i_init > 16 * (N_assi - 1)
                                                                                                        I_i_init = 0
                                                                                                           — (T)—
     ____]>[___
   %M1532.W > 0x10 * (%V7002.B - 0x1)
                                                                                                         %M1532.W = 0x0
01 Label: LOOP1
                                                                            Validazione Motori ICLA
                Step:
   I_i_init <= 16 * (N_assi - 1)</pre>
                                  I_initmot = I_i_init / 16
                                                                                             (1)
                                                                                                              (2)
    ____]>[___
                                    _____ т ___
                                                                                            .]>[—
                                                                                                            — (    ) ——
   I i init += 16
                                                                                                         —— (T)—
                                                                                                       %M1532.W += 0x10
                                                                                                         goto(LOOP1)
                                                                                                          —— (T)—
   (1) V1301.B[M1534.W] == 0x1 : Tab_abl[I_initmot] == 1
   (2) %V7010.7[%M1532.W] : Valid_1[I_i_init]
                                                                            Gst. bit movimento ICLA
02 Label: BIT_MOVE Step:
   I_s_bitmove > 16 * (N_assi - 1)
                                                                                                       I_s_bitmove = 0
        ___ ] > [ ___
                                                                                                           — (T)—
   M7130.W > 0x10 * (V7002.B - 0x1)
                                                                                                        M7130.W = 0x0
                                                                                                         Bitmove_all
                                                                                                           — (R)—
                                                                                                          %V7a00.0
03 Label: LOOP_MOV Step:
   I_s_bitmove <= 16 * (N_assi - 1)</pre>
                                                                     Mov_1[I_s_bitmove]
                                                                                                         Bitmove all
      ____]>[__
                                                                         — ] [ —
                                                                                                           — (S) —
   %M7130.W <= 0x10 * (%V7002.B - 0x1)
                                                                     %V7011.1[%M7130.W]
                                                                                                          %V7a00.0
                                                                                                             (1)
                                                                                                           — (T) —
                                                                                                       goto(LOOP_MOV)
                                                                                                         —— (T)—
   (1) %M7130.W += 0x10 : I_s_bitmove += 16
```

Company:		NUM TOOLS		ıS
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Module: BIT_ICLA.XLA		%SP212 (00)	Page	1
0				

Author:

```
I_s_bitall > 16 * (N_assi - 1)
                                                                                                             I_s_bitall = 0
                                                                                                                 — (T) —
    %M7140.W > 0x10 * (%V7002.B - 0x1)
                                                                                                             %M7140.W = 0x0
                                                                                                                Bit all
                                                                                                                — (R)—
                                                                                                                %V7a00.2
05 Label: LOOP_ALL Step:
                                                                 Verifica presenza Errori e Bit 7 %V7xx1.b da assi ICLA
   I_s_bitall <= 16 * (N_assi - 1)</pre>
                                      Errore_1[I_s_bitall]
                                                                                                                Bit all
        ___]>[__
                                        ____] [___
                                                                                                                 —(S)—
    %M7140.W <= 0x10 * (%V7002.B - 0x1)
                                      %V7011.7[%M7140.W]
                                                                                                                %V7a00.2
                             Errcod_1[I_s_bitall] != 0
                                                                         I_biterr = I_s_bitall / 16 * 2
                                                                                                                   (1)
                                      ]>[—
                                                                          — т —
                                                                                                                 —(T)—
                                                                   M151a.W = M7140.W / 0x10 * 0x2
                                %V701e.W[%M7140.W] != 0x0
                                                    Fault_1[I_s_bitall] I_maskerr = I_s_bitall / 16
                                                                                                                   (2)
                                                            —][——— T —
                                                                                                                  -(T)-
                                                        %V701d.3[%M7140.W] %M153c.W = %M7140.W / 0x10
   (1) %V1202.W[%M151a.W] = %V701e.W[%M7140.W] : Tab_err1[I_biterr] = Errcod_1[I_s_bitall]
   (2) V1401.B[M153c.W] = 0x1 : Mask_err1[I_maskerr] = 1
```

Author:		NITIM	TOOL	a
Company:		MOM	тооп	3
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: BIT_ICLA.XLA		%SP212 (04)	Page	2

Gst. bit Allarmi

04 Label: BIT ALL Step:

```
06 Label:
                  Step:
```

```
(1)
    (2)
        ____]>[___
                                — т —
                                                            —(T)—
  %V701e.W[%M7140.W] == 0x0
                           M151a.W = M7140.W / 0x10 * 0x2
                       I_maskerr = I_s_bitall / 16
                                                              (3)
                                                            -(T)-
                              _____т ___
                           M153c.W = M7140.W / 0x10
                                                              (4)
                                                            -(T)-
                                                         goto(LOOP_ALL)
                                                           —— (T)—
```

- (1) $M7140.W \le 0x10 * (%V7002.B 0x1) : I_s_bitall \le 16 * (N_assi 1)$ (2) $V1202.W[%M151a.W] = 0x0 : Tab_err1[I_biterr] = 0$ (3) $V1401.B[%M153c.W] = 0x0 : Mask_err1[I_maskerr] = 0$

- (4) %M7140.W += 0x10 : I_s_bitall += 16

Raz_pv == 5 	I_s_bitmove = 0 (T) %M7130.W = 0x0
	Bitmove_all (R)
	%V7a00.0
	Bit_all (R)

Author:		NTTM	TOOLS	
Company:		NOM	тоопр	
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: BIT_ICLA.XLA		%SP212 (06)	Page	3

A0_pon	A0_val_trq (I	Bit 0)	Asse 0 abilitazione ON
Re21.4	() %We21.0		
A1_pon	Al_val_trq (I	Bit 0)	Asse 1 abilitazione ON
Re23.4	() %we23.0		
A2_pon	A2_val_trq (I	Bit 0)	Asse 2 abilitazione ON
] [() %we25.0		
	A2_brk_free (1	Bit 1)	Asse 2 abilitazione fr
	%We25.1		

01 Label: Step:

A7_pon	A7_val_trq	(Bit 0) Asse 7 abilitazione ON
%Re2f.4	%We2f.0	
	A7_brk_free	(Bit 1) Asse 7 abilitazione fr
	%We2f.1	
A8_pon	A8_val_trq	(Bit 0) Asse 8 abilitazione ON
%Re31.4	%We31.0	
	A8_brk_free	(Bit 1) Asse 8 abilitazione fr
	%We31.1	
Gruppo_basso	Stopax7	Arresto avanzamenti asse Nø 7
%I4501.7	~~~~~() ~~~~~~ %W3d.7	
Sbl Itir		

Author:		NITIM	TOOL	đ
Company:		MOM	тооп.	3
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: COM_AS~1.XLA		%SP4 (00)	Page	1

Step:

Forat_npos		Setting	Evolution	Stopax8
%V44.2		%I4101.3	%M803.1	() %W3c.0
App_msg_167] [Pul_um1, Pul_um2]/[%14001.3, %14100.7		
Icil_basso][E_cycle]/[%R3.2			
Icuff_alta] [
%I4500.5				
Gruppo_basso] [

Author:		NIIM	TOOLS	5
Company:		11011	1001.	
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: COM_AS~1.XLA		%SP4 (02)	Page	2

Arresto avanzamenti asse Nø 8

A0_pon	A0_val_trq (E	Bit 0)	Asse 0 abilitazione ON
] [%Re21.4	() %We21.0		
A1_pon	Al_val_trq (F	Bit 0)	Asse 1 abilitazione ON
%Re23.4	%We23.0		
A2_pon	A2_val_trq (F	Bit 0)	Asse 2 abilitazione ON
%Re25.4	%we25.0		
	A2_brk_free (I	Bit 1)	Asse 2 abilitazione fr
	%We25.1		

01 Label: Step:

A7_pon] [A7_val_trq (Bit 0) Asse 7 abilitazione Of %We2f.0
	A7_brk_free (Bit 1) Asse 7 abilitazione fi
A8_pon] [A8_val_trq (Bit 0) Asse 8 abilitazione 0
	A8_brk_free (Bit 1) Asse 8 abilitazione f: %We31.1
Gruppo_basso] [Stopax7()
Sbl Itir	

Author:		NITTM	TOOLS	1
Company:		NOM	1001	5
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: COM_ASSI.XLA		%SP4 (00)	Page	1

Step:

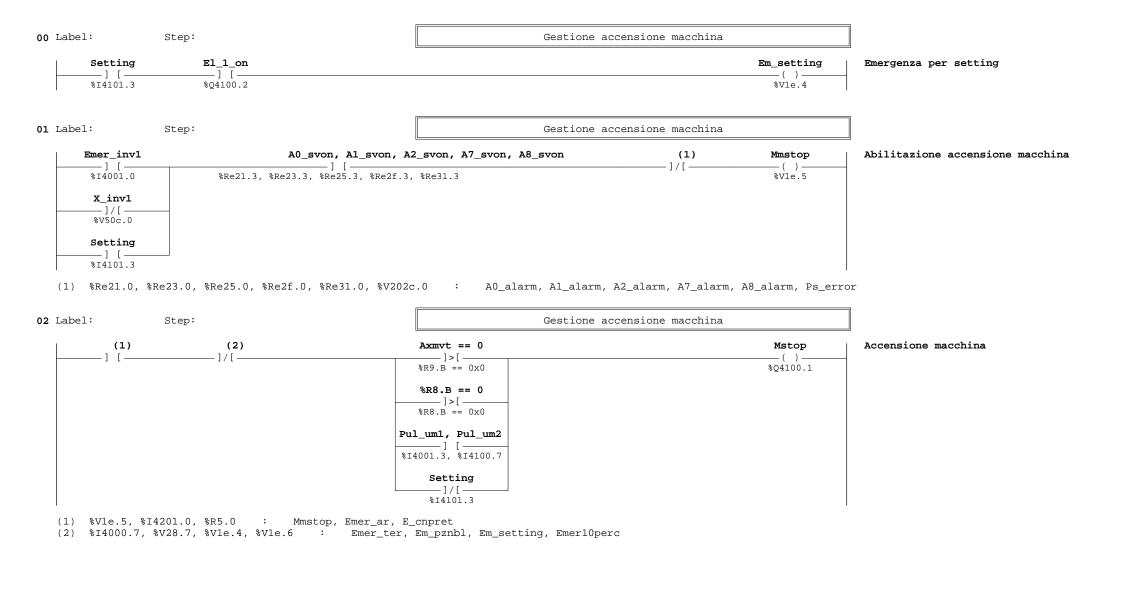
Forat_npos		Setting	Evolution	Stopax8
%V44.2]/[%I4101.3]/[%M803.1	()
App_msg_167		Pul_um1, Pul_um2		
%V1f.1		%14001.3, %14100.7		
Icil_basso] [E_cycle]/[%R3.2			
%V999.1] [
Gruppo_basso] [

Author:		NUM	TOOLS	
Company:				
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: COM_ASSI.XLA		%SP4 (02)	Page	2

Arresto avanzamenti asse Nø 8

00 Label: Step: Presenza elettromandrino 1

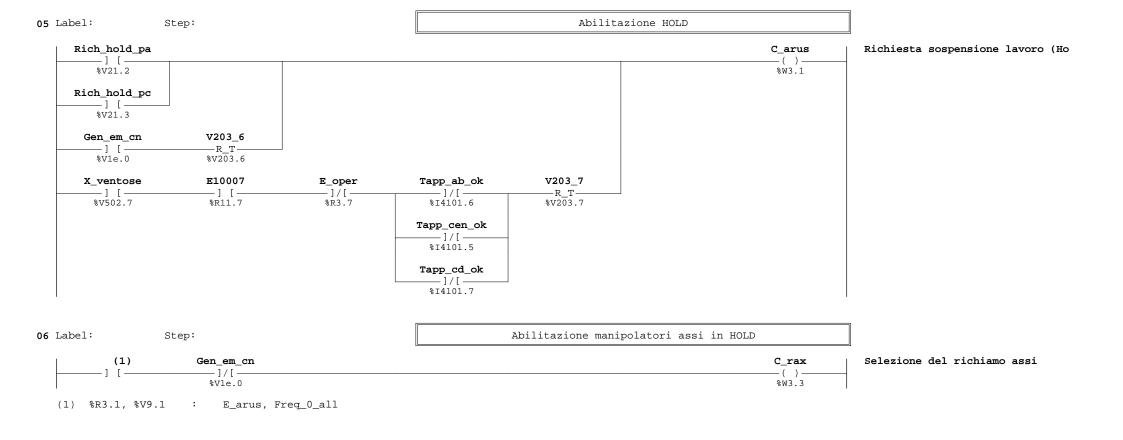
Author:		NTTM	TOOLS	
Company:		NOM	тоопр	
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: CONFIG.XLA		%SP100 (00)	Page	1



Author:		NUM	TOOI	. כ
Company:		NOM	1001	GL
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: CONS_CN.XLA		%SP3 (00)	Page	1

03 Label:	Step:	Non arresto a fine blocco, validazione Gr1/2/3, pot. m	mandrini	
		Na	arfib	Non arresto a fine blocco
		*	%W4.3	
			alid1	Validazione gr.1
		8W	W100.2	
			alid2	Validazione gr.2
		\$W	W200.2	
			alid3	Validazione gr.3
			W300.2	
			r1 = 255	
		%Wle.	.B = 0xff	
			r2 = 255	
		%Wlf.	.B = 0xff	
04 Label:	Step:	Comando fine movimenti esterni Gr1/2/3		
1			fmext1	Commando fine mvt. esterni gr.1
			W100.1	
			fmext2 -()————————————————————————————————————	Commando fine mvt. esterni gr.2
			fmext3 -()- W300.1	Commando fine mvt. esterni gr.3

Author:		NUM	TOOL	2
Company:		NOM	тооп.	5
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: CONS_CN.XLA		%SP3 (03)	Page	2



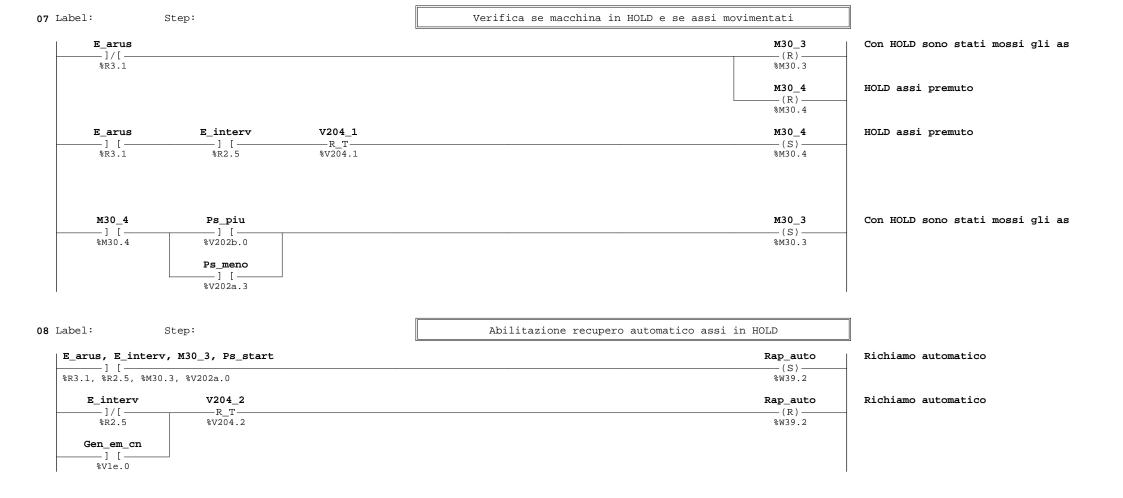
Author:
Company:

Project: 1040_78.mch
Module: CONS_CN.XLA

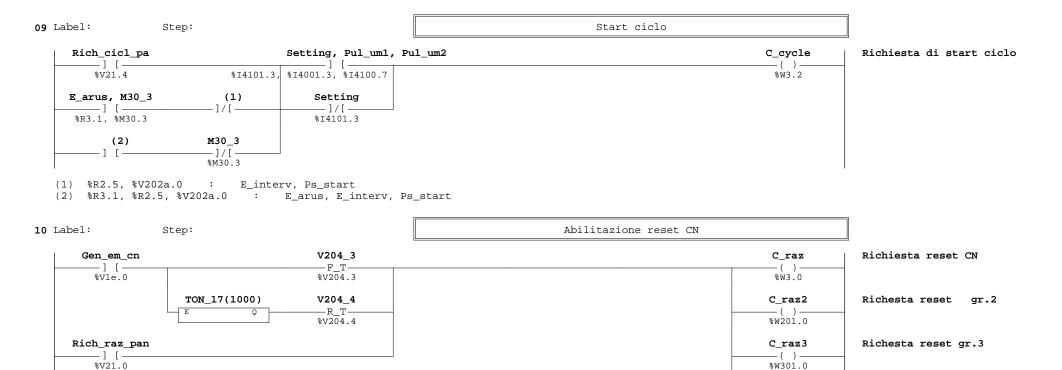
TITRE

*SP3 (05)

Page 3



Author:		NUM	TOOL	a l	
Company:		NOM	тооп.	3	
Project: 1040_78.mch	TITRE		Date	28-02-2018	
Module: CONS_CN.XLA		%SP3 (07)	Page	4	



[T] TON_17(0x3e8) : TON_17(1000)

Author:		NITIM	TOOL	C
Company:		NOM	1001	5
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: CONS_CN.XLA		%SP3 (09)	Page	5

Reset eseguito

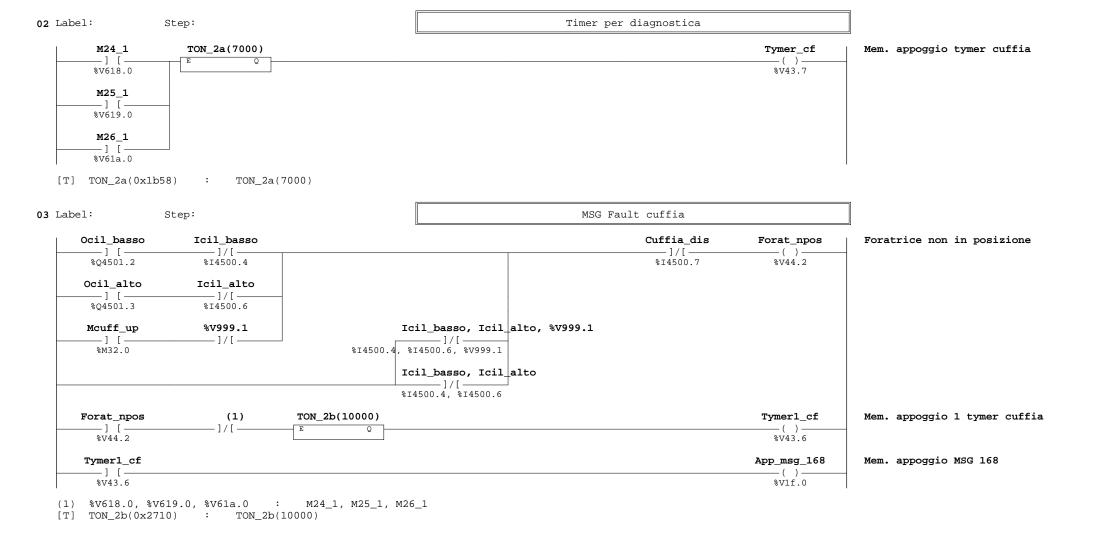
Res_x— () — %V510.4

Evolution [goto(CUFFIA_I
%M803.1 % V999.5 —] [———	% V999.7 ——F_T	%V99a.1]/[%v99a.0
% v99a.0			
%V999.6	% V99a.2 ——F_T—		%V99a.1

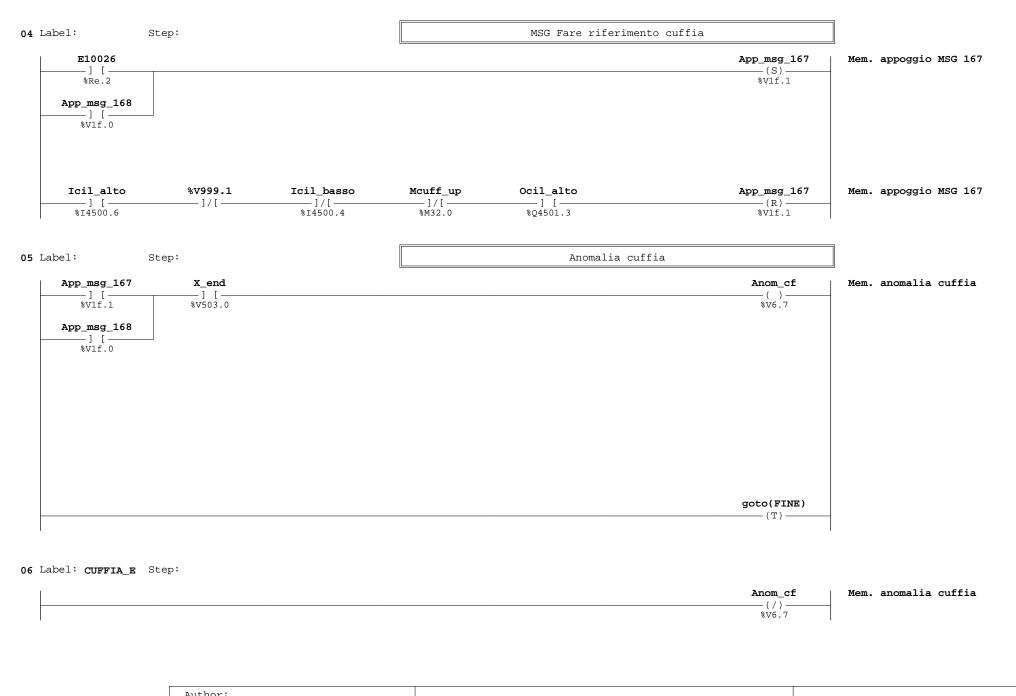
01 Label:	Step:	Out cuffia

M24_1	Gruppo_alto	Gruppo_basso	Ocil_basso	EV cilindro cuffia basso (X5)
%V618.0	%I4501.6	%I4501.7	%Q4501.2	
			Ocil_alto	EV cilindro cuffia alto (X5)
			(R)————————————————————————————————————	
M25_1			Ocil_alto	EV cilindro cuffia alto (X5)
%V619.0			%Q4501.3	
M26_1			Ocil_basso	EV cilindro cuffia basso (X5)
%V61a.0			(R)————————————————————————————————————	
M25_1			Mcuff_up	Mem. cuffia alta
%V619.0			(S)(S)	
Ocil_basso			Mcuff_up	Mem. cuffia alta
%Q4501.2			(R) %M32.0	

Author:		MITM	TOOLS	2
Company:		MOM	TOOL	9
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: CUFFIA.XLA		%SP199 (00)	Page	1



Author:		NUM	TOOLS	
Company:		NOM	1001	10
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: CUFFIA.XLA		%SP199 (02)	Page	2



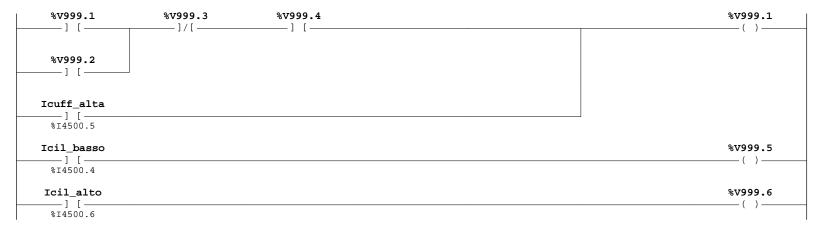
Author:		NTTM	TOOLS	a
Company:		NOM	1001	3
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: CUFFIA.XLA		%SP199 (04)	Page	3
Copyright by				

Step:

M121_1] [Grx5_on] [Grx5_off]/[%I4501.5	X5e_npos]/[V205_4.5 R_T %V205.5	Ocil_alto (S) %Q4501.3	EV cilindro cuffia alto (X5)
Enab_cuff] [%V28.2	E10003 					Ocil_basso (R) %Q4501.2	EV cilindro cuffia basso (X5)
M120_1] [_ %V678.0	V205_4.6 					Ocil_basso (S) %Q4501.2	EV cilindro cuffia basso (X5)
Enab_cuff 	V205_4.7 ——R_T %V205.7					Ocil_alto (R) %Q4501.3	EV cilindro cuffia alto (X5)
[1]	V206_0.1 						

(1) %V88.5, %V84.3, %Vf.6 : Ab_asstl, Test_ell, Pez_sblo

08 Label: FINE Step:



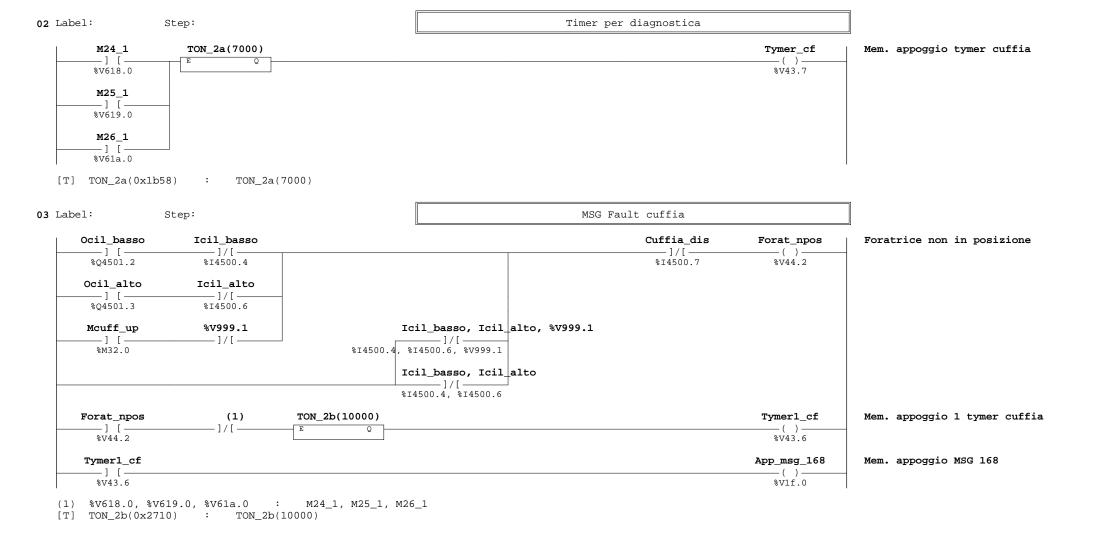
Author:		NITIM	TOOLS	
Company:		MOM	тоопа	•
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: CUFFIA.XLA		%SP199 (07)	Page	4

Evolution] [goto(CUFFIA_E)(T)
% v999.5	%V99a.3]/[% v99a.3	%V99a.1]/[%V99a.0
%v999.6] [%V99a.3] [%V99a.0		
		%V99a.3	% v99a.0	%V99a.1 ()
		%V99a.1		

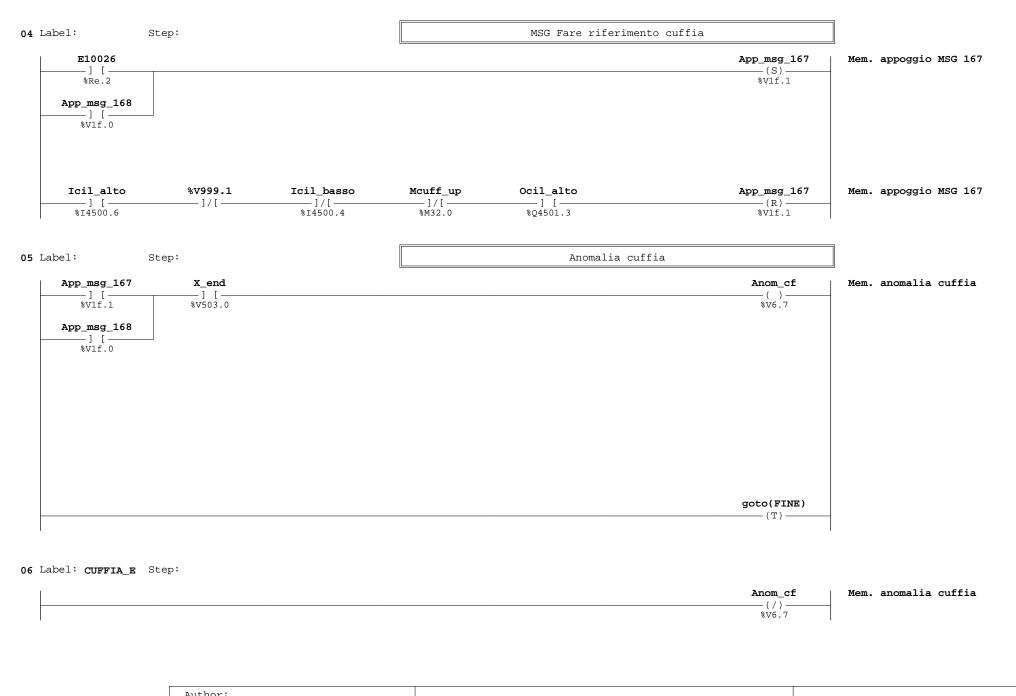
01 Label: Step: Out cuffia

M24_1	Gruppo_alto	Gruppo_basso	Ocil_basso	EV cilindro cuffia basso (X5)
%V618.0	%I4501.6	%I4501.7	(S) %Q4501.2	
			Ocil_alto	EV cilindro cuffia alto (X5)
			(R)	
M25_1			Ocil_alto	EV cilindro cuffia alto (X5)
%V619.0			(S) %Q4501.3	
M26_1			Ocil_basso	EV cilindro cuffia basso (X5)
%V61a.0	_		%Q4501.2	
M25_1			Mcuff_up	Mem. cuffia alta
%V619.0			(S) %M32.0	
Ocil_basso			Mcuff_up	Mem. cuffia alta
%Q4501.2			(R)	1

Author:		NITIM	TOOLS	
Company:		MOM	10015	
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: CUFFIAED.XLA		%SP199 (00)	Page	1



Author:		NUM	TOO	T C
Company:		INOM	100.	по
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: CUFFIAED.XLA		%SP199 (02)	Page	2



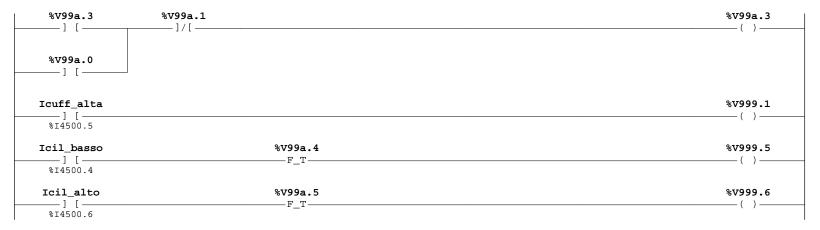
Author:		NTTM	TOOLS	a
Company:		NOM	тооп	3
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: CUFFIAED.XLA		%SP199 (04)	Page	3
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Step:

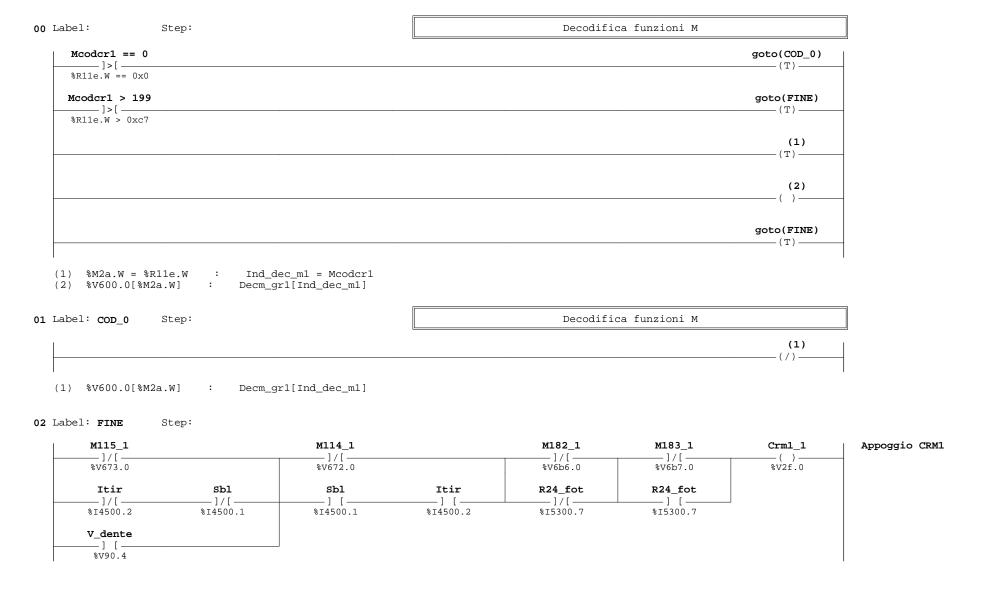
M121_1] [Grx5_on] [%14501.4	Grx5_off]/[%I4501.5	X5e_npos]/[%V1f.5	V205_4.5 ——R_T %V205.5	Ocil_alto (S) %Q4501.3	EV cilindro cuffia alto (X5)
Enab_cuff] [E10003]/[Ocil_basso (R) %Q4501.2	EV cilindro cuffia basso (X5)
M120_1] [%V678.0	V205_4.6 R_T					Ocil_basso (S) %Q4501.2	EV cilindro cuffia basso (X5)
Enab_cuff]/[V205_4.7 ——R_T %V205.7	_				Ocil_alto (R) %Q4501.3	EV cilindro cuffia alto (X5)
[1]	V206_0.1 R_T %V206.1						

(1) %V88.5, %V84.3, %Vf.6 : Ab_asstl, Test_ell, Pez_sblo

08 Label: FINE Step:



Author:		NITIM	TOOLS	•
Company:		MOM	тоопа	•
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: CUFFIAED.XLA		%SP199 (07)	Page	4



Author:		NUM	TOOL	C
Company:		NOM	1001	io
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: DECODGR1.XLA		%SP31 (00)	Page	1

Step:

Crm1_1	M156_1		M157_1		Crm1_2	Appoggio CRM1
%V2f.0	%V69c.0		%V69d.0		%V2f.1	
	R24_fcout	R24_fcin	R24_fcin	R24_fcout		
	%I5300.5 E30037 == 12	%I5300.6	%I5300.6	%15300.5		
]>[

04 Label:

Step:

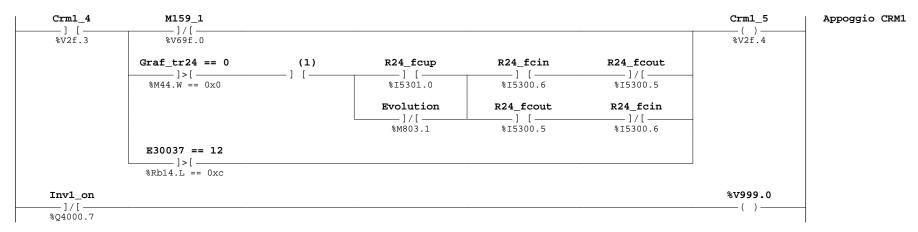
Crm1_2] [M156_1 		M157_1]/[Crm1_3 () %V2f.2	Appoggio CRM1
8VZI.I	I_re_tr12	I_fr_tr12	I_fr_tr12	I_re_tr12	8V21.2	
	%15100.7 E30037 == 24	%I5101.0	%I5101.0	%I5100.7		
	S0037 == 24 					

05 Label:

Step:

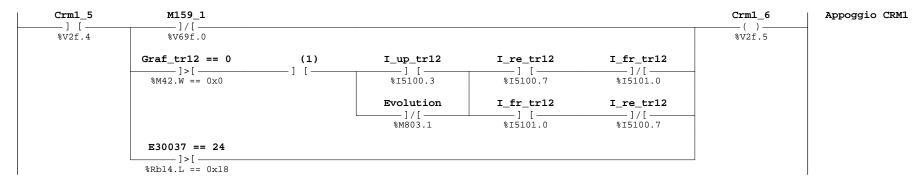
Crm1_3	M121_1		M120_1			Crm1_4	Appoggio CRM1
%V2f.2	%V679.0		%V678.0			%V2f.3	
	Icil_alto	Icil_basso	Icil_basso	Icil_alto			
	%I4500.6	%I4500.4	%I4500.4	%I4500.6	-		
	Cuffia_dis						
	%I4500.7				-		
	Evolution						
]/[——— %M803.1						

Author:		NITIM	TOOL	d
Company:		NOM	TOOL	5
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: DECODGR1.XLA		%SP31 (03)	Page	2



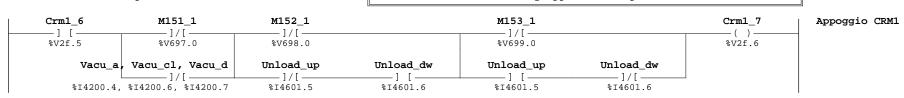
(1) %V999.0, %I5300.1 : %V999.0, R24_fcspo

07 Label: Step:



(1) %V999.0, %I5101.1, %I5100.1 : %V999.0, Open_tr, Posiz_tr12

08 Label: Step:



Author:		NTTM	TOOLS	•
Company:		INOM	TOOLS	•
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: DECODGR1.XLA		%SP31 (06)	Page	3

Attesa gruppo scarico pannelli

Step:

١	Crm1_7	M24_1			M116_1		Crm1_8	Appoggio CRM1
ł] [%V2f.6]/[%V618.0]/[——— %V674.0		*V2f.7	
				0000 4	a = cc	. -		
		Icil_basso	Icil_alto	%V999.1	Grx5_off	Grx5_on		
		%14500.4	%I4500.6	17 [%14501.5	%14501.4		
		Evolution						
] [——			J			
		%M803.1						

10 Label:

Step:

Crm1_8	M25_1			M117_1		Crm1_9	Appoggio CRM1
%V2f.7	%V619.0			%V675.0		%V30.0	
	Icil_alto	Icil_basso	%V999.1	Grx5_on	Grx5_off		
	%I4500.6	%I4500.4] [%I4501.4	%I4501.5		
	Evolution						
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			J			

11 Label:

Step:

Crm1_9	M162_1	M163_1	M20_1	M150_1	Crm1	Conto reso funzioni M gr.1
%V30.0	%V6a2.0	%V6a3.0	%V614.0	%V696.0	%W100.5	
	Res_m162	Res_m163	X_m20ok	X_modo_sim	(1)	
	%V34.0	%V34.1	%V503.6	%V503.1	(1)	
E_raz						
%R3.0						

(1) V503.B = V503.B & 0xbf : $V503_b = V503_b & 191$

Author:		NITIM	TOOL	d
Company:		NOM	TOOL	6
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: DECODGR1.XLA		%SP31 (09)	Page	4

Step:

E10003		Diag_30 () %V2e.3	Messaggio diagnostica 30
Graf_tr24 >= 50 Graf_tr24 < 54		Diag_31 () %V2e.4	Messaggio diagnostica 31
Graf_tr12 >= 50 Graf_tr12 < 57			
E10009] [Diag_32 ()_ %V2e.5	Messaggio diagnostica 32
Xil_modo == 3 E10009 	Pom_x 	Diag_33 ()_ %V2e.6	Messaggio diagnostica 33
Xil_modo == 3 E10009 	Pom_x 	Diag_34 ()_ %V2e.7	Messaggio diagnostica 34

Author: Company:		NUM TOOLS		5
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: DIAGNOST.XLA		%SP10 (00)	Page	1

```
11
                                                                                                       B0 (8bit)=Numero logico utensile
// FILE NAME : E30000.xsy
                                                                                                          B1 (8bit)=Numero posto magazzino
// DESCRIZIONE : Parametri esterni
                                                                            E30010 %Ra28.L Utensili su elettromandrini 3 e 4
                                                                            E30011 %Ra2c.L Utensili su elettromandrini 5 e 6
                                                                            E30012 %Ra30.L Utensili su elettromandrini 7 e 8
//
//
                                                                            // CONFIGURAZIONI MOTORIZZAZIONI FUSI/MANDRINO ED ELETTROMANDRINI
E30000 %Ra00.L Mandrini 1-32
Ra03
              %Ra03.B Mandrini 1-8
                                                                            E30013 %Ra34.L Associazione fra elettromadrini e assetti;
               %Ra02.B Mandrini 9-16
                                                                                                          Assume anche il significato di abilitazione
Ra02
                                                                            //
Ra01
              %Ra01.B Mandrini 17-24
                                                                            elettromandrini
               %Ra00.B Mandrini 25-32
Ra00
                                                                                                           %Ra37.b B0 (8bit) = Elettromandrini 1e2
//
                                                                            //
                                                                                                           %Ra36.b B1 (8bit) = Elettromandrini 3e4
E30001 %Ra04.L Mandrini 33-64
                                                                                                           %Ra35.b B2 (8bit) = Elettromandrini 5e6
                                                                            //
                                                                                                           %Ra34.b B3 (8bit) = Elettromandrini 7e8
           %Ra07.B Mandrini 33-40
                                                                            //
              %Ra06.B Mandrini 41-48
                                                                                                           Ogni byte contiene due informazioni :
Ra06
                                                                            //
              %Ra05.B Mandrini 49-56
                                                                                                          7 6 5 4 3 2 1 0
Ra05
                                                                            //
Ra04
              %Ra04.B Mandrini 57-64
                                                                            //
                                                                                                          I bit 0-3 rappresentano gli assetti 0,1,2,3,
//
                                                                            //
                                                                                                          dell'elettromandrino 1
E30002 %Ra08.L Mandrini 65-96
                                                                                                          I bit 4-7 rappresentano gli assetti 0,1,2,3,
                                                                            //
Ra0b %Ra0b.B Mandrini 65-72
                                                                                                          dell'elettromandrino 2
                                                                            //
Ra0a
               %Ra0a.B Mandrini 73-80
Ra09
              %Ra09.B Mandrini 81-88
                                                                            Ra37 0 %Ra37.0 Elettromandrino 1 assetto 1
              %Ra08.B Mandrini 89-96
                                                                            Ra37 1 %Ra37.1 Elettromandrino 1 assetto 2
Ra08
                                                                            Ra37 4 %Ra37.4 Elettromandrino 2 assetto 1
//
E30003 %Ra0c.L Mandrini 1-32 (twin)
                                                                            Ra37 5 %Ra37.5 Elettromandrino 2 assetto 2
       %RaOf.B Mandrini 1-8 (twin)
                                                                            Ra36_0 %Ra36.0 Elettromandrino 3 assetto 1
Ra0f
Ra0e
               %Ra0e.B Mandrini 9-16 (twin)
                                                                            Ra36_1 %Ra36.1 Elettromandrino 3 assetto 2
Ra0d
              %RaOd.B Mandrini 17-24 (twin)
                                                                            Ra36 4 %Ra36.4 Elettromandrino 4 assetto 1
Ra0c
              %RaOc.B Mandrini 25-32 (twin)
                                                                            Ra36 5 %Ra36.5 Elettromandrino 4 assetto 2
                                                                            Ra35_0 %Ra35.0 Elettromandrino 5 assetto 1
//
                                                                            Ra35 1 %Ra35.1 Elettromandrino 5 assetto 2
E30004 %Ra10.L Mandrini 33-64 (twin)
Ra13
      %Ra13.B Mandrini 33-40 (twin)
                                                                            Ra35 4 %Ra35.4 Elettromandrino 6 assetto 1
Ra12
              %Ra12.B Mandrini 41-48 (twin)
                                                                            Ra35_5 %Ra35.5 Elettromandrino 6 assetto 2
                                                                            Ra34 0 %Ra34.0 Elettromandrino 7 assetto 1
Rall
             %Rall.B Mandrini 49-56 (twin)
                                                                            Ra34 1 %Ra34.1 Elettromandrino 7 assetto 2
Ra10
             %Ra10.B Mandrini 57-64 (twin)
                                                                            Ra34 4 %Ra34.4 Elettromandrino 8 assetto 1
//
E30005 %Ra14.L Mandrini 65-96 (twin)
                                                                            Ra34 5 %Ra34.5 Elettromandrino 8 assetto 2
Ra17
             %Ra17.B Mandrini 65-72 (twin)
Ra16
              %Ral6.B Mandrini 73-80 (twin)
                                                                            E30014 %Ra38.L Numero Max giri inverter (gendata.cfg)
Ra15
            %Ra15.B Mandrini 81-88 (twin)
                                                                            E30015 %Ra3C.L Variazione Min velocità inverter (gendata.cfg)
                                                                            E30016 %Ra40.L Tempo in msec di attesa da GO a G1
Ra14
             %Ra14.B Mandrini 89-96 (twin)
                                                                                                         UTILIZZO ANCHE IN FORATURA
// INFORMAZIONI CAMBIO UTENSILE
                                                                            E30017 %Ra44.L ASSOCIAZIONE FRA FUSI/MANDRINI E MOTORI
                                                                            // (B0) E ASSOCIAZIONE FRA INVERTER E
E30006 %Ral8.L Numero fuso/mandrino o elettromandrino di riferimento
                                                                            //
E30007 %Ralc.L Codice della lavorazione corrente:
                                                                            Ra47 0 %Ra47.0 Rotazine mandrini 1
                              0=fresatura con elettromandrino
                                                                            Ra47 1 %Ra47.1 Rotazine mandrini 2
//
                              1=fresatura con mandrino
//
//
                              2=foratura con elettromandrino
                                                                                                          FUSI/MANDRINI (B1)
//
                              3=foratura con fusi
                                                                            E30018 %Ra48.L ASSOCIAZIONE FRA ELETTROMANDRINI 1,2,3,4, E INVERTER
E30008 %Ra20.L Faccia corrente (1-5)
                                                                            //
                                                                                                           %Ra4b.b B0 (8bit) = elettromandrini n.1
E30009 %Ra24.L Utensili su elettromandrini 1 e 2
                                                                                                           %Ra4a.b B1 (8bit) = elettromandrini n.2
                                                                            //
//
                             W0 (16bit)=Elettromandrino n.1
                                                                            //
                                                                                                          %Ra49.b B2 (8bit) = elettromandrini n.3
//
                             W1 (16bit)=Elettromandrino n.2
                                                                            //
                                                                                                         %Ra48.b B3 (8bit) = elettromandrini n.4
//
                              Ogni word (W0,W1) contiene due informazioni
                                                                            //
                                                                                                          Ogni byte contiene più informazioni:
```

Author:		NTTM	TOOLS	
Company:		NOM	тоопр	
Project: Simboli.lib	TITRE		Date	28-02-2018
Module: E30000.XSY			Page	1

```
//
                               7 6 5 4 3 2 1 0
                                                                              11
                                                                                                             1=cambio utensile manuale
                              I bit 0-3 rappresentano il numero dell
                                                                                                             2=cambio utensile automatico
'inverter;
                                                                              E30103 %Rd1C.L Quota angolare magazzino RAPID1
                              il bit 4 è il verso di rotazione (0=dx 1=sx)
                                                                              E30104 %Rd20.L Numero posto magazzino caricato su El. rapidl
                                                                              E30105 %Rd24.L Posizione ruota magazzino (posti) rapid2
                               gli altri bit sono liberi
//
                                                                              E30106 %Rd28.L Disabilitazione discesa gruppi durante NOP
11
                                                                              E30107 %Rd2C.L Quota angolare magazzino RAPID2
Ra4b 4 %Ra4b.4 Elettromandrino 1 rotazione ccw
                                                                              E30108 %Rd30.L Numero posto magazzino caricato su El. rapid2
Ra4a 4 %Ra4a.4 Elettromandrino 2 rotazione ccw
Ra49 4 %Ra49.4 Elettromandrino 3 rotazione ccw
                                                                              E30119 %RD5C.L Errore blocco utensile dopo terzo tentativo
Ra48_4 %Ra48.4 Elettromandrino 4 rotazione ccw
                                                                              E30120 %RD60.L = 0 azzeramento = 1 aggiornamento, posto E30121
                                                                              E30121 %RD64.L Selezione posto da aggiornare/azzerare
E30019 %Ra4C.L ASSOCIAZIONE FRA ELETTROMANDRINI 5,6,7,8, E INVERTER
                                                                              E30122 %RD68.L Numero utensile da memorizzare
                              %Ra4f.b B0 (8bit) = elettromandrini n.5
                                                                              E30123 %RD6C.L Numero posto utensile da memorizzare su el.
//
                               %Ra4e.b B1 (8bit) = elettromandrini n.6
                                                                              E30124 %RD70.L Posizionamento pinza per Tool-Room
//
                               %Ra4d.b B2 (8bit) = elettromandrini n.7
                                                                              E30125 %Rd74.L Gestione errore bussola non inserita correttamente
11
                               %Ra4c.b B3 (8bit) = elettromandrini n.8
                                                                              E30126 %Rd78.L Valore timer attesa fine inserimento bussola
//
                               Ogni byte contiene più informazioni:
                                                                              E30127 %Rd7C.L Gestione tastatura
11
                               7 6 5 4 3 2 1 0
                                                                              //
//
                              I bit 0-3 rappresentano il numero dell
                                                                              //
'inverter;
//
                               il bit 4 è il verso di rotazione (0=dx 1=sx)
                                                                              // VARIABILI PER CAMBIO UTENSILE A 4 POSIZIONI RANDOM
;
                                                                              //
//
                               qli altri bit sono liberi
//
                                                                              E30037 %Rb14.L Numero posti abilitati su mag. n.0 (init Xilog3)
Ra4f 4 %Ra4f.4 Elettromandrino 5 rotazione ccw
                                                                              E30038 %Rb18.L Numero posti abilitati su mag. n.1 (init Xilog3)
Ra4e_4 %Ra4e.4 Elettromandrino 6 rotazione ccw
                                                                              E30039 %RblC.L Numero posti abilitati su mag. n.2 (init Xilog3)
Ra4d 4 %Ra4d.4 Elettromandrino 7 rotazione ccw
                                                                              E30040 %Rb20.L Numero posti abilitati su mag. n.3 (init Xilog3)
Ra4c 4 %Ra4c.4 Elettromandrino 8 rotazione ccw
                                                                              E30041 %Rb24.L Numero posti abilitati su mag. n.4 (init Xilog3)
                                                                              E30042 %Rb28.L Numero posti abilitati su mag. n.5 (init Xilog3)
E30020 %Ra50.L QUOTA ANGOLARE DEL POSTO MAGAZZINO
                                                                              E30043 %Rb2C.L Numero posti abilitati su mag. n.6 (init Xilog3)
                               CONTENENTE L'UTENSILE DA MONTARE
                                                                              E30044 %Rb30.L Numero posti abilitati su maq. n.7 (init Xiloq3)
//E30021
               %Ra54.L Situazione assi configurati (SETUP) (NON UTILIZZATA)
                                                                              E30045 %Rb34.L Numero posti abilitati su maq. n.8 (init Xilog3)
E30022 %Ra58.L
                                                                              E30046 %Rb38.L Numero di utensile da caricare su EL.1
E30023 %Ra5c.L
                                                                              E30047 %Rb3C.L Numero di utensile da caricare su EL.2
E30024 %Ra60.L
                                                                              E30048 %Rb40.L Numero di utensile da caricare su EL.3
                                                                              E30049 %Rb44.L Numero di utensile da caricare su EL.4
//
                                                                              E30050 %Rb48.L Numero utensile installato su EL.1
//**********
                                                                              E30051 %Rb4C.L Numero utensile installato su EL.2
                                                                              E30052 %Rb50.L Numero utensile installato su EL.3
// Gestione TOOLDYN
E30080 %Rc40.L Numero utensile
                                                                              E30053 %Rb54.L Numero utensile installato su EL.4
E30081 %Rc44.L
                      Valore in micro del'usura utensile
                                                                              E30054 %Rb58.L Numero utensile su posto magazzino n.1
E30082 %Rc48.L Valore massimo di usura per messaggio utensile usurato
                                                                              E30055 %Rb5C.L Numero utensile su posto magazzino n.2
E30083 %Rc4c.L Valore tempo massimo di applicazione usaura
                                                                              E30056 %Rb60.L Numero utensile su posto magazzino n.3
//********
                                                                              E30057 %Rb64.L Numero utensile su posto magazzino n.4
E30084 %Rc50.L Vector (quota peso alto)
                                                                              E30058 %Rb68.L Numero utensile su posto magazzino n.5
E30085 %Rc54.L Vector (quota peso basso)
                                                                              E30059 %Rb6C.L Numero utensile su posto magazzino n.6
                                                                              E30060 %Rb70.L Numero utensile su posto magazzino n.7
E30086 %Rc58.L Vector (velocita rotazione)
                                                                              E30061 %Rb74.L Numero utensile su posto magazzino n.8
// VARIABILI PER CAMBIO UTENSILE
                                                                              E30062 %Rb78.L Numero utensile su posto magazzino n.9
                                                                              E30063 %Rb7C.L Numero utensile su posto magazzino n.10
E30100 %Rd10.L Posizione ruota magazzino (posti) rapid1
                                                                              E30064 %Rc00.L Numero utensile su posto magazzino n.11
E30101 %Rd14.L Tipo di cambio utensile R1:
                                                                              E30065 %Rc04.L Numero utensile su posto magazzino n.12
//
                              1=cambio utensile manuale
                                                                              E30066 %Rc08.L Numero utensile su posto magazzino n.13
//
                               2=cambio utensile automatico
                                                                              E30067 %Rc0C.L Numero utensile su posto magazzino n.14
E30102 %Rd18.L Tipo di cambio utensile R2:
                                                                              E30068 %Rc10.L Numero utensile su posto magazzino n.15
```

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```
E30069 %Rc14.L Numero utensile su posto magazzino n.16
E30070 %Rc18.L Numero utensile su posto magazzino n.17
E30071 %Rc1C.L Numero utensile su posto magazzino n.18
E30072 %Rc20.L Numero utensile su posto magazzino n.19
E30073 %Rc24.L Numero utensile su posto magazzino n.20
//
//
E40000 %Wa00.L Numero utensile da caricare (T del p/p) Rapid1
E40002 %Wa08.L Numero utensile da caricare (T del p/p) Rapid2
E40005 %Wal4.L Ciclo cambio utensile in corso Rapidl
E40006 %Wal8.L Ciclo cambio utensile in corso Rapid2
//
E40010 %Wa28.L Numero utensile installato rapid1
E40011 %Wa2C.L Numero utensile installato rapid2
E40013 %WA34.L Verifica ricerca utensile =1 ok =2 errore Tool-Room
E40014 %WA38.L Tool Room tarato
E40015 %Wa3C.L Magazzino rapid1 tarato
E40016 %Wa40.L Magazzino rapid2 tarato
E40017 %Wa44.L Abilitazione gestione magazzino p/p per M6
//
E40020 %Wa50.L Modo simulato abilitato per gestione tastatore
E40021 %Wa54.L Indice quota posizionamento Vector x Brambilla
//
//E80000
                               Utensile installato sul mandrino Rapidl
//E80008
                               Utensile installato sul mandrino Rapid2
```

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Company:		NOM	тоопр	
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00 Label: Step: Gen_em_cn M115_1 Emcu45_su EV sblocco utensile (X5) -] / [-—(R)— %Q4500.3 %V1e.0 %V673.0 M114_1 %V999.0 Emcu45_su EV sblocco utensile (X5) -][--(S)-%V672.0 %Q4500.3 sbl Soffio_x5 EV soffiatore elettromandrino (X — () – %I4500.1 %Q4500.4 01 Label: Step: M115_1 E10003 TON_07(1500) E20005 Magazzino R2 posteriore -1 [-_ l [– -(S)-Q %R11.3 %W11.5 %V673.0 V_dente Mem. verifica dente/dente generi -(S)-%V90.4 M114 1 E20005 Magazzino R2 posteriore —(R)-%V672.0 %W11.5 E_raz V_dente Mem. verifica dente/dente generi —] [-—(R)-%R3.0 %V90.4 [T] TON_07(0x5dc) TON_07(1500) 02 Label: Step: Ab_asst1 Evolution Gruppox5_on Discesa gruppo X5 —(S)-%Q4501.1 %V88.5 %M803.1 Itir

Author:		NITIM	TOOLS	
Company:		NOM	тоопр	
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03 Label: Step: Icil_basso Icil_alto (1) Evolution Gruppox5_on Discesa gruppo X5 —][— — 1 / F — —(R)— %Q4501.1 %I4500.4 %I4500.6 %M803.1 Cuffia_dis Gruppox5_off Salita gruppo X5 —][— —(S)-%I4500.7 %Q4501.0 M117 1 App_iniz_lub.5 Mem. appoggio inizio lubrificazi __] [_ —(S)-%V675.0 %V44.5 M116_1 App_iniz_lub.5 Mem. appoggio inizio lubrificazi —] [— —(R)-%V674.0 %V44.5 E_raz %R3.0 Ra47 0 —] [— %Ra47.0 (1) %V88.5, %V84.3, %Vf.6, %V44.5 : Ab_asst1, Test_el1, Pez_sblo, App_iniz_lub.5 Verifica se AUT o MDI **04** Label: Step: (1) Pres_el1, El_1_on goto(END) —__]/[— —— (T) — %I4000.0, %Q4100.2 X test fora goto(TESTIO) __1 [_ — (T) — %V503.2 X_modo_sim, E_oper goto(AUTO) —] / [— — (T) — %V503.1, %R3.7 goto(RESET) —— (F)— (1) %M800.4, %V100.0 : El_11kw, Conf_el1_cu

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05 Label: TESTIO Step: Inverter on

 $V50_w > 5$ %V999.0 (1) $X_{conv} == 1$ Inv1_on_em1 Res_sel1 ___]>[__ _]>[_ —] / [– —(S)-%V50.W > 0x5 %V401.B == 0x1 %04101.3 %V8.0 Test el1 Inv1 on em1 Inv1 on em1 —] / [— _1 [_ —(R)-%V84.3 %V8.0 %V8.0 X_ccw, Test_el1 $X_{conv} == 1$ Inv1_ccw_em1 —] [— ___]>[___ — () –

Mem. inverter 1 richiesto da EM1

Mem. inverter 1 richiesto da EM1

Mem. inverter 1 CCW da EM1

%V8.1

goto(RESET)

(1) %V84.3, %V22.6, %V402.1 : Test_ell, App_freql_0, X_convon

06 Label: AUTO Step:

%V402.2, %V84.3

Inverter on

(1)	%V999.0	(2)	${\tt App_freq1_0}$	Res_sel1	Inv1_on_em1
]/[] []>[] []/[%Q4101.3	(S) %V8.0
			6V22.0	%Q4101.3	6V8.U
Ra4b_4	Inv1_on_em1				Inv1_ccw_em1
] [] [(S)
%Ra4b.4	%V8.0				%V8.1
(3)	Itir			Ra37_0	Ab_asst1
]/[]/[][(S)
	%I4500.2			%Ra37.0	%V88.5

Mem. inverter 1 richiesto da EM1

Mem. inverter 1 CCW da EM1

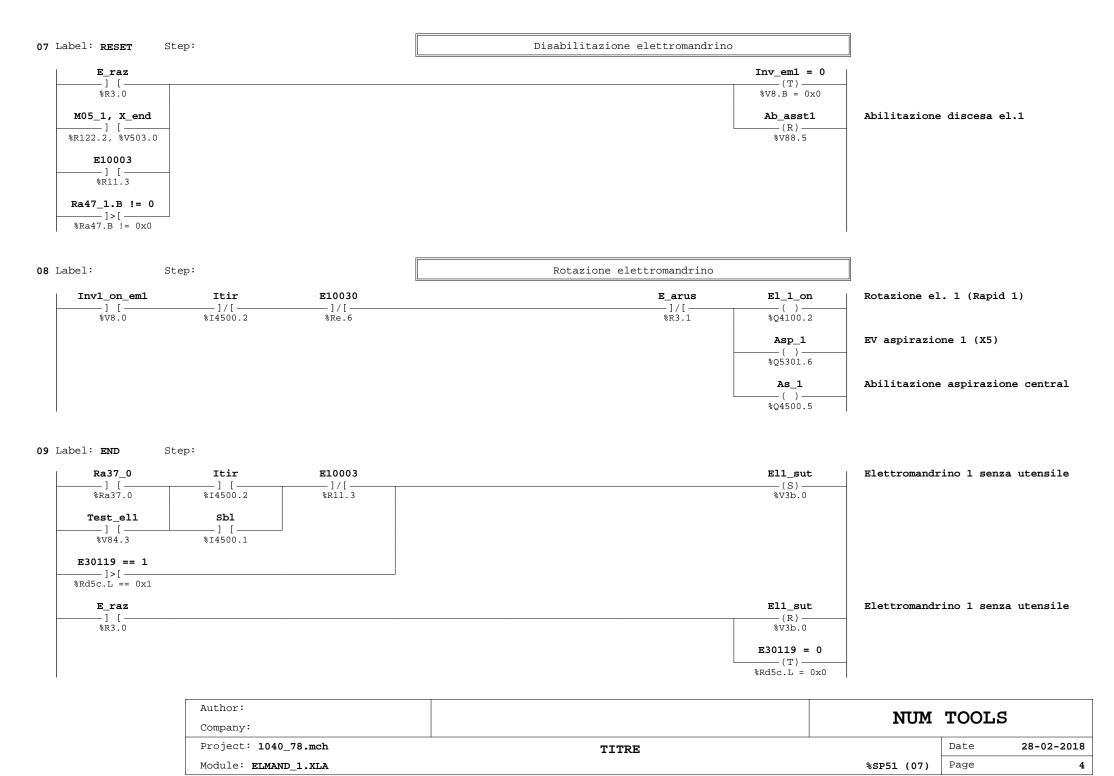
Abilitazione discesa el.1

- (1) %V503.1, %R3.7, %R11.3, %V33.0 : X_modo_sim, E_oper, E10003, Ciclo_cul
- (2) Ra4b.B & 0xf == 0x1 : $Ra4b_4.B \& 15 == 1$

%V401.B == 0x1

(3) %V503.1, %R3.7, %I4101.3, %R11.6, %V33.0 : X_modo_sim, E_oper, Setting, E10006, Ciclo_cul

Author:		NTTM	TOOLS	
Company:		NOM	тоопр	
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10 Label: Step:

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00 Label:

Gen_em_cn M115_1 Emcu45_su EV sblocco utensile (X5) -] / [-—(R)— %Q4500.3 %V1e.0 %V673.0 M114_1 Speed_0 Emcu45_su EV sblocco utensile (X5) -][--(S)-%V672.0 %I4500.3 %Q4500.3 sbl Soffio_x5 EV soffiatore elettromandrino (X

— () –

%Q4500.4

01 Label: Step:

%I4500.1

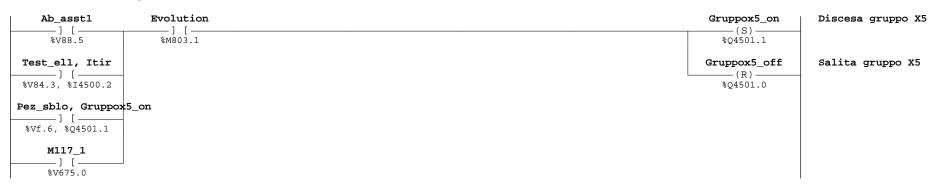


[T] $TON_07(0x5dc)$: $TON_07(1500)$

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Step:

02 Label: Step:



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Company:		NOM	TOOL	D
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03 Label: Step: Icil_basso Icil_alto (1) Evolution Gruppox5_on Discesa gruppo X5 —][— — 1 / F — —(R)— %Q4501.1 %I4500.4 %I4500.6 %M803.1 Cuffia_dis Gruppox5_off Salita gruppo X5 —][— —(S)-%I4500.7 %Q4501.0 M117 1 App_iniz_lub.5 Mem. appoggio inizio lubrificazi __] [_ —(S)-%V675.0 %V44.5 M116_1 App_iniz_lub.5 Mem. appoggio inizio lubrificazi —] [— —(R)-%V674.0 %V44.5 E_raz %R3.0 Ra47 0 —] [— %Ra47.0 (1) %V88.5, %V84.3, %Vf.6, %V44.5 : Ab_asst1, Test_el1, Pez_sblo, App_iniz_lub.5 Verifica se AUT o MDI **04** Label: Step: (1) Pres_el1, El_1_on goto(END) —__]/[— —— (T) — %I4000.0, %Q4100.2 X test fora goto(TESTIO) __1 [_ — (T) — %V503.2 X_modo_sim, E_oper goto(AUTO) —] / [— — (T) — %V503.1, %R3.7 goto(RESET) —— (F)— (1) %M800.4, %V100.0 : El_11kw, Conf_el1_cu

Author:		NTTM	TOOLS	•
Company:		NOM	тоопа	,
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05 Label: TESTIO Step: Inverter on

 $V50_w > 5$ Speed_0 (1) $X_{conv} == 1$ Inv1_on_em1 Res_sel1 __]>[_ _]>[_ _][_ —] / [– —(S)-%V50.W > 0x5 %V401.B == 0x1 %I4500.3 %04101.3 %V8.0 Test el1 Inv1 on em1 Inv1 on em1 —] / [— _1 [_ —(R)-%V84.3 %V8.0 %V8.0 X_ccw, Test_el1 $X_{conv} == 1$ Inv1_ccw_em1 —] [— ___]>[___ — () – %V402.2, %V84.3 %V401.B == 0x1 %V8.1 goto(RESET)

Mem. inverter 1 richiesto da EM1

Mem. inverter 1 richiesto da EM1

Mem. inverter 1 CCW da EM1

(1) %V84.3, %V22.6, %V402.1 : Test_ell, App_freq1_0, X_convon

06 Label: AUTO Step:

Inverter on

— (T) —

]/[Speed_0][[2)	App_freq1_0 	Res_sel1]/[%Q4101.3	Inv1_on_em1 (S)
Ra4b_4	Inv1_on_em1 [] [Inv1_ccw_em1 (S)
%Ra4b.4	%V8.0				%V8.1
(3)	Itir			Ra37_0	Ab_asst1
]/[] [] [(S)
	%I4500.2			%Ra37.0	%V88.5

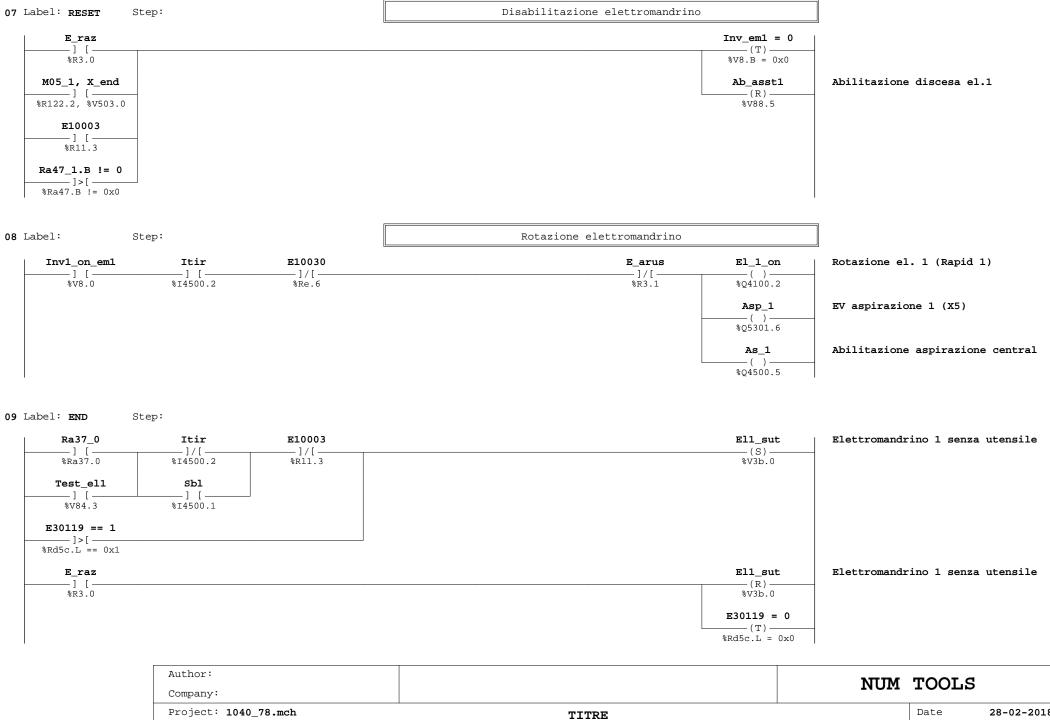
Mem. inverter 1 richiesto da EM1

Mem. inverter 1 CCW da EM1

Abilitazione discesa el.1

- (1) %V503.1, %R3.7, %R11.3, %V33.0 : X_modo_sim, E_oper, E10003, Ciclo_cul
- (2) %Ra4b.B & 0xf == 0x1 : Ra4b_4.B & 15 == 1
- (3) %V503.1, %R3.7, %I4101.3, %R11.6, %V33.0 : X_modo_sim, E_oper, Setting, E10006, Ciclo_cul

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10 Label: Step:

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```
00 Label:
                 Step: Emer move
                                  M46.W = 0
    Emer_move != 0
                                                       TON_77(3000)
                                                                                                         Emer_move = 0
        ___]>[___
                                                                                                            — (T)—
     %M46.W != 0x0
                                                                                                          %M46.W = 0x0
    Start motori > 0
                                                                                                         Emer_move = 1
       ___]>[___
                                                                                                            — (T)—
     %M50.W > 0x0
                                                                                                          M46.W = 0x1
                                                                                                           goto(END)
                                                                                                           — (Т)—
   [T] TON_77(0xbb8) : TON_77(3000)
01 Label:
                Step: Emer_move %M46.W = 1
      Raz_pv == 5
                                                                        Index 14 = 0
                                                                                         Index 15 = 0
                                                                                                         Emer_move = 2
                                                                          — т —
       ____]>[____
                                                                                         — т —
                                                                                                            — (T)—
      %M58.W == 0x5
                                                                        M111a.W = 0x0
                                                                                         M111c.W = 0x0
                                                                                                          M46.W = 0x2
                                                                                                           goto(END)
                                                                                                            — (T)—
02 Label:
                Step: Emer move
                                   %M46.W = 2
                                                                   Allarme ID inesistente su motore traversa 1
     Tab_id == 0
                                                                                                           Alarm_pgm
                                                                                                                          tentativo di posizionare una ven
      ____]>[___
                                                                                                            — ( ) –
     %V1350.B == 0x0
                                                                                                            %V4031.5
                                                                                                         Emer_move = 5
                                                                                                           —— (T)—
                                                                                                          M46.W = 0x5
03 Label: ID
             Step: Emer_move
                                  %M46.W = 2
                                                                           index_15 = n° piani area AB
   Tab_id[Index_14] == Tab_id
                                                                                                         Index_15 += 1
        ___ ] > [ ___
                                                                                                          —— (T)——
   %V1350.B[%M111a.W] == %V1350.B
                                                                                                         M111c.W += 0x1
                                                                                                           goto(VAI)
                                                                                                            —— (F)—
```

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Module: EMER_PV.XLA		%SP213 (00)	Page	1

Author:

```
Index_14 += 7
                                                                                                    — (T)—
                                                                                                  %M111a.W += 0x7
                                                                                                    goto(ID)
                                                                                                    — (T) —
05 Label: VAI
               Step: Emer_move %M46.W = 2
     TON_77(3000)
                                    Index_2 = 0
                                                                                                  Emer_move = 3
                                     — т —
                                                                                                    — (T)—
                                    M1102.W = 0x0
                                                                                                   M46.W = 0x3
                                                                                                   goto(END)
                                                                                                    —— (T)—
  [T] TON_77(0xbb8) : TON_77(3000)
06 Label:
                 Step: Emer_move %M46.W = 3
     Movimento pv
                                                                                                       (1)
       — 1 [ —
                                                                                                      -(T)-
       %V4032.0
                                                                                                  Emer_move = 4
                                                                                                    — (T)—
                                                                                                   %M46.W = 0x4
                                                                                                   goto(END)
                                                                                                    — (T)—
   (1) %V4100.B = %V4000.B[%M1102.W] : V4100 = V4000[Index_2]
07 Label:
                 Step: Emer move %M46.W = 4
     Index_1 = 10
                    Index_3 = 0
                                    Index_4 = 0
                                                   Index_5 = 0
                                                                 Index_6 = 0
                                                                                  Index_11 = 0
                                                                                                  Index_8 = 0
      — т —
                      — т —
                                     — т —
                                                     — т —
                                                                    — т —
                                                                                   — т —
                                                                                                    — (T) —
                                    M1106.W = 0x0
                                                   M1108.W = 0x0
                                                                                  M1114.W = 0x0
                                                                                                  %M110e.W = 0x0
     M1100.W = 0xa
                    M1104.W = 0x0
                                                                   M110a.W = 0x0
     Index_14 = 0
     — т —
     M111a.W = 0x0
```

Author:		NUM	TOO	T C
Company:		NOM	100.	по
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: EMER_PV.XLA		%SP213 (04)	Page	2

Step: Emer move %M46.W = 2

04 Label:

08 Label: FASE4 Step: Emer move %M46.W = 4 Movimento_pv (1) (2) Icla_move_1[Index_11] (3) (4) _]>[__ %V4010.0[%M1114.W] %V4032.0 Recup_10_[Index_4] (5) ____]/[___ —(T)— %V4500.4[%M1106.W] Index 1 += 10 — (T)— %M1100.W += 0xa $Index_5 += 1$ —— (T)— %M1108.W += 0x1 $Index_4 += 7$ —— (T)— %M1106.W += 0x7 Index 8 += 28 ——— (T)—— %M110e.W += 0x1c (1) %V4500.3[%M1106.W] : Sincro_10_[Index_4] (2) %V4100.B == %M1100.W : V4100 == Index_1 (3) %V4500.4[%M1106.W] : Recup_10_[Index_4] (4) %M2010.L[%M110e.W] = %V7018.L[%M104.W] - %V1290.B[%M1106.W] : Piano_10[Index_8] = Pos_reale_1[Index_3] - Tab_asola[Index_4] (5) %M2010.L[%M110e.W] = %V7018.L[%M1104.W] + %V1290.B[%M1106.W] : Piano_10[Index_8] = Pos_reale_1[Index_3] + Tab_asola[Index_4] 09 Label: Step: Emer_move %M46.W Index_5 == 12 Movimento_pv goto(FASE4A) __1 [_ ____]>[___ — (T)— %V4032.0 %M1108.W == 0xc

(1) M1104.W += 0x1 * 0x10 : Index_3 += 1 * 16

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10 Label: FASE4A Step: Emer_move %M46.W = 4

- 1	$Index_1 = 11$	$Index_3 = 0$	$Index_4 = 0$	$Index_5 = 0$	$Index_6 = 0$	$Index_11 = 0$	$Index_8 = 0$
H	T	T %M1104.W = 0x0	T %M1106.W = 0x0	T %M1108.W = 0x0	T %M110a.W = 0x0	T	(T)
							Indox 12 - 0
							Index_12 = 0

11 Label: FASE4B Step: Emer_move %M46.W = 4

Movimento_pv] [] [(2)]>[<pre>Icla_move_3[Index_11]</pre>] [(4) ————————————————————————————————————
				Recup_11_[Index_4] -]/[%V4501.4[%M1106.W]	(5) ————————————————————————————————————
					Index_1 += 1
				Index_12 += 1 T = 0x1	Index_5 += 1
					Index_4 += 1
					Index_8 += 4

- (1) %V4501.3[%M1106.W] : Sincro_11_[Index_4]
- (2) $V4100.B == M1100.W : V4100 == Index_1$
- (3) %V4501.4[%M1106.W] : Recup_11_[Index_4]
- (4) %M2014.L[%M110e.W] = %V7038.L[%M1104.W] %V1291.B[%M1106.W] : Ventosa_11[Index_8] = Pos_reale_3[Index_3] %V1291.B[Index_4]
- (5) %M2014.L[%M110e.W] = %V7038.L[%M1104.W] + %V1291.B[%M1106.W] : Ventosa_11[Index_8] = Pos_reale_3[Index_3] + %V1291.B[Index_4]

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12 Label: Step: Emer_move %M46.W = 4

Movimento_pv	$Index_5 > 126$					goto(FASE4C)
]>[——(T)—
%V4032.0	%M1108.W > 0x7e					
	Index 12 < 6					goto(FASE4B)
	1>[(T)
	%M1116.W < 0x6					, ,
	Index_12 == 6	Index_3 += 16	Index_12 = 0	Index_4 += 1	Index_8 += 4	
	%M1116.W == 0x6	%M1104.W += 0x10	%M1116.W = 0x0	%M1106.W += 0x1	%M110e.W += 0x4	
				Index_1 += 4	Index_11 += 1	
				%M1100.W += 0x4	%M1114.W += 0x1	

13 Label: FASE4C Step: Emer_move %M46.W = 4

Movimento_pv	V4100 == 127	Index_6 = 0	Emer_move = 5
%V4032.0	%V4100.B == 0x7f	%M110a.W = 0x0	%M46.W = 0x5
	V4100 != 127		Emer_move = 3
Movimento pv		T	Emer move = 5
1/[Index_6 = 0	
]/[%V4032.0		T	*M46.W = 0x5

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```
14 Label: FASE5
                                 %M46.W = 5
                                                                           reset bit park + mpark
                Step: Emer move
     Index_6 < 84
                                                                                                            (1)
       ___]>[___
     %M110a.W < 0x54
                                                                                                      Index 6 += 1
                                                                                                       —— (T)——
                                                                                                      %M110a.W += 0x1
                                                                                                       goto(FASE5)
                                                                                                      ——— (T)——
                                                                                                      Index_11 = 0
                                                                                                       —— (T)—
                                                                                                      M1114.W = 0x0
   (1) V4500.B[M110a.W] = 0x0 : Piano10[Index_6] = 0
15 Label: RESMOVE Step: Emer_move %M46.W = 5
     Index_11 < 14
                                                                                                            (1)
       ___ ] > [ ___
                                                                                                           (R)-
     %M1114.W < 0xe
                                                                                                      Index_11 += 1
                                                                                                      ——— (T)——
                                                                                                      %M1114.W += 0x1
                                                                                                      goto(RESMOVE)
                                                                                                      ——— (T)——
   (1) %V4010.0[%M1114.W] : Icla_move_1[Index_11]
16 Label:
                Step: Emer_move %M46.W = 5
                   Index_2 = 0
                                                                    Index_5 = 0
                                                                                     Index_6 = 0
     Index 1 = 0
                                     Index_3 = 0
                                                     Index 4 = 0
                                                                                                      Index 7 = 0
       — т —
                      — т —
                                      ____ т ___
                                                      — т —
                                                                      ____ т ___
                                                                                       — т —
                                                                                                        — (T)—
     M1100.W = 0x0
                     M1102.W = 0x0
                                     M1104.W = 0x0
                                                      M1106.W = 0x0
                                                                      M1108.W = 0x0
                                                                                      M110a.W = 0x0
                                                                                                      M110c.W = 0x0
     Index_8 = 0
                     Index 9 = 0
                                     Index_10 = 0
                                                     Index_11 = 0
                                                                      Index_13 = 0
                                                                                                      Movimento_pv
                                                                                                                      piani o ventose in movimento
                       — т —
                                       — т —
                                                        — т —
                                                                        — т —
                                                                                                         — (R) –
     M110e.W = 0x0
                     M1110.W = 0x0
                                     M1112.W = 0x0
                                                      M1114.W = 0x0
                                                                      M1118.W = 0x0
                                                                                                        %V4032.0
     Index_14 = 0
                     Index_15 = 0
                                                                                                      Emer move = 0
     — т —
                     — т —
                                                                                                        — (T)—
     M111a.W = 0x0
                     M111c.W = 0x0
                                                                                                       %M46.W = 0x0
                                                                                                        goto(END)
                                                                                                        —— (T) —
                       Author:
                                                                                                                          NUM TOOLS
```

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Module: EMER_PV.XLA

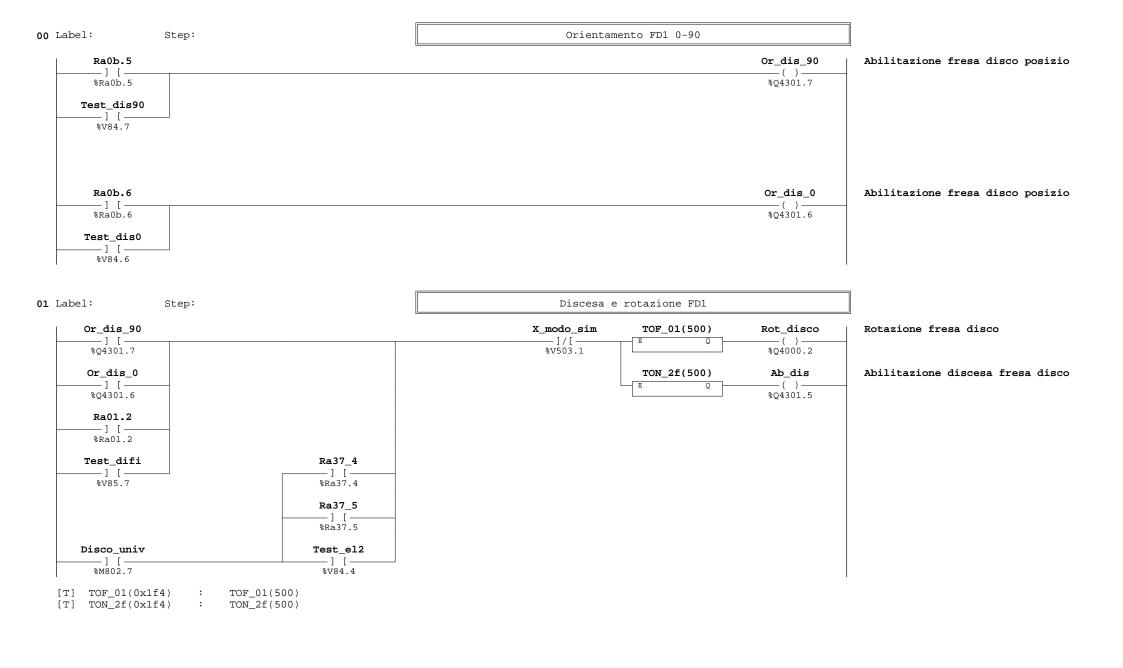
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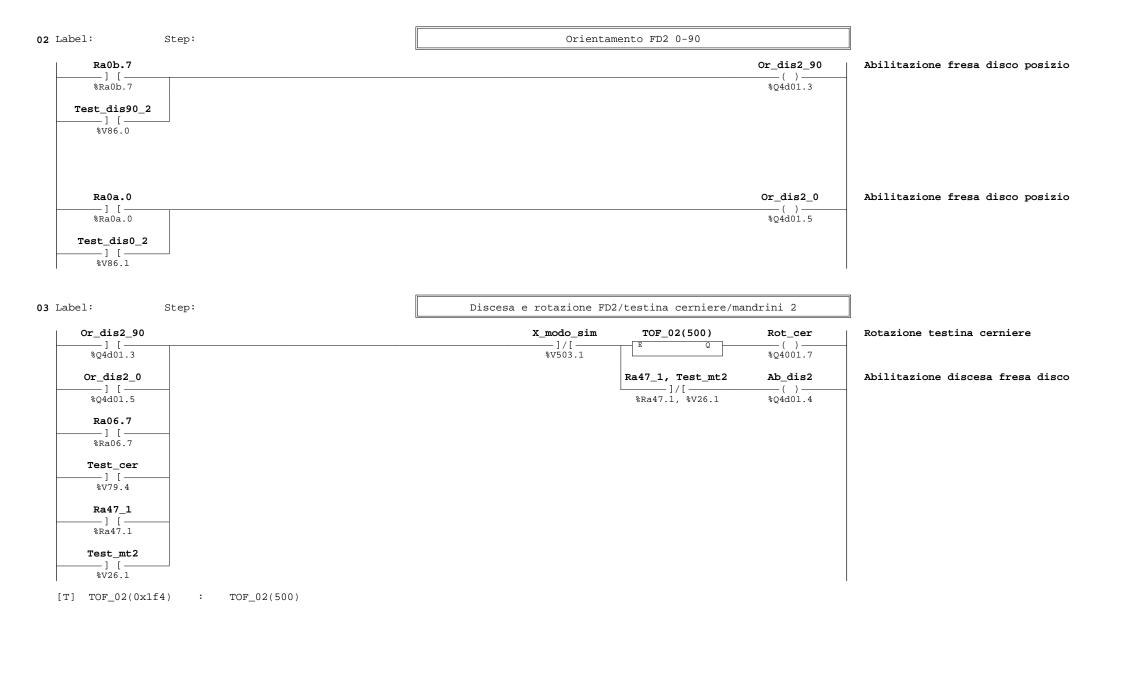
17 Label: END Step:

18 Label: Step:

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04 Label: Step:

HOLD da FD

Or_dis_90	Disco_90	Rapid1
%Q4301.7	%I4301.7	%R103.0
Or_dis_0] [%Q4301.6	Disco_0 	
Or_dis2_90] [Disco2_90 	
Or_dis2_0] [%Q4d01.5	Disco2_0]/[%14d01.6	

Inibizione avanzamento da fresa

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```
//-----
                                                                                           E20030 %WE.6 Frequenza 0 inverter n.2 Rapid2
// FILE NAME : ES_CN.xsy
                                                                                           E20029 %WE.5
                                                                                           E20028 %WE.4
// DESCRIZIONE : Memorie CN
E20027 %WE.3 Ciclo cambio utensile Rapid 1 (M31)
                                                                                           E20026 %WE.2
                                                                                                             Ciclo cambio utensile Rapid 2 (M32)
                                                                                           E20025 %WE.1
//--- Stato macchina
//
                                                                                           E20024 %WE.0
                                                                                           E20023 %WF.7 Elettromandrino 2 manuale
Carclay %RO.W Carattere battuto sulla tastiera
                                                                                           E20022 %WF.6 Elettromandrino 1 manuale
//
E m01
                  %R2.7
                                     Stato M01 validato
                                                                                           E20021 %WF.5 Elettromandrino 2 con attacco HSK
E_slash %R2.6
                           Stato Blocco barrato validato
                                                                                           E20020 %WF.4 Elettromandrino 1 con attacco HSK
                  %R2.5
                                                                                           E20019 %WF.3 Abilitazione ciclo di dente/dente Random
E interv
                                    Stato richiamo assi
                                                                                           E20018 %WF.2 Abilitazione ciclo di dente/dente R2
S recul %R2.4
                           Stato ritorno sulla traettoria
                  %R2.1
                           Funzione 2/3 o 3/5 auto attiva
                                                                                           E20017 %WF.1 Taratura magazzino da testio R2
E_nmauto
                                                                                           E20016 %WF.0 Pulsante rotazione magazzino R2
E oper %R3.7
                           Immagine della spia operatore
E defcn %R3.6
                           CN in errore macchina
                                                                                           E20015 %W10.7 Tirante R2
E_dgurg %R3.4
                           Uscita generale d'urgenza
                                                                                           E20014 %W10.6 Presenza magazzino R2
E rax
                  %R3.3
                           Richiamo generale degli assi
                                                                                           E20013 %W10.5 Presenza magazzino R1
E_cycle %R3.2
                           Ciclo in corso
                                                                                           E20012 %W10.4 Automatico in corso
E_arus %R3.1
                           Lavorazione sospesa (Hold assi)
                                                                                           E20011 %W10.3 Eseguire taratura piani e ventose
                           Reset CN in corso
                                                                                           E20010 %W10.2 Verifica corretto aggancio ventosa
E raz
                  %R3.0
                                                                                           E20009 %W10.1 Magazzino Random chiuso
//
//---- Stato CN
                                                                                           E20008 %W10.0 Presenza asse B (vector 2)
//
                                                                                           E20007 %W11.7 Presenza asse A (vector 1)
                           Modo trasparente in corso
Modo passante pronto
                                                                                           E20006 %W11.6
E transp
                  %R5.7
                  %R5.5
                                                                                           E20005 %W11.5 Magazzino R2 posteriore
E_ppp
E_prog %R5.1
                           Programma in corso
                                                                                           E20004 %W11.4 Abilitazione ciclo di dente/dente R1
E_cnpret
                  %R5.0
                           CN pronto
                                                                                           E20003 %W11.3 Taratura magazzino da testio R1
//
                                                                                           E20002 %W11.2 Campo in esecuzione per Random
//--- Memorie di movimento assi
                                                                                           E20001 %W11.1 Pulsante rotazione magazzino R1
                                                                                           E20000 %W11.0 Tirante R1
                  %R9.b
                                    Asse in movimento
Axmvt
//
                                                                                           //--- Parametre esterni E10000 a E10031
Axmvt7 %R9.7
                           Asse nø 7 in movimento
Axmvt6 %R9.6
                           Asse nø 6 in movimento

      Axmvt6
      %R9.6
      Asse nø 6 in movimento

      Axmvt5
      %R9.5
      Asse nø 5 in movimento

      Axmvt4
      %R9.4
      Asse nø 4 in movimento

      Axmvt3
      %R9.3
      Asse nø 3 in movimento

      Axmvt2
      %R9.2
      Asse nø 2 in movimento

      Axmvt1
      %R9.1
      Asse nø 1 in movimento

      Axmvt0
      %R9.0
      Asse nø 0 in movimento

                                                                                           E10031 %RE.7
                                                                                                                      Lettura E80000 in %11000 allo startup
                                                                                           E10030 %RE.6
                                                                                                                      Ciclo taratura piani e ventose in corso
                                                                                           E10029 %RE.5
                                                                                                                      Start posizionamento asse seriale
                                                                                           E10028 %RE.4
                                                                                                                      Decremento pezzo a fine PGM
                                                                                           E10027 %RE.3
                                                                                           E10026 %RE.2
                                                                                           E10025 %RE.1
                                                                                                                      Ab. ciclo C.U. su el.2
                                                                                           E10024 %RE.0
                                                                                                                      Ab. ciclo C.U. su el.1
//--- Assi tarati (POM fatta)
                                                                                           E10023 %RF.7
                                                                                           E10022 %RF.6
                                                                                          E10021 %RF.5
E10020 %RF.4
E10019 %RF.3
E10018 %RF.2
Axini7
                  %RD.7
                                    Asse nø 7 tarato (POM fatta)
                                                                                                                     Ab. su el.2 da testI/O Xilog3

      %RD.7
      Asse nø / tarato (POM fatta)

      %RD.6
      Asse nø 6 tarato (POM fatta)

      %RD.5
      Asse nø 5 tarato (POM fatta)

      %RD.4
      Asse nø 4 tarato (POM fatta)

      %RD.3
      Asse nø 3 tarato (POM fatta)

      %RD.2
      Asse nø 2 tarato (POM fatta)

      %RD.1
      Asse nø 1 tarato (POM fatta)

      %RD.0
      Asse nø 0 tarato (POM fatta)

                                                                                                                     Ab. su el.1 da testI/O Xilog3
Axini6
                                                                                                                      Errore taratura asse B
Axini5
Axini4
                                                                                                                     Ciclo cambio utensile in corso Random
Axini3
                                                                                           E10017 %RF.1
                                                                                                                      Errore taratura asse A
Axini2
                                                                                           E10016 %RF.0
                                                                                                                     Errore taratura asse Z
Axini1
                                                                                           E10015 %R10.7 Errore taratura asse Y
                                                                                           E10014 %R10.6 Errore taratura asse X
Axini0
                                                                                           E10013 %R10.5 Programma terminato area D/H
//---- Parametre esterni E20000 a E20031
                                                                                           E10012 %R10.4 Programma terminato area C/G
                                                                                           E10011 %R10.3 Programma terminato area B/F
                                                                                           E10010 %R10.2 Programma terminato area A/E
E20031 %WE.7 Frequenza 0 inverter n.1 Rapid1
```

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```
E10009 %R10.1 Ciclo taratura assi
                                                                            //
E10008 %R10.0 Ciclo taratura magazzino in corso
                                                                            Kb init
                                                                                           %W2.0
                                                                                                           Init tastiera
E10007 %R11.7 Verifica vel. Asse X per attivazione logica tappeti
                                                                                                          Commando 2/3 o 3/5 auto
                                                                            C nmauto
                                                                                           %W2.1
E10006 %R11.6 Ciclo cambio utensile in corso R2
                                                                            //
                                                                            C m01
E10005 %R11.5 Disabilita check vuoto per scarico pezzo su nesting
                                                                                           %W3.7
                                                                                                          Validazione dell'arresto opzionale (M01)
E10004 %R11.4 Emergenza per elettr. senza utensile
                                                                            C slash %W3.6
                                                                                                   Validazione del salto di blocco
E10003 %R11.3 Ciclo cambio utensile in corso R1
                                                                            C razer %W3.5
                                                                                                   Ripresa su errore macchina
E10002 %R11.2 Abilitazione di scarico utensile da testio
                                                                            C_dgurg %W3.4
                                                                                                   Richiesta uscita d'urgenza
                                                                                           %W3.3
                                                                                                           Selezione del richiamo assi
E10001 %R11.1 Funzionamento "transfert" (0=no 1=si)
                                                                            C rax
                                                                                                   Richiesta di start ciclo
E10000 %R11.0 Funzionamneto "continuo" (0=no 1=si)
                                                                            C cycle %W3.2
                                                                            C arus %W3.1
                                                                                                   Richiesta sospensione lavoro (Hold aasi)
//---- Stato dei mandrini
                                                                            C raz
                                                                                           %W3.0
                                                                                                          Richiesta reset CN
//
                                                                            //
                                                                            //--- Commandi mantenuti
B4 arr
               %R12.7 Mandrino 4 fermo
              %R12.6 Mandrino 3 fermo
B3 arr
              %R12.5 Mandrino 2 fermo
                                                                            Vreduit %W4.7
                                                                                                   Velocità ridotte
B2 arr
B1 arr
              %R12.4 Mandrino 1 fermo
                                                                            Tnibutil
                                                                                                   %W4.6 1 => Chiusura delle Utility
B4 rot
              %R12.3 Mandrino 4 in rotazione
                                                                            C unit
                                                                                           %W4.5
                                                                                                          Unità di misura (metrico o inch)
               %R12.2 Mandrino 3 in rotazione
B3 rot
                                                                            Prespuis
                                                                                           %W4.4
                                                                                                           Potenza presente
B2 rot
               %R12.1 Mandrino 2 in rotazione
                                                                            Narfib
                                                                                           %W4.3
                                                                                                          Non arresto a fine blocco
              %R12.0 Mandrino 1 in rotazione
                                                                                                   Selezione velocità manuale 2
B1 rot
                                                                            Vitman2 %W4.2
Posbr4 %R13.3 Mandrino 4 in posizione
                                                                            Vitman1 %W4.1
                                                                                                   Selezione velocità manuale 1
Posbr3 %R13.2 Mandrino 3 in posizione
                                                                            Autav
                                                                                           %W4.0
                                                                                                          Autorizzazione degli avanzamenti
Posbr2 %R13.1 Mandrino 2 in posizione
                                                                            //
Posbr1 %R13.0 Mandrino 1 in posizione
                                                                            Sc save %W5.7
                                                                                                   1 => Screen save
                                                                            Sk displ
                                                                                           %W5.6
                                                                                                          0 => Soft key display
//--- Variabili diverse
                                                                            Inibclav
                                                                                           %W5.5
                                                                                                          Inibizione della tastiera
                                                                                           %W5.4
                                                                            Impuls
                                                                                                          Inibizione ingressi pannello impulsivi
Sc_used %R14.0 Validazione video per PCNC
                                                                            Cordyn %W5.3
                                                                                                   Autorizzazione ai correttori dinamici da plc
               %R14.1 Stato batteria E_bat=0 batterie ok E_bat=1 batterie
                                                                            Jogpup %W5.2
                                                                                                   Selezione del tipo di Jog da plc
E bat
                                                                            Modpup %W5.1
                                                                                                   Selezione dei modi CN da plc
da sostituire
E incjog
               %R15.B Tipo d'incremento del JOG in manuale
                                                                            Pupabs %W5.0
                                                                                                   Pannello CN assente
Modcour %R16.B Modo CN in corso
               %R17.B Numero della pagina visualizzata
                                                                            //--- Commandi Jog positivi
Pavisu
Errmach %R18.B Numero d'errore macchina
         %R19.B Numero pannello o CN attivo
Id kb cn
                                                                            Joapos8 %W8.0
                                                                                                   JOG positivo asse nø 8
//
                                                                            Joqpos7 %W9.7
                                                                                                   JOG positivo asse nø 7
            %R1A.W Numero del programma corrente
                                                                            Jogpos6 %W9.6
                                                                                                   JOG positivo asse nø 6
Progcour
                                                                            Jogpos5 %W9.5
                                                                                                   JOG positivo asse nø 5
Vit.br1
               %R1C.W Velocità mandrino 1
                                                                            Jogpos4 %W9.4
                                                                                                   JOG positivo asse nø 4
Vitbr2
               %R1E.W Velocità mandrino 2
                                                                            Jogpos3 %W9.3
                                                                                                   JOG positivo asse nø 3
Vitbr3
               %R20.W Velocità mandrino 3
                                                                            Jogpos2 %W9.2
                                                                                                   JOG positivo asse nø 2
Vitbr4
               %R22.W Velocità mandrino 4
                                                                            Joqposl %W9.1
                                                                                                   JOG positivo asse nø 1
                                                                            Joapos0 %W9.0
                                                                                                   JOG positivo asse nø 0
//---- Assi bloccabili
                                                                            //--- Commandi Jog negativi
AXBLK5 %R27.5 Asse Nø 5 bloccabile
                                                                            //
AXBLK4 %R27.4 Asse Nø 4 bloccabile
                                                                            Joqneq8 %WC.0
                                                                                                   JOG negativo asse nø 8
AXBLK3 %R27.3 Asse Nø 3 bloccabile
                                                                            Jogneg7 %WD.7 JOG negativo asse nø 7
AXBLK2 %R27.2 Asse Nø 2 bloccabile
                                                                            Jogneg6 %WD.6 JOG negativo asse nø 6
AXBLK1 %R27.1 Asse Nø 1 bloccabile
                                                                            Jogneg5 %WD.5 JOG negativo asse nø 5
AXBLKO %R27.0 Asse Nø 0 bloccabile
                                                                            Jogneg4 %WD.4 JOG negativo asse nø 4
                                                                            Jogneg3 %WD.3 JOG negativo asse nø 3
//
//
                                                                            Jogneg2 %WD.2 JOG negativo asse nø 2
//
                                                                            Jogneg1 %WD.1 JOG negativo asse nø 1
//--- Commandi impulsivi
                                                                            Jogneg0 %WD.0 JOG negativo asse nø 0
```

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```
//--- Richieste diverse
           %W13.B Commando del tipo di JOG
C incjoq
Modedem %W14.B Modo richiesto
Msg1 %W15.B Nø messagggio di diagnostica 1
             %W16.B Nø messagggio di diagnostica 2
Selecgr %W17.B Scelta dei gruppi d'assi
Progdem %W18.W Numero del programma richiesto
Afmanl %W1A.B Collegamento volantino nøl
Afman2 %W1B.B Collegamento volantino nø2
Afman3 %W1C.B Collegamento volantino nø3
Afman4 %W1D.B Collegamento volantino nø4
Potbrl %W1E.B Potenziometro mandrino nøl
Pot.br2
             %W1F.B Potenziometro mandrino nø2
            %W20.B Potenziometro mandrino nø3
Pothr3
Potbr4
           %W21.B Potenziometro mandrino nø4
//--- Commandi dei mandrini
STOPBR4 %W22.3 Richiesta d'arresto del mandrino nø 4
STOPBR3 %W22.2 Richiesta d'arresto del mandrino nø 3
STOPBR2 %W22.1 Richiesta d'arresto del mandrino nø 2
STOPBR1 %W22.0 Richiesta d'arresto del mandrino nø 1
Combr4 %W23.3 Comando mandrino nø4
Combr3 %W23.2 Comando mandrino nø3
Combr2 %W23.1 Comando mandrino nø2
Combr1 %W23.0 Comando mandrino nøl
C_vitbr1 %W24.W Riferimento velocità mandrino nøl C_vitbr2 %W26.W Riferimento velocità mandrino nø2 C_vitbr3 %W28.W Riferimento velocità mandrino nø3 C_vitbr4 %W2A.W Riferimento velocità mandrino nø4
C_vitbr1
               %W24.W Riferimento velocità mandrino nøl
//
//--- Interdizione dei tipi di JOG
Njqmaniv
               %W2C.1 Interdizione del volantino
Njq0001 %W2C.0 Interdizione incremento 0,001 mic
Njq001 %W2D.7 Interdizione incremento 0,01 mic
Njg01 %W2D.6 Interdizione incremento 0,1 mic
               %W2D.5 Interdizione incremento 1 mic
Njg1
               %W2D.4 Interdizione incremento 10 mic
Njq10
Njg100 %W2D.3 Interdizione incremento 100 mic
Nig1000 %W2D.2 Interdizione incremento 1000 mic
Njg10000 %W2D.1 Interdizione incremento 10000 mic
Nigillim
             %W2D.0 Interdizione del JOG illimitato
//
//--- Interdizione dei modi
//
I pom
              %W30.7 Interdizione modo POM
I_pom %W30.7 Interdizione modo POM I_pref %W30.6 Interdizione modo RIF
          %W30.5 Interdizione modo REGUT
I regout
I_charg %W30.2 Interdizione modo %IN
```

```
I dcha
               %W30.0 Interdizione modo %OUT
I cont
              %W31.7 Interdizione modo CONTINUO
_
I_seq
            %W31.6 Interdizione modo SEOUENZ.
I imd
             %W31.5 Interdizione modo IMD
I rapid %W31.4 Interdizione modo RAPIDO
I rns %W31.3 Interdizione modo RNS
I modif %W31.2 Interdizione modo MODIF
I test %W31.1 Interdizione modo TEST
             %W31.0 Interdizione modo MANU
I_jog
//
//---- Validazione della coppia su gli assi DISC
//
//----- Validazione della velocità sgli assi DISC
Disc_spd %W38.0 1 ==> velocità ON su tutti gli assi DISC
//---- Ritorno su traettoria
//
RAP_AUTO %W39.2 Richiamo automatico
B_RETOUR %W39.1 Domanda di ritorno sulla traettoria
B RECUL %W39.0 Domanda di arretramento sulla traettoria
//---- ARRESTO AVANZAMENTI DEGLI ASSI
//
STOPAX8
         %W3C.0 Arresto avanzamenti asse Nø 8
STOPAX7 %W3D.7 Arresto avanzamenti asse Nø 7
STOPAX6 %W3D.6 Arresto avanzamenti asse Nø 6
STOPAX5 %W3D.5 Arresto avanzamenti asse Nø 5
STOPAX4 %W3D.4 Arresto avanzamenti asse Nø 4
STOPAX3 %W3D.3 Arresto avanzamenti asse Nø 3
STOPAX2 %W3D.2 Arresto avanzamenti asse Nø 2
STOPAX1 %W3D.1 Arresto avanzamenti asse Nø 1
STOPAX0 %W3D.0 Arresto avanzamenti asse Nø 0
//---- DEFAULT e DIAGNOSTICA DEL SISTEMA
//---- Consumo monitor PLC %TS0, %TS1, %TS2, %TS3, %TS4, %TS5 (en %)
//---- Superamento tempo di calcolo
//
Sys_avrl %R950.B T. Medio monitor PLC (ciclo %TS1)
Sys_maxl %R951.B T. Massimo monitor PLC (ciclo %TS1)
Ts0_avrl %R952.B T. Medio %TS0 (ciclo %TS1)
Ts0_maxl %R953.B T. Massimo %TS0 (ciclo %TS1)
Tsl avr %R954.B T. Medio %TSl
Tsl_max %R955.B T. Massimo %TS1
Overrun1 %R956.W Superamento tempo (ciclo %TS1)
Sys avr2 %R958.B T. medio monitor PLC (ciclo %TS2)
```

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Project: Simboli.lib	TITRE		Date	28-02-2018
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```
Sys_max2
                %R959.B T. massimo monitor PLC (ciclo %TS2)
Ts0 avr2
               %R95a.B T. medio %TS0 (ciclo %TS2)
Ts0 max2
               %R95b.B T. massimo %TS0 (ciclo %TS2)
Ts2 avr %R95c.B T. medio %TS2
Ts2 max %R95d.B T. massimo %TS2
Overrun2
               %R95e.W Superamento tempo (ciclo %TS2)
//
Svs avr3
               %R960.B T. medio monitor PLC (ciclo %TS3)
Svs max3
               %R961.B T. massimo monitor PLC (ciclo %TS3)
Ts0 avr3
               %R962.B T. medio %TS0 (ciclo %TS3)
Ts0_max3
               %R963.B T. massimo %TS0 (ciclo %TS3)
Ts3 avr %R964.B T. medio %TS3
Ts3_max %R965.B T. massimo %TS3
Overrun3
               %R966.W Superamento tempo (ciclo %TS3)
//
Sys avr4
               %R968.B T. medio monitor PLC (ciclo %TS4)
Sys_max4
               %R969.B T. massimo monitor PLC (ciclo %TS4)
Ts0 avr4
               %R96a.B T. medio %TS0 (ciclo %TS4)
Ts0 max4
               %R96b.B T. massimo %TS0 (ciclo %TS4)
Ts4 avr %R96c.B T. medio %TS4
Ts4 max %R96d.B T. massimo %TS4
Overrun4
               %R96e.W Superamento tempo (ciclo %TS4)
//
Sys_avr5
               %R970.B T. medio monitor PLC (ciclo %TS5)
Svs max5
               %R971.B T. massimo monitor PLC (ciclo %TS5)
Ts0 avr5
               %R972.B T. medio %TS0 (ciclo %TS5)
Ts0_max5
               %R973.B T. massimo %TS0 (ciclo %TS5)
Ts5_avr %R974.B T. massimo %TS5
Ts5 max %R975.B T. massimo %TS5
               %R976.W Superamento tempo (ciclo %TS5)
Overrun5
Defhtr
                %R97c.W Supramento tempi generale
Defcarte
               %R97F.2 Difetto schede I/O
Defconf %R97F.1 Difetto configurazione schede
Defbus %R97F.0 Difetto bus I/O
//
//---- GESTIONE DIFETTI DI SISTEMA
//
Inib_e33
               %W900.0 1 => Interdizione E33...
//
Stopcart
               %W97F.2 Stop difetto schede I/O
Stopconf
               %W97F.1 Stop difetto configurazione schede
Stopbus %W97F.0 Stop difetto bus I/O
```

Author:		NITIM	TOOLS	
Company:		NOM	тоопа	•
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Module: ES_CN.XSY			Page	4

00 Label: Step: Sblocco pannello durante lavorazione Sel_morab X_exec_a Vacu_a (1) Em pznbl Mem. emergenza per pezzo non blo -(S)--]/[-%V28.7 %I4100.2 %I4200.4 %V5b4.0 X_exec_b Vacu bi _] / [_ %V5b4.1 %I4200.5 Sel_morcd X_exec_c Vacu_cl —] / [– _] [— —]/[— %I4100.3 %V5b4.2 %I4200.6 X_{exec_d} Vacu_d -1 [-—] / [— %V5b4.3 %I4200.7 (1) %R3.7, %V502.7, %M800.6 E_oper, X_ventose, Nesting 01 Label: Step: Sblocco pannello durante lavorazione Sel_morab Okpres_ab Em_pznbl X_exec_a (1) Mem. emergenza per pezzo non blo —] / [— -1 [-- 1 / [--(S)-%15000.4 %V28.7 %I4100.2 %V5b4.0 X_exec_b Okpres_ab —] / [*—* %I5000.4 %V5b4.1 Sel_morcd X_exec_c Okpres_cd —][— _ 1 [— —] / [— %I4100.3 %V5b4.2 %I5000.5

(1) %R3.7, %V502.7, %M800.6 : E_oper, X_ventose, Nesting

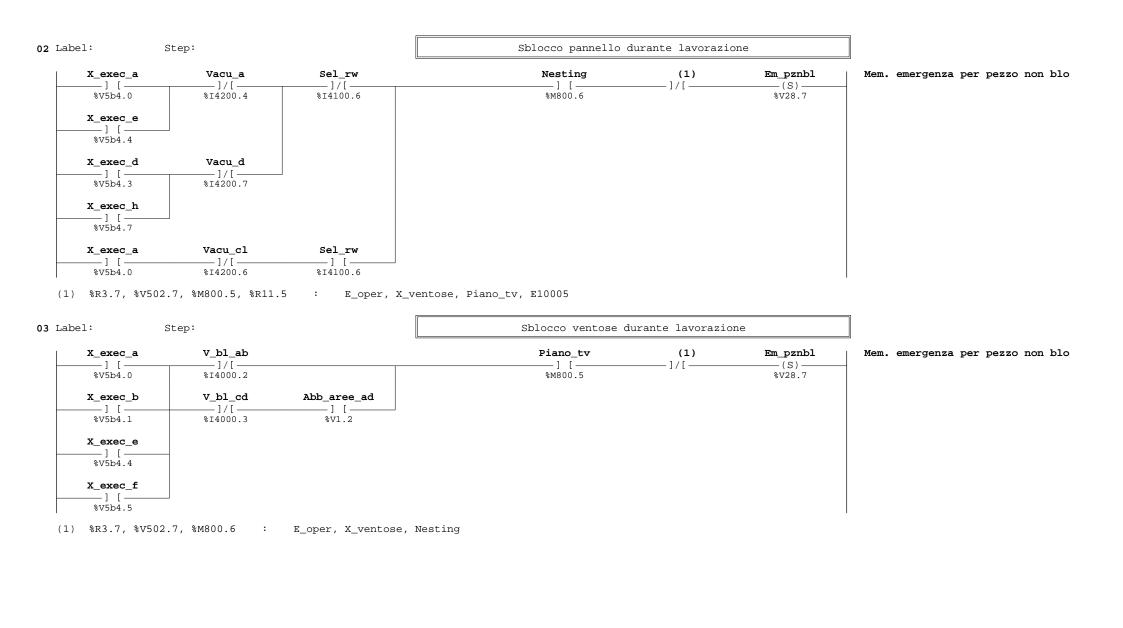
Okpres_cd

%I5000.5

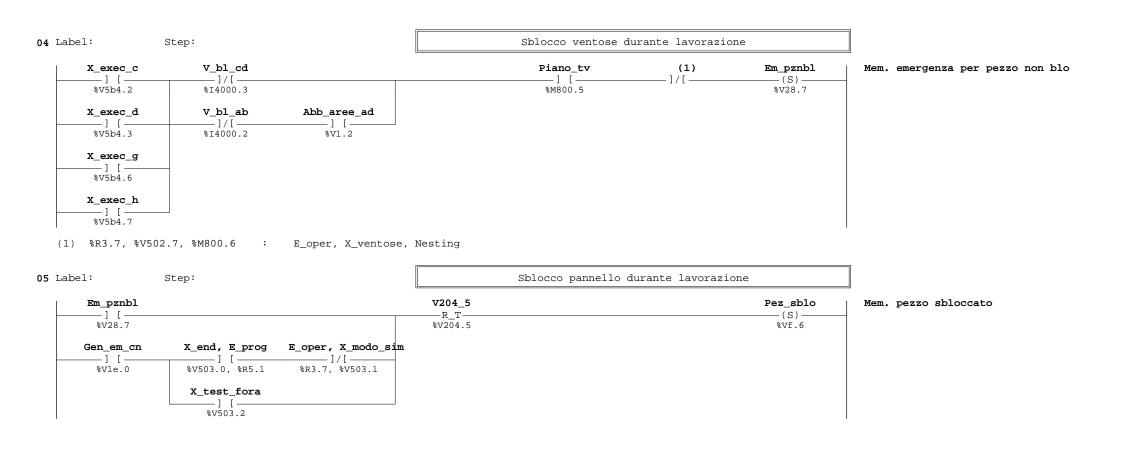
 X_exec_d

%V5b4.3

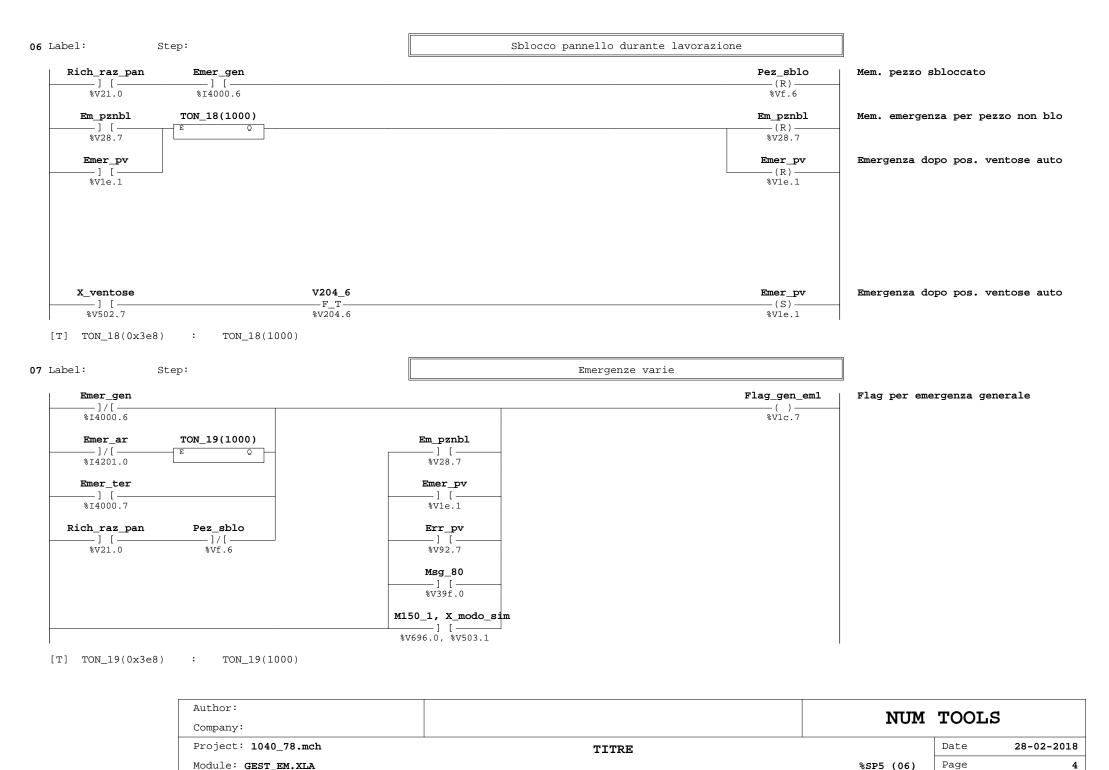
Author:		NTTM	TOOL	d
Company:		NOM	1001	15
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Module: GEST_EM.XLA		%SP5 (00)	Page	1

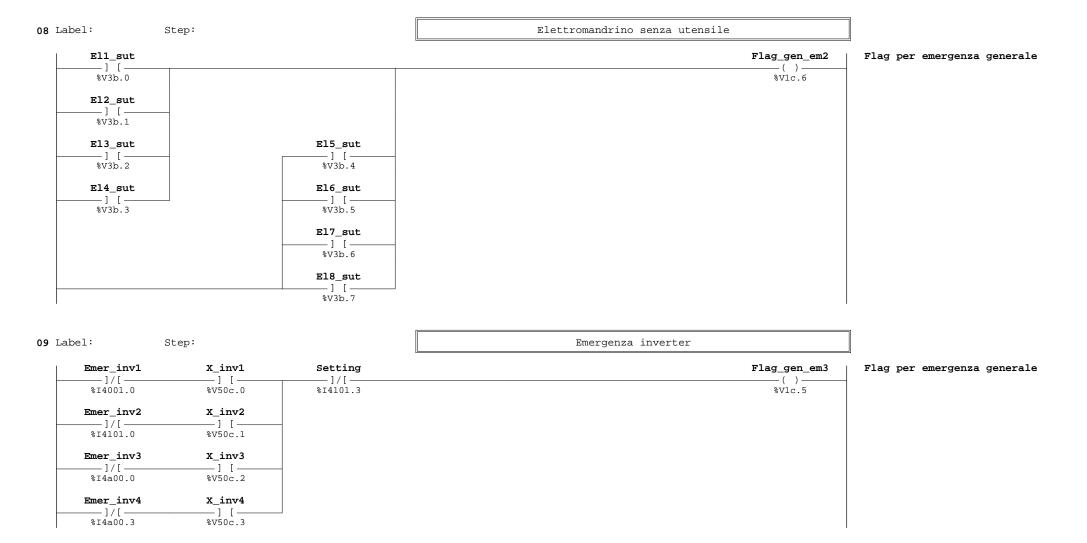


Author:		NUM	TOOI	r a
Company:		MOM	1001	10
Project: 1040_78.mch	TITRE		Date	28-02-2018
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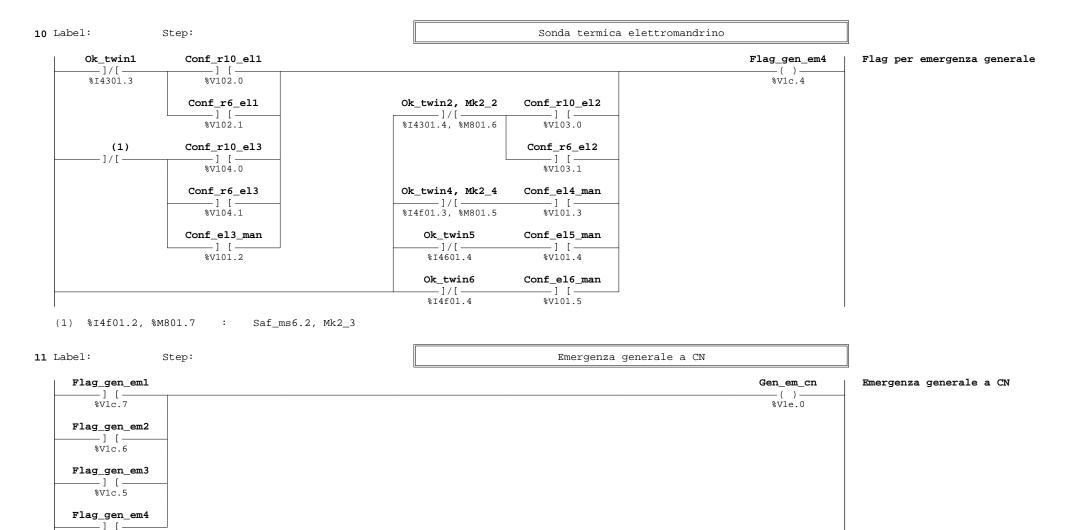


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Company:		NOM	тооп.	
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%V1c.4

[COMPIL_C]
EdExt=
VerMcc=V4.2D
ListIndex= 0
Copross=False
VerProcess=68020
Fichier=C:\numtool\BD\1040_78.mch\ICLA_232.MAK

Author: Company:		NUM	TOOLS	3
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00 Label: PDL Step: Pdl_icla goto(STD) —] / [— — (T)— %M803.0 **01** Label: Step: %V7800.L def. nome funzione -C 00: %V7800.L : Icla_232 "ICLA_232" 02 Label: TH 4 Step: Init del modulo- C e attivazione THO (4ms) (1) (T) — (2) -(T)-(1) %V7806.W = exechdl(%V7800.L) : P_funzc = exechdl(Icla_232) (2) thtimer(0x0, 0x0, 0x4) : thtimer(0, 0, 4) 03 Label: Step: Init Global Zone (n. porta SERIAL 1 , n. motori = IclAs) N_port = 2 — (T)— %V7001.B = 0x2 $N_assi = 14$ — (T) — %V7002.B = 0xe Init_icla reset memorie all'inizializzazio — (S) — %V4033.7

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Module: INIT.XLA		%INI (00)	Page	1

```
04 Label:
                                                                         Puntatore Buffer - Richieste
                  Step:
                                                                                                             (1)
                                                                                                           -(T)-
                                                                                                       %V7000.B = 0
                                                                                                          — (T)—
                                                                                                       V7000.B = 0x0
                                                                                                       %V700f.B = 20
                                                                                                          — (T)—
                                                                                                       %V700f.B = 0x14
   (1) %V7008.L = %V7700.& : Ind_params = %V7700.&
05 Label: STD
                  Step:
                                                             Watchdog, lettura moduli R10, azzera ruote, plc release
                                                                                                         Watchdog
                                                                                                                        Watchdog
                                                                                                           _ ( ) _
                                                                                                          %Q413b.0
                                                                                                         Modulo_44
                                                                                                                        Abilitazione accesso modulo 44
                                                                                                          ___( )__
                                                                                                         %Q443b.1
                                                                                                         Modulo_49
                                                                                                                        Abilitazione accesso modulo 49
                                                                                                          __( ) __
                                                                                                          %Q493b.1
                                                                      Ind_dec_m1 = 0
                                                                                      Ind_dec_m2 = 0
                                                                                                       Ind_dec_m3 = 0
                                                                        — т —
                                                                                        — т —
                                                                                                        —— (T)—
                                                                                        M2c.W = 0x0
                                                                       M2a.W = 0x0
                                                                                                        M2e.W = 0x0
                                                       E30100 = -1
                                                                       E30105 = -1
                                                                                       Mag_pos1 = 0
                                                                                                       Mag_pos2 = 0
                                                                                        — т —
                                                                         — т —
                                                                                                          — (T)—
                                                   M88.L = 0x0
                                                                                                        M8c.L = 0x0
                                                                                                        Plcrel = 78
                                                                                                          — (T)—
                                                                                                       V52f.B = 0x4e
```

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Company:		NOM	1001	10
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```
06 Label:
                       Step:
                                                                                                                                        (1)
                                                                                                                                      -(T)-
                                                                                                                                        (2)
                                                                                                                                      -(T)-
         Pdl_icla
                                                                                                                                 Def_ser = 2
          __]/[_
                                                                                                                                     — (T)——
                                                                                                                                 M410.B = 0x2
          %M803.0
                                                                                                                                        (3)
                                                                                                                                     —(T)-
   (1) \quad \mathsf{comf}(0\mathsf{x}1,\ 0\mathsf{xe}100,\ 0\mathsf{xe}100,\ 0\mathsf{x}609) \qquad \vdots \qquad \mathsf{comf}(1,\ 57600,\ 57600,\ 1545)
   (2) M4f7.B = 0x4 ; M4fa.B = 0x2 ; M503.B = 0x3 : Bl_eot = 4 ; B4_stx = 2 ; B13_etx = 3
   (3) comf(%M410.B, 0x2580, 0x2580, 0x22f) : comf(Def_ser, 9600, 9600, 559)
07 Label:
                      Step:
                                                                                                                                   %Q533b.1
                                                                                                                                   Modulo_45
                                                                                                                                                     Abilitazione accesso modulo 45
                                                                                                                                     — ( ) —
                                                                                                                                    %Q453b.1
```

08 Label: Step:

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Company:				
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Module: INIT.XLA		%INI (06)	Page	3

00 Label: Step: Test_pgm > 0 Jog_icla Jog motori PDL —] > [— — (R)— %M48.W > 0x0 %V4032.1 **01** Label: %M5b.W JOG Step: Jog pv = 0 Abijogpm_x JOG/TARATURA — () — %V525.7 V211_2.5 Comando JOG [Piano Mot.] X_abijogpm Sel_man_aut Ps_start Emer_gen Stjogpm_x _][_ _][_ _][_ _][_ —R_T— —(S)— %V524.7 %V5d6.4 %I4101.4 %V202a.0 %I4000.6 %V211.5 V205_4.5 X_stjogpm $Jog_pv = 1$ —][— —R_T— — (T) — %V1151.7 %V205.5 M5b.W = 0x1Stjogpm_x Comando JOG [Piano Mot.] — (R)— %V524.7 goto(END) — (T)— 02 Label: M5b.W = 1Step: Jog_pv $M1518 = X_index$ — (T)— %M1518.W = %V5dc.W

Author:			NUM	TOOLS	
Company:			NOM	10015	
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Module: ن	OG_ICLA.XLA		%SP221 (00)	Page	1

03 Label: %M5b.W Step: Jog_pv = 1 Xil_modo == 1 Tab_pm[M1518] == 168 Jog_icla Jog motori PDL —] **>** [— _ 1>[_ —(S)— %V5000.L[%M1518.W] == 0xa8 %V4032.1 %V506.W == 0x1 $Jog_pv = 4$ — (T) — M5b.W = 0x4Tab pm[M1518] == 163 $Jog_pv = 2$ ____]>[____ — (T)— %V5000.L[%M1518.W] == 0xa3 M5b.W = 0x2Tab pm[M1518] != 163 Tab_pm[M1518] != 168 $Jog_pv = 99$]>[____ ___]>[__ — (T) — %V5000.L[%M1518.W] != 0xa3 %V5000.L[%M1518.W] != 0xa8 M5b.W = 0x63tentativo di posizionare una ven Alarm pgm — () – %V4031.5 goto(END) — (T) — 04 Label: Step: Jog pv %M5b.W = 2

Sb vent a Blocco/sblocco ventose area A —(R)— %05201.2 Sb_vent_b Blocco/sblocco ventose area B — (R)-%05201.3 Sb vent c Blocco/sblocco ventose area C — (R)— %Q5201.4 Sb_vent_d Blocco/sblocco ventose area D — (R)— %05201.5 Cil_pdl_ab Abil. cilindro aggancio area AB —(R)-%Q5201.0 Cil_pdl_cd Abil. cilindro aggancio area CD —(R)-%Q5201.1

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Company:		NOM	тооп	5
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Module: JOG_ICLA.XLA		%SP221 (03)	Page	2

05 Label:	Step: Jog_pv	%M5b.W	= 2			
					Cil_pdl_1 (R)	Abil. cilindro aggancio ventose
					 Cil_pdl_2 (R)	Abil. cilindro aggancio ventose
					Cil_pdl_3	Abil. cilindro aggancio ventose
					(R)	_
					Cil_pdl_4	Abil. cilindro aggancio ventose
					(R)	
					Cil_pdl_5(R)	Abil. cilindro aggancio ventose
					%Q5200.4	
					Cil_pdl_6 (R)	Abil. cilindro aggancio ventose
I					%Q5Z00.5	
06 Label:	Step: Jog_pv	%M5b.W	= 2			
06 Label:	Step: Jog_pv	%M5b.W	= 2		Cil_pdl_7	Abil. cilindro aggancio ventose
06 Label:	Step: Jog_pv	%M5b.W	= 2		Cil_pdl_7 (R)	Abil. cilindro aggancio ventose
06 Label:	Step: Jog_pv	%M5b.W	= 2		(R)	Abil. cilindro aggancio ventose Abil. cilindro aggancio ventose
06 Label:	Step: Jog_pv	%M5b.W	= 2		(R)	Abil. cilindro aggancio ventose
06 Label:	Step: Jog_pv	%M5b.W	= 2		(R) %Q5200.6 Cil_pdl_8 (R) %Q5200.7 Cil_pdl_9	
06 Label:	Step: Jog_pv	%M5b.W	= 2		(R) %Q5200.6 Cil_pdl_8 (R) %Q5200.7 Cil_pdl_9 (R) (R) %Q5400.0	Abil. cilindro aggancio ventose Abil. cilindro aggancio ventose
06 Label:	Step: Jog_pv	%M5b.W	= 2		(R) %Q5200.6 Cil_pdl_8 (R) %Q5200.7 Cil_pdl_9	Abil. cilindro aggancio ventose
06 Label:	Step: Jog_pv	%M5b.W	= 2		(R) %Q5200.6 Cil_pdl_8 (R) %Q5200.7 Cil_pdl_9 (R) %Q5400.0 Cil_pdl_10 (R) %Q5400.1 Cil_pdl_11	Abil. cilindro aggancio ventose Abil. cilindro aggancio ventose
06 Label:	Step: Jog_pv	%M5b.W	= 2		(R) %Q5200.6 Cil_pdl_8 (R) %Q5200.7 Cil_pdl_9 (R) %Q5400.0 Cil_pdl_10 (R) %Q5400.1	Abil. cilindro aggancio ventose Abil. cilindro aggancio ventose Abil. cilindro aggancio ventose
06 Label:	Step: Jog_pv	%M5b.W	= 2		(R) %Q5200.6 Cil_pdl_8 (R) %Q5200.7 Cil_pdl_9 (R) %Q5400.0 Cil_pdl_10 (R) %Q5400.1 Cil_pdl_11	Abil. cilindro aggancio ventose Abil. cilindro aggancio ventose Abil. cilindro aggancio ventose

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Module: JOG_ICLA.XLA		%SP221 (05)	Page	3

```
Jog_pv = 3
                                                                                                         ---- (T) ----- 
%M5b.W = 0x3
                                                                                                          goto(END)
                                                                                                          — (T) —
08 Label: INIZIO Step: Jog_pv
                                 M5b.W = 3
                                                                                 INDICE motore
   M1518 = M1518 + 8
                                                                                                              (1)
                                                                                                            -(T)—
   M1518.W = M1518.W + 0x8
   (1) M1514.W = V5000.L[M1518.W] : M1514 = Tab_pm[M1518]
09 Label:
                Step: Jog_pv
                                  M5b.W = 3
                                                                          Sblocco strette pneumatiche
   M1518 = M1518 + 16
                                                                                                              (1)
     — т —
                                                                                                            -(T)-
   M1518.W = M1518.W + 0x10
                                                                                                     M1518 = M1518 + 4
                                                                                                        —— (T)—
                                                                                                 M1518.W = M1518.W + 0x4
   (1) M1512.W = V5000.L[M1518.W] : M1512 = Tab_pm[M1518]
```

M5b.W = 2

Step: Jog pv

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Company:		NOM	тоопр	
Project: 1040_78.mch	TITRE		Date	28-02-2018
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07 Label:

10 Label: %M5b.W Step: Jog pv = 3 M1512 == 1(1) Sb_vent_a Blocco/sblocco ventose area A —] **>** [— — (S) — %Q5201.2 %M1512.W == 0x1 $Tab_pm[M1518] == 2$ Sb vent b Blocco/sblocco ventose area B — l > [— — (S)-V5000.L[M1518.W] == 0x2%Q5201.3 $Tab_pm[M1518] == 3$ Sb vent c Blocco/sblocco ventose area C — (S)-V5000.L[M1518.W] == 0x3%05201.4 $Tab_pm[M1518] == 4$ Sb vent d Blocco/sblocco ventose area D _____1>[___ — (S)-%V5000.L[%M1518.W] == 0x4 %05201.5 (2) (T)-(1) V5000.L[M1518.W] == 0x1 $Tab_pm[M1518] == 1$ (2) %M1518.W = %M1518.W - 0x8 M1518 = M1518 - 8**11** Label: Step: Jog pv %M5b.W = 3 Jog pistoncini piani (1) M1514 == 1Cil_pdl_ab Abil. cilindro aggancio area AB —] > [— — (S)-M1514.W == 0x1%Q5201.0 M1514 == 2Cil pdl cd Abil. cilindro aggancio area CD ___]>[___ —(S)-%M1514.W == 0x2 %Q5201.1 Sb_vent_a V_sb_vent_a Appoggio Blocco/sblocco ventose —(S)-%05201.2 %V4040.0 V_sb_vent_b Sb_vent_b Appoggio Blocco/sblocco ventose —(S)-%V4040.1 %Q5201.3 Sb vent c V sb vent c Appoggio Blocco/sblocco ventose — 1 [— —(S)-%05201.4 %V4040.2 Sb_vent_d V_sb_vent_d Appoggio Blocco/sblocco ventose —][— —(S)-%Q5201.5 %V4040.3 (1) %V5000.L[%M1518.W] == 0x1 Tab pm[M1518] == 1Author: NUM TOOLS Company: Project: 1040_78.mch Date 28-02-2018 TITRE

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(1)	M1514 == 3	Cil_pdl_1	Abil. cilindro aggancio
-]>[]>[M1514.W == 0x3	(S)_ %Q5200.0	
	M1514 == 4	Cil_pdl_2	Abil. cilindro aggancio
ક]>[M1514.W == 0x4	(S)_ %Q5200.1	
	M1514 == 5	Cil_pdl_3	Abil. cilindro aggancio
8]>[M1514.W == 0x5	(S) %Q5200.2	
	M1514 == 6	Cil_pdl_4	Abil. cilindro aggancio
8]>[M1514.W == 0x6	(S)_ %Q5200.3	
	M1514 == 7	Cil_pdl_5	Abil. cilindro aggancio
]>[M1514.W == 0x7	(S) %Q5200.4	
	M1514 == 8]>[Cil_pdl_6 (S)	Abil. cilindro aggancio
	— — — — — — — — — — — — — — — — —		
V5000.L[%M1518.	M1514.W == 0x8 W] == 0x1 : Tab_pm[M1518] == 1 D: Jog_pv %M5b.W = 3	%Q5200.5	
V5000.L[%M1518. Step	M1514.W == 0x8 W] == 0x1 : Tab_pm[M1518] == 1 D: Jog_pv	%Q5200.5 Cil_pdl_7	Abil. cilindro aggancio
V5000.L[%M1518. Step (1) -]>[M1514.W == 0x8 W] == 0x1 : Tab_pm[M1518] == 1 :: Jog_pv	%Q5200.5	Abil. cilindro aggancio
V5000.L[%M1518. Step (1) -]>[M1514.W == 0x8 W] == 0x1 : Tab_pm[M1518] == 1 D: Jog_pv %M5b.W = 3 M1514 == 9 M1514.W == 0x9 M1514 == 10	Cil_pdl_7(S)	
V5000.L[%M1518. Step (1) -]>[M1514.W == 0x8 W] == 0x1 : Tab_pm[M1518] == 1 D: Jog_pv %M5b.W = 3 M1514 == 9 M1514.W == 0x9	Cil_pdl_7(S)	_
V5000.L[%M1518. Step (1) -]>[M1514.W == 0x8 W] == 0x1 : Tab_pm[M1518] == 1 D: Jog_pv %M5b.W = 3 M1514 == 9 M1514.W == 0x9 M1514 == 10 M1514.W == 0xa M1514 == 11	Cil_pdl_7(S)	Abil. cilindro aggancio
V5000.L[%M1518. Step (1) -]>[M1514.W == 0x8 .W] == 0x1 : Tab_pm[M1518] == 1 .: Jog_pv	#Q5200.5 Cil_pdl_7	Abil. cilindro aggancio
V5000.L[%M1518. Step (1) -]>[M1514.W == 0x8 W] == 0x1 : Tab_pm[M1518] == 1 D: Jog_pv %M5b.W = 3 M1514 == 9 M1514.W == 0x9 M1514.W == 0x9 M1514.W == 0xa M1514 == 11 M1514.W == 0xb M1514.W == 0xb M1514 == 12	Cil_pdl_7(S)	Abil. cilindro aggancio
V5000.L[%M1518. Step (1) -]>[M1514.W == 0x8 W] == 0x1 : Tab_pm[M1518] == 1 D: Jog_pv	Cil_pdl_7(S)	Abil. cilindro aggancio
V5000.L[%M1518. Step (1) -]>[M1514.W == 0x8 W] == 0x1 : Tab_pm[M1518] == 1 D: Jog_pv	Cil_pdl_7(S)	Abil. cilindro aggancio Abil. cilindro aggancio Abil. cilindro aggancio
V5000.L[%M1518. Step (1) -]>[M1514.W == 0x8 W] == 0x1 : Tab_pm[M1518] == 1 D: Jog_pv %M5b.W = 3 M1514 == 9 M1514.W == 0x9 M1514.W == 0x9 M1514.W == 0xa M1514.W == 0xa M1514.W == 0xb M1514.W == 0xb M1514.W == 0xc	Cil_pdl_7 (S) %Q5200.6 Cil_pdl_8 (S) %Q5200.7 Cil_pdl_9 (S) %Q5400.0 Cil_pdl_10 (S) %Q5400.1	Abil. cilindro aggancio Abil. cilindro aggancio Abil. cilindro aggancio
V5000.L[%M1518. Step (1) -]>[M1514.W == 0x8 W] == 0x1 : Tab_pm[M1518] == 1 D: Jog_pv	Cil_pdl_7	Abil. cilindro aggancio Abil. cilindro aggancio

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M5b.W = 3**14** Label: Step: Jog_pv (1) (1) %M1518.W = %M1518.W + 0xc M1518 = M1518 + 12**15** Label: Step: Jog pv M5b.W = 3 $Tab_pm[M1518] == 163$ goto(INIZIO) —] > [— ——(T)— %V5000.L[%M1518.W] == 0xa3 Tab_pm[M1518] == 170 M1512 = 0M1514 = 0M1518 = 0 $Jog_pv = 0$ — т — — т — — (T)— — т — %V5000.L[%M1518.W] == 0xaa %M1512.W = 0x0 %M1514.W = 0x0 %M1518.W = 0x0 M5b.W = 0x0M1512 = 0(1) (2) M1514 = 0M1518 = 0 $Jog_pv = 99$ — т — — т — — т — — (T)— M1512.W = 0x0M1514.W = 0x0M1518.W = 0x0M5b.W = 0x63tentativo di posizionare una ven Alarm pgm ___() __ %V4031.5 qoto(END) — (T) – (1) %V5000.L[%M1518.W] != 0xa3 : Tab_pm[M1518] != 163 (2) %V5000.L[%M1518.W] != 0xaa : Tab_pm[M1518] != 170

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16 Label:	Step: Jog_pv	%M5b.W	= 4			
					Sb_vent_a (R)	Blocco/sblocco ventose area A
					%Q5201.2	
					Sb_vent_b (R)	Blocco/sblocco ventose area B
					%Q5201.3	
					Sb_vent_c	Blocco/sblocco ventose area C
					%Q5201.4	
					Sb_vent_d	Blocco/sblocco ventose area D
					(R)	
					Jog_pv = 0	

17 Label: END Step:

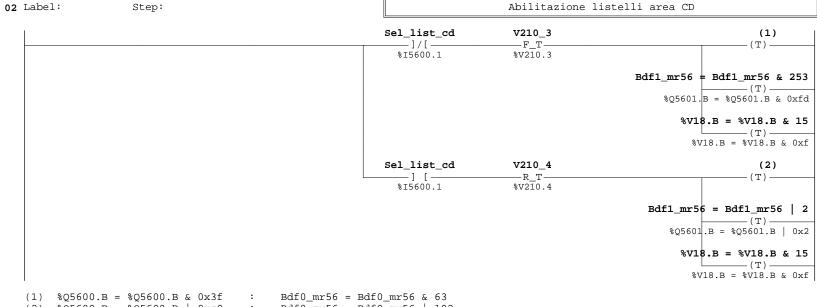
Author:		NITIM	TOOL	Q
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```
00 Label:
                    Step:
                                                                           Verifica se area in esecuzione o prenotata
      V5b4_b != 0
                                                                                                                   goto(FASE_FIN)
         __ ] > [ ___
                                                                                                                        —(T)-
      %V5b4.B != 0x0
      V5b5_b != 0
        ____]>[____
      %V5b5.B != 0x0
                                                                                  Abilitazione listelli area AB
01 Label:
                    Step:
                                                              Sel_list_ab
                                                                                  V210_1
                                                                                                                          (1)
                                                                — ] / [ —
                                                                                   -F_T-
                                                                                                                        —(T)—
                                                                                  %V210.1
                                                               %I5600.0
                                                                                                      Bdf1_mr56 = Bdf1_mr56 & 126
                                                                                                                       — (Т)—
                                                                                                           Q5601.B = Q5601.B \& 0x7e
                                                                                                             %V18 B = %V18.B & 240
                                                                                                                   —— (T)—
                                                                                                               %V18.B = %V18.B & 0xf0
                                                             Sel_list_ab
                                                                                  V210_2
                                                                                                                          (2)
                                                               — ] [ —
                                                                                   —R_T—
                                                                                                                        —(T)—
                                                               %I5600.0
                                                                                  %V210.2
                                                                                                        Bdf1_mr56 = Bdf1_mr56 | 1
                                                                                                            %Q5601.B = %Q5601.B | 0x1
                                                                                                             %V18.B = %V18.B & 240
                                                                                                                       — (T) —
                                                                                                              %V18.B = %V18.B & 0xf0
   (1) %Q5600.B = %Q5600.B & 0xcf
                                            Bdf0_mr56 = Bdf0_mr56 & 207
```

Bdf0_mr56 = Bdf0_mr56 | 48

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(2) $\%Q5600.B = \%Q5600.B \mid 0x30$



(2) %Q5600.B = %Q5600.B | 0xc0 : Bdf0_mr56 = Bdf0_mr56 | 192

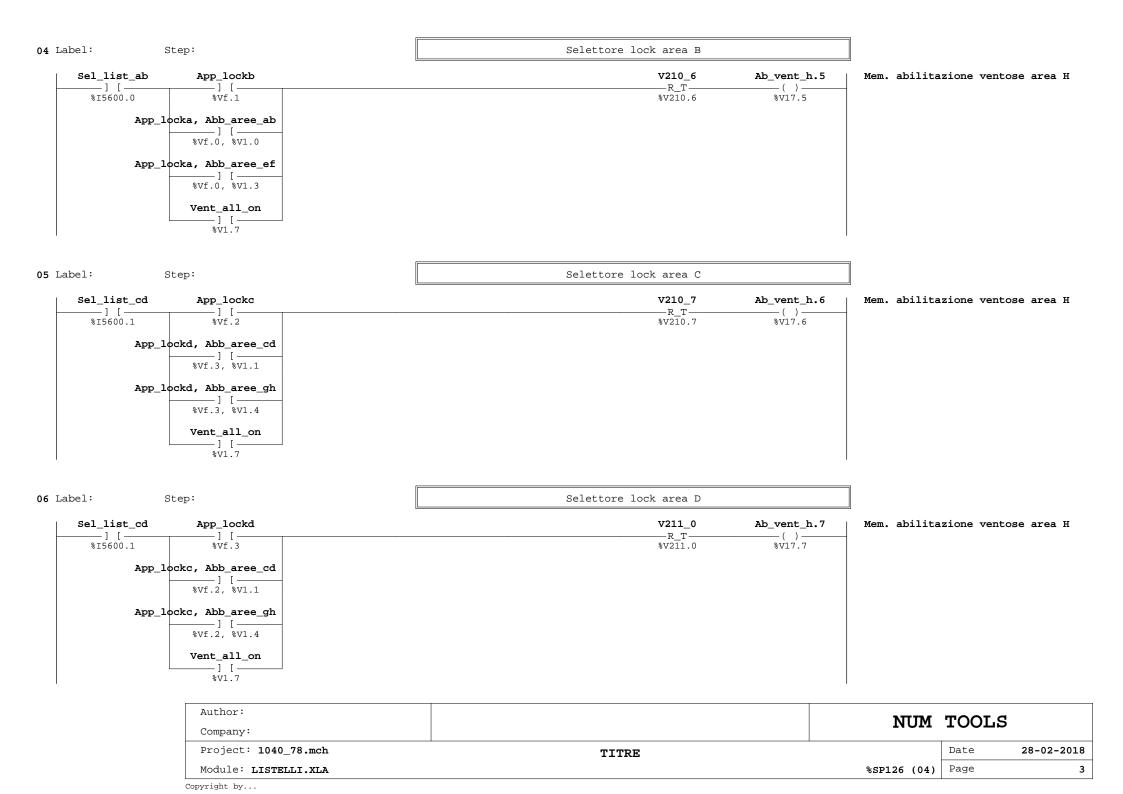
03 Label: Step:

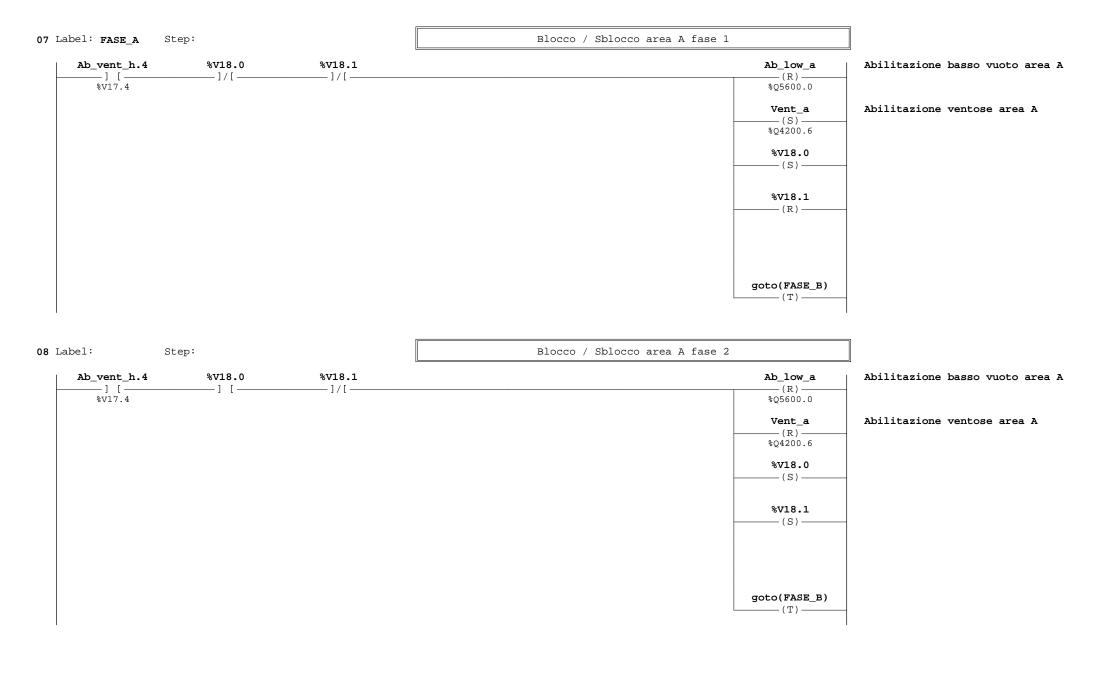
Selettore lock area A

Sel_list_ab] [App_locka 	V210_5 R_T %V210.5	Ab_vent_h.4 () %V17.4
App_1	ockb, Abb_aree_ab 		
App_1	ckb, Abb_aree_ef] [
	Vent_all_on _] [

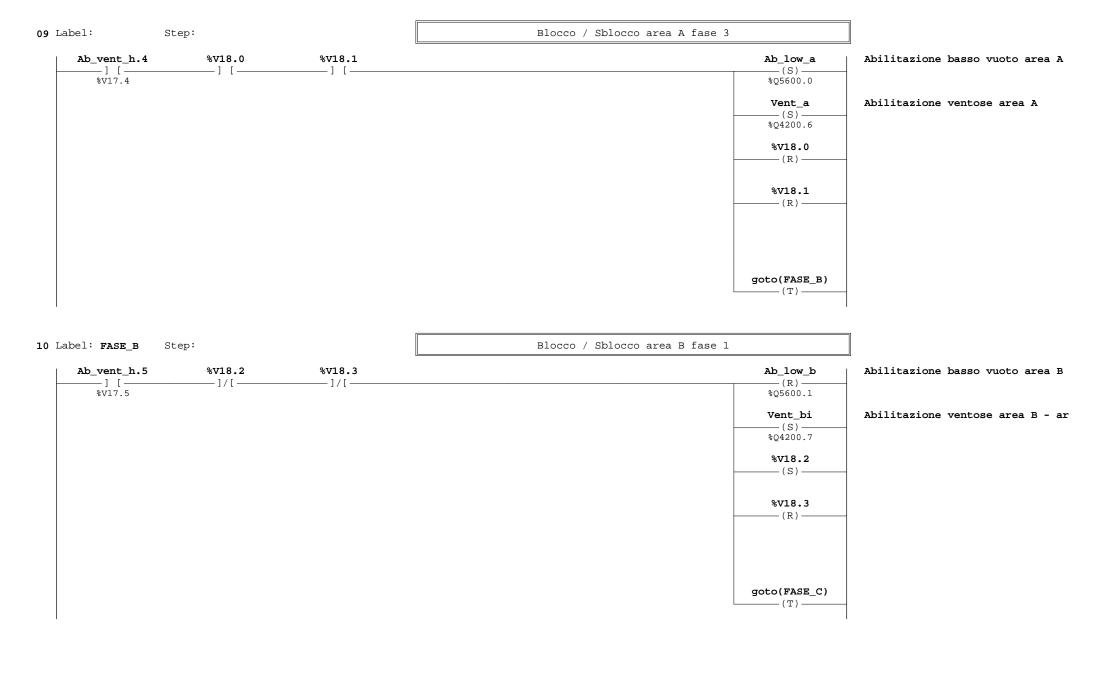
Mem. abilitazione ventose area H

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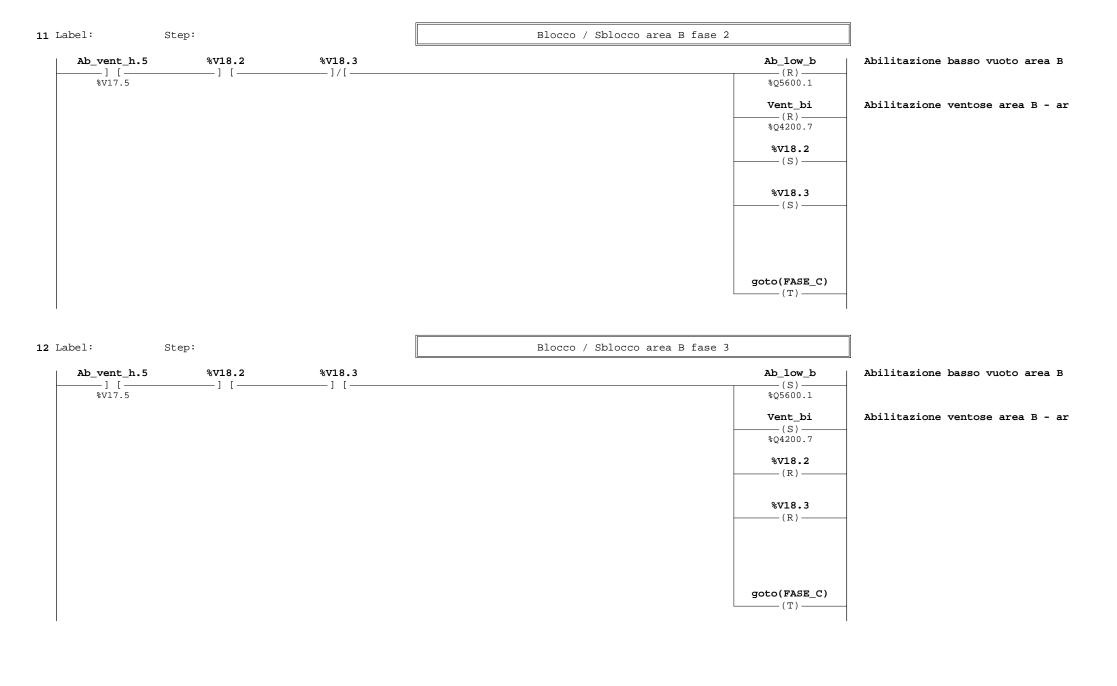




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Company:		NOM	100.	по
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13 Label: FASE C Step: Blocco / Sblocco area C fase 1 Ab_vent_h.6 %V18.4 %V18.5 Ab_low_c Abilitazione basso vuoto area C —] [— —] / [*-*— (R)-%V17.6 %05600.2 Abilitazione ventose area C - ar Vent cl ___(S)_ %Q4201.0 %V18.4 ——(S)— %V18.5 — (R) goto(FASE_D) —— (T)— Blocco / Sblocco area C fase 2 14 Label: Step: %V18.4 Ab_vent_h.6 %V18.5 Ab_low_c Abilitazione basso vuoto area C —] [— —] / [– — (R)-%V17.6 %Q5600.2 Vent_cl Abilitazione ventose area C - ar — (R)-%Q4201.0 %V18.4 — (S) — %V18.5 —(S)goto(FASE_D) ——(T)—

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15 Label: Step: Blocco / Sblocco area C fase 3 Ab_vent_h.6 %V18.4 %V18.5 Ab_low_c Abilitazione basso vuoto area C —] [— —(S)-%V17.6 %05600.2 Abilitazione ventose area C - ar Vent_cl __(S)_ %Q4201.0 %V18.4 —— (R)— %V18.5 — (R) goto(FASE_D) —— (T)— 16 Label: FASE_D Blocco / Sblocco area D fase 1 Ab_vent_h.7 %V18.6 %V18.7 Ab_low_d Abilitazione basso vuoto area D —] [— —] / [– — (R)-%V17.7 %Q5600.3 Vent_d Abilitazione ventose area D —(S)-%Q4201.1 %V18.6 — (S) — %V18.7 —(R)goto(FASE_FIN) ——(T)—

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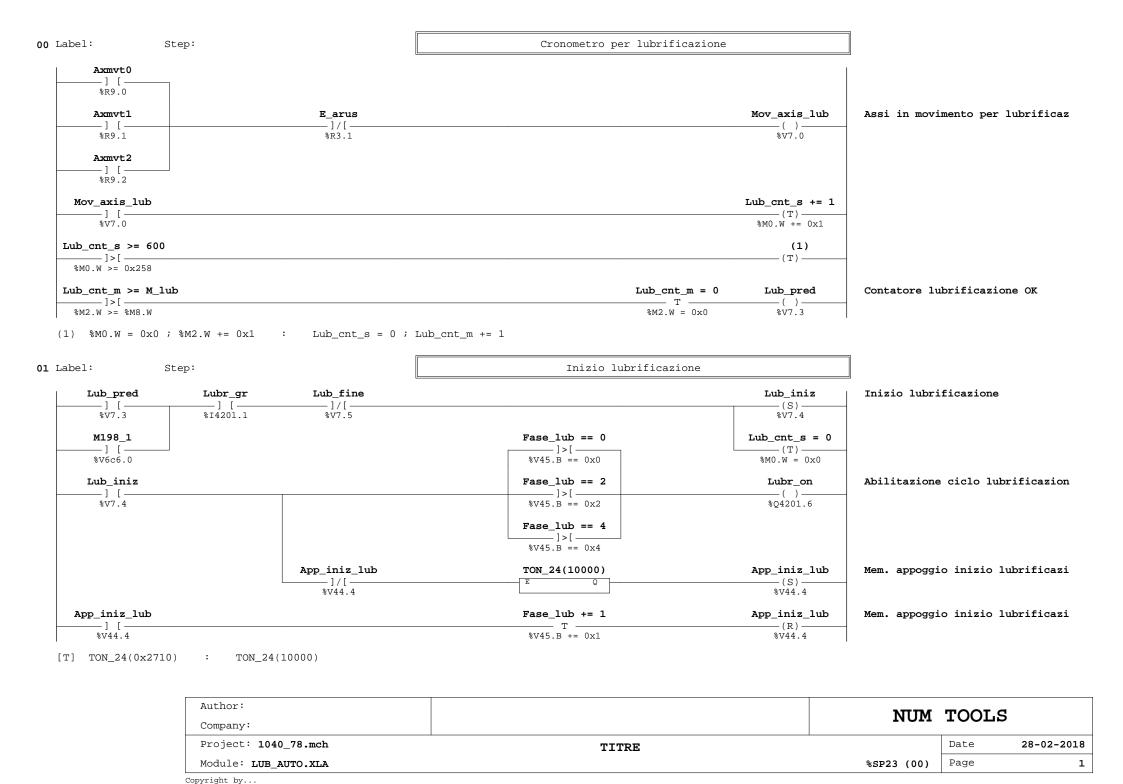
17 Label: Step: Blocco / Sblocco area D fase 2 Ab_vent_h.7 %V18.6 %V18.7 Ab_low_d Abilitazione basso vuoto area D —] [— —] / [— —(R)-%V17.7 %05600.3 Abilitazione ventose area D Vent_d — (R)-%Q4201.1 %V18.6 ——(S)— %V18.7 — (S) goto(FASE_FIN) —— (T)— Blocco / Sblocco area D fase 3 **18** Label: Step: %V18.6 %V18.7 Ab_vent_h.7 Ab_low_d Abilitazione basso vuoto area D —] [— —(S)-%V17.7 %Q5600.3 Vent_d Abilitazione ventose area D —(S)-%Q4201.1 %V18.6 — (R)— %V18.7 —(R)goto(FASE_FIN) ——(T)—

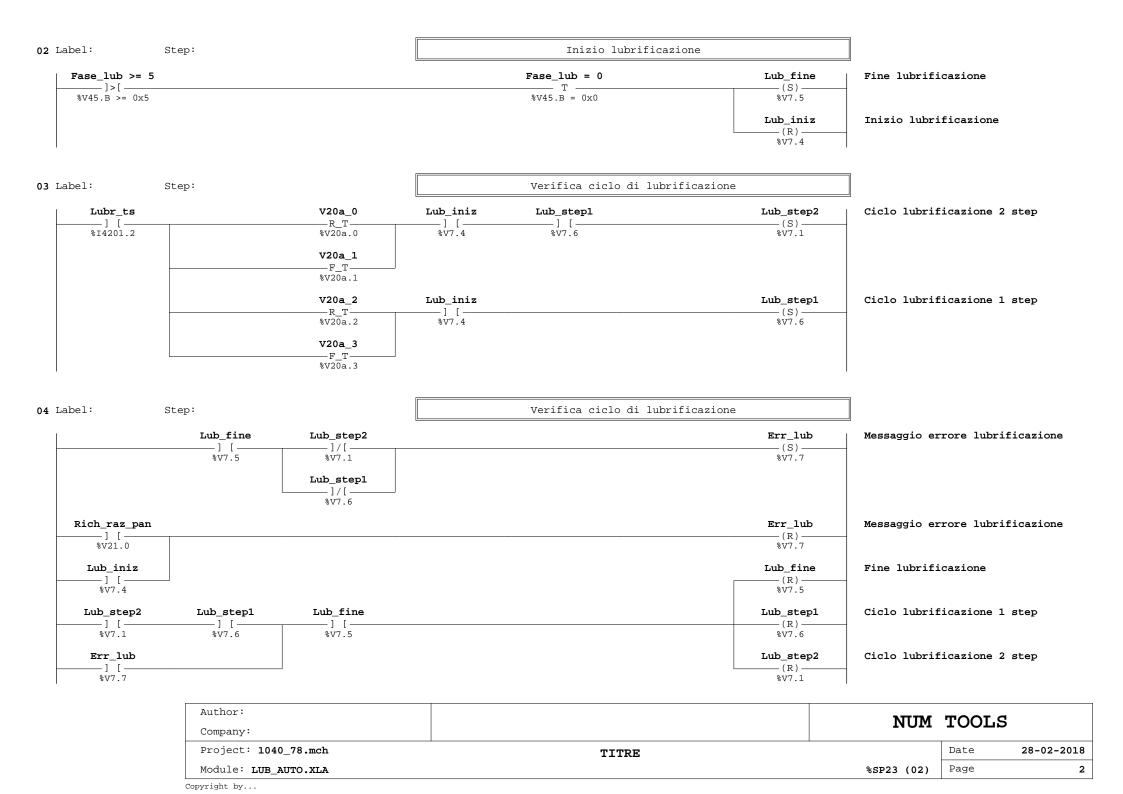
Author:		NUM TOOLS		Q
Company:		NOM	1001	Б
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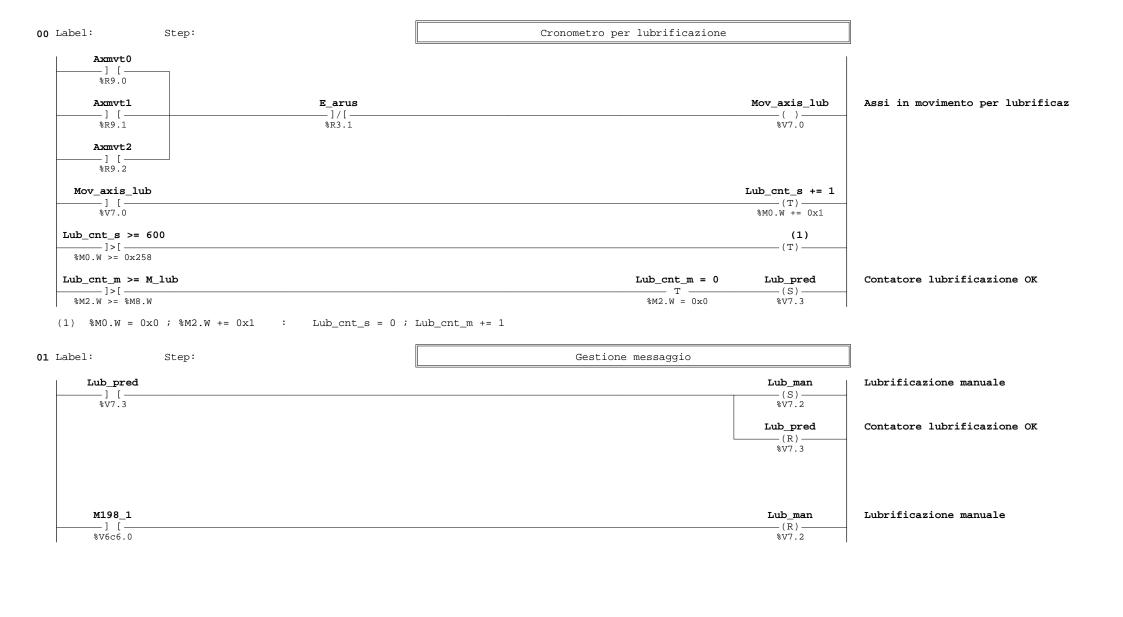
19 Label: FASE_FIN Step:

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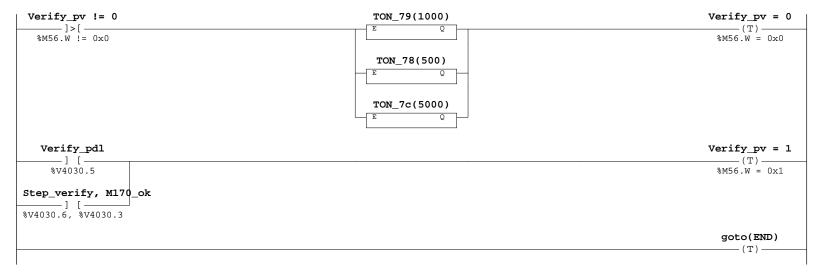






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Company:		MOM	TOOL	ib
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00 Label: Step: Verify_pv %M56.W = 0



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Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: CHECK_PV.XLA		%SP220 (00)	Page	1

```
Step: Verify_pv
                                                                                                                                      start ciclo di verifica
                                                                                                                     Verify_pdl
                                                                                                                      --- (R) ---
%V4030.5
                                                                                                                          (1)
    Step_verify, M170_ok
                                                                                                                        -(F)-
    %V4030.6, %V4030.3
                                                                                                                M1518 = Index_170
                                                                                                                      —— (T)—
                                                                                                                 %M1518.W = %V402c.W
                                                                                                                          (2)
                                                                                                                        —(T)-
                                                                                                                      M170_ok
                                                                                                                                      lettura valore 170
                                                                                                                       —(R)-
                                                                                                                      %V4030.3
                                                                                                                    Step_verify
                                                                                                                                      fine posizionamento step VERIFIC
                                                                                                                       —(R)-
                                                                                                                      %V4030.6
   (1) %M1518.W = %V4036.W
                                     M1518 = Index_verify
                                     Index_plc = M1518
   (2) %V402e.W = %M1518.W
02 Label:
                    Step: Verify_pv
                                      %M56.W
                                                                                 Lettura Indice di Spiazzamento
                                                   = 1
                                                                                                                   Verify_pv = 10
                                                                                                                       —(T)—
                                                                                                                    %M56.W = 0xa
                                                                                                                     goto(END)
                                                                                                                       — (T) –
```

Author:		NUM TOOLS		d
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Module: CHECK_PV.XLA		%SP220 (01)	Page	2

%M56.W = 1

01 Label:

```
03 Label:
                   Step: Verify pv
                                      %M56.W
                                                                           Inizio decodifica Area di Scambio
                                                 = 10
   Tab_pm[M1518] == 164
                                                                                                             Verify_pv = 11
        __]>[__
                                                                                                                 —(T)—
    V5000.L[M1518.W] == 0xa4
                                                                                                               M56.W = 0xb
    Tab_pm[M1518] == 999
                                                                                                                M170 ok
                                                                                                                               lettura valore 170
         __]>[__
                                                                                                                 — (R) –
    %V5000.L[%M1518.W] == 0x3e7
                                                                                                                %V4030.3
                                                                                                               Step_verify
                                                                                                                                fine posizionamento step VERIFIC
                                                                                                                 — (R)—
                                                                                                                %V4030.6
                                                                                                                Raz_icla
                                                                                                                               Reset a fine posizionamento moto
                                                                                                                 — (S) —
                                                                                                                %V4031.2
                                                                                            Emer_move = 0
                                                                                                             Verify_pv = 0
                                                                                                                — (T)—
                                                                                             M46.W = 0x0
                                                                                                               %M56.W = 0x0
04 Label:
                   Step: Verify_pv %M56.W
                                                 = 10
                     Tab_pm[M1518] != 999
            (1)
                                                                                                               Alarm pgm
                                                                                                                                tentativo di posizionare una ven
                     ____]>[__
                                                                                                                 — ( ) —
             %V5000.L[%M1518.W] != 0x3e7
                                                                                                                 %V4031.5
                                                                                                             Verify_pv = 99
                                                                                                                 — (T) —
                                                                                                              %M56.W = 0x63
                                                                                                               goto(END)
                                                                                                                 — (T) –
   (1) %V5000.L[%M1518.W] != 0xa4 :
                                          Tab pm[M1518] != 164
05 Label: Q_RIT1 Step: Verify_pv
                                    %M56.W
                                                 = 11
                                                                                 Indice ventosa o piano
   M1518 = M1518 + 4
                                                                                                                    (1)
   M1518.W = M1518.W + 0x4
   (1) M1514.W = V5000.L[M1518.W] : M1514 = Tab pm[M1518]
06 Label:
                   Step: Verify pv
                                      %M56.W
                                                 = 11
                                                                                     Indice Motore
   M1518 = M1518 + 4
                                                                                                                    (1)
        — т —
   M1518.W = M1518.W + 0x4
   (1) M1512.W = (V5000.L[M1518.W] - 0x1) * 0x10 : M1512 = (Tab_pm[M1518] - 1) * 16
                         Author:
                                                                                                                                    NUM TOOLS
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                                                                                                                                            Page
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                         Module: CHECK_PV.XLA
                                                                                                                                %SP220 (03)
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```
07 Label:
                Step: Verify_pv %M56.W = 11
                                                                           Indice Quota comandata
                                                                                                           (1)
   (1) %M1518.W = %M1518.W + 0x4 : M1518 = M1518 + 4
08 Label: Step: Verify_pv %M56.W = 11
     Index_1 = 10
                     Index_2 = 0
                                                                                                      Index_3 = 0
       — т ——
                      — т —
                                                                                                        — (T)—
     M1100.W = 0xa
                  M1102.W = 0x0
                                                                                                      M1104.W = 0x0
09 Label: FASE11 Step: Verify_pv %M56.W = 11
                                                                        Predisposizione start Syncro
   M1514 == Index_1
                                                                                                           (1)
        __] > [ __
                                                                                                          -(S)—
   %M1514.W == %M1100.W
                                                                                                 Sincro_10_[Index_3]
                                                                                                     ——(S)—
                                                                                                    %V4500.3[%M1104.W]
                                                                                                                      Predisposizione start motori
                                                                                                        Move_ok
                                                                                                        — (S)—
                                                                                                       %V4030.0
                                                                                                     goto(FASE11A)
                                                                                                      —— (T)—
   (1) %V7010.3[%M1512.W] : P_syncro_1[M1512]
10 Label:
                  Step: Verify_pv %M56.W = 11
                                                                                                      Index_1 += 1
                                                                                                       —— (T)——
                                                                                                     %M1100.W += 0x1
                                                                                                      Index 2 += 1
                                                                                                      ____(T)___
                                                                                                     %M1102.W += 0x1
                                                                                                      Index_3 += 1
                                                                                                       —— (T)——
                                                                                                     %M1104.W += 0x1
```

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```
Index_1 > 126
                                                                                                            Alarm_pgm
        ___]>[___
                                                                                                              — ( ) —
     %M1100.W > 0x7e
                                                                                                             %V4031.5
                                                                                                          Verify_pv = 99
                                                                                                            —— (T)—
                                                                                                           M56.W = 0x63
     Index 2 < 7
                                                                                                           goto(FASE11)
      ____]>[___
                                                                                                            —— (Т)—
     %M1102.W < 0x7
     Index_2 == 7
                                                                         Index_2 = 0
                                                                                          Index_1 += 3
      _____1>[ ____
                                                                           — т —
                                                                                          — т —
     %M1102.W == 0x7
                                                                         M1102.W = 0x0
                                                                                         %M1100.W += 0x3
12 Label: FASE11A Step: Verify pv %M56.W = 11
     Index_1 = 10
                   Index_2 = 0
                                                                                                           Index_8 = 0
        — т ——
                       — т —
                                                                                                             — (T)—
     M1100.W = 0xa
                   M1102.W = 0x0
                                                                                                           M110e.W = 0x0
13 Label: FASE11B Step: Verify_pv %M56.W = 11
    M1514 == Index_1
                                                                                                                 (1)
        ___]>[___
                                                                                                               —(T)—
    %M1514.W == %M1100.W
                                                                                                          goto(FASE11C)
                                                                                                           —— (T)—
                                                                                                           Index_1 += 1
                                                                                                             —— (T)——
                                                                                                          %M1100.W += 0x1
                                                                                                           Index_2 += 1
                                                                                                             —— (T)——
                                                                                                          %M1102.W += 0x1
                                                                                                           Index_8 += 4
                                                                                                              — (T)—
                                                                                                          M110e.W += 0x4
```

Author:		NUM TOOLS		
Company:		NOM	1001	DD CD
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Module: CHECK_PV.XLA		%SP220 (11)	Page	5

tentativo di posizionare una ven

(1) %V7012.L[%M1512.W] = %V5000.L[%M1518.W] : Q_prog_1[M1512] = Tab_pm[M1518]

11 Label: Step: Verify pv %M56.W = 11

```
14 Label: Step: Verify_pv %M56.W = 11
     Index_1 > 126
                                                                                                    Alarm_pgm
                                                                                                                  tentativo di posizionare una ven
      ____]>[___
                                                                                                     — ( ) —
     M1100.W > 0x7e
                                                                                                    %V4031.5
                                                                                                  Verify_pv = 99
                                                                                                   —— (T)—
                                                                                                   M56.W = 0x63
     Index 2 < 7
                                                                                                  goto(FASE11B)
      ____]>[___
                                                                                                   —— (T)—
     %M1102.W < 0x7
     Index_2 == 7
                                                                    Index_2 = 0
                                                                                   Index_1 += 3
     ____]>[ ____
                                                                    — т —
                                                                                   — т —
     %M1102.W == 0x7
                                                                   M1102.W = 0x0 M1100.W += 0x3
15 Label: FASE11C Step: Verify pv %M56.W = 11
                                                                        Indice velocità
                                                                                                        (1)
   (1) M1518.W = M1518.W + 0x4 : M1518 = M1518 + 4
16 Label:
           Step: Verify pv %M56.W = 11
                                                                        Assegnazione Velocità
                                                                                                        (1)
   (1) %V7016.W[%M1512.W] = %V4400.L : Feed_1[M1512] = Velocita
               Step: Verify_pv %M56.W = 11
17 Label:
                                                                           Verifica indice
                                                                                                        (1)
   (1) %M1518.W = %M1518.W + 0x4 : M1518 = M1518 + 4
```

Author:		NTTM	TOOL	C
Company:		NOM	1001	Б
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Module: CHECK_PV.XLA		%SP220 (14)	Page	6

```
Verifica indice
18 Label:
                   Step: Verify pv
                                    %M56.W = 11
   Tab_pm[M1518] == 164
                                                                                                              goto(Q_RIT1)
        ___]>[___
                                                                                                                 — (T) –
    %V5000.L[%M1518.W] == 0xa4
   Tab_pm[M1518] == 170
                                                                         Index 170 = M1518 + 4
                                                                                                                M170 ok
                                                                                                                               lettura valore 170
        ___]>[___
                                                                             — т —
                                                                                                                ___(S)_
    %V5000.L[%M1518.W] == 0xaa
                                                                   V402c.W = M1518.W + 0x4
                                                                                                                %V4030.3
                                                                                                             Verify_pv = 12
                                                                                                               —— (T)—
                                                                                                              %M56.W = 0xc
           (1)
                     Tab_pm[M1518] != 170
                                                                                                               Alarm pgm
                                                                                                                               tentativo di posizionare una ven
                     ____]>[___
                                                                                                                ___( ) _
              %V5000.L[%M1518.W] != 0xaa
                                                                                                                %V4031.5
                                                                                                             Verify_pv = 99
                                                                                                               —— (T)—
                                                                                                              M56.W = 0x63
                                                                                                               goto(END)
                                                                                                                ____(T)___
   (1) %V5000.L[%M1518.W] != 0xa4 : Tab_pm[M1518] != 164
19 Label:
                   Step: Verify_pv %M56.W = 12
                                                                                                              Cil std = 0
                                                                                                                 — (T)—
                                                                                                              205200.B = 0x0
                                                                                                              Cil add = 0
                                                                                                                 — (T)—
                                                                                                              Q5400.B = 0x0
20 Label:
                   Step: Verify_pv %M56.W
                                                = 12
                                                            Start asse n.... se predisposto e posiz. pistone a quota corr.
           (1)
                     Vent_pdl_add == 0
                                                                                                               Start_move
                                                                                                                               start movimentazione motori
                       ____]>[__
                                                                                                                — (S) —
                      %I5400.B == 0x0
                                                                                                                %V4030.7
                                                                                                             Verify pv = 13
                                                                                                                — (T)—
                                                                                                              M56.W = 0xd
                                                                                                               goto(END)
                                                                                                                 —(T)-
   (1) %I5200.B == 0x0 : Vent_pdl_std == 0
                         Author:
                                                                                                                                   NUM TOOLS
                         Company:
```

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Project: 1040_78.mch

Module: CHECK_PV.XLA

TITRE

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Date

21 Label: Step: Verify_pv %M56.W = 13

End_move	End_move	movimentazione motori eseguita
] [———	(R)-	
%V4031.0	\$V4031.0	
	Sb_pdl_ab	sblocco pdl area AB
	(R)	
	%Q5201.6	
	Sb_pdl_cd	sblocco pdl area CD
	(R)	
	%Q5201.7	
	15	
	Verify_pv = 20	
	%M56.W = 0x14	
	goto(END)	
	— (T)	

22 Label: Step: Verify_pv %M56.W = 20

$Index_2 = 0$	Verify_pv = 21
%M1102.W = 0x0	%M56.W = 0x15
	goto(END)
	——————————————————————————————————————

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Company:		NOM	TOOL	,
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23 Label: %M56.W Step: Verify_pv = 21 Sincro_11_ Cil_pdl_1 Abil. cilindro aggancio ventose —] [— —(S)— %V4501.3 %Q5200.0 Sincro_12_ %V4502.3 Sincro_13_ _][_ %V4503.3 Sincro_14_ — 1 [— %V4504.3 Sincro_15_ %V4505.3 Sincro_16_ —][— %V4506.3 **24** Label: Step: Verify_pv %M56.W = 21 Cil_pdl_2 Sincro_21_ Abil. cilindro aggancio ventose —(S)-%Q5200.1 %V4508.3

Author:		NUM	т∩∩т	· C
Company:		NOM	1001	JD OIL
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25 Label: Step: Verify_pv %M56.W = **21**

Sincro_31_	Cil_pdl_3	Abil. cilindro aggancio ventose
%V450f.3	(S) %Q5200.2	
Sincro_32_] [
Sincro_33_] [%V4511.3		
Sincro_34_][%V4512.3		
Sincro_35_ 		
Sincro_36_ 		

26 Label: Step: Verify_pv %M56.W = 21

Sincro_41_	$\mathtt{Cil}_\mathtt{pdl}_4$	Abil. cilindro aggancio ventose
%V4516.3	(S) %Q5200.3	
Sincro_42_		
%V4517.3		
Sincro_43_		
%V4518.3		
Sincro_44_		
%V4519.3		
Sincro_45_		
%V451a.3		
Sincro_46_		
%V451b.3		

Author:		NUM	т∩∩т	d
Company:		NOM	1001	19
Project: 1040_78.mch	TITRE		Date	28-02-2018
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27 Label: Step: Verify_pv %M56.W = 21

Sincro_51_ Cil_pdl_5 —][— —(S)— %V451d.3 %Q5200.4 Sincro_52_ —] [— %V451e.3 Sincro_53_ _][_ %V451f.3 Sincro_54_ —] [— %V4520.3 Sincro_55_ — 1 [— %V4521.3 Sincro_56_ —] [— %V4522.3

Abil. cilindro aggancio ventose

28 Label: Step: Verify_pv %M56.W = 21

Sincro_61_ Cil_pdl_6 Abil. cilindro aggancio ventose —(S)-%Q5200.5 %V4524.3 Sincro_62_ —][— %V4525.3 Sincro_63_ —][— %V4526.3 Sincro_64_ _][_ %V4527.3 Sincro_65_ %V4528.3 Sincro_66_ %V4529.3

Author:		NTTM	TOOLS	
Company:		NOM	тоопр	
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1 [(S)—	
%V4532.3	%Q5200.7	
Ventosa82.3		
%V4533.3		
Ventosa83.3		
%V4534.3		
Ventosa84.3		
%V4535.3		
Ventosa85.3		
L [
%V4536.3		
Ventosa86.3		
%V4537.3		

Author:		NUM	TOOT	· G
Company:		INOM	1001	10
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: CHECK_PV.XLA		%SP220 (29)	Page	12



Author:		NUM	т∩∩т	- c
Company:		INOM	1001	10
Project: 1040_78.mch	TITRE		Date	28-02-2018
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%V4545.3



Author:		NTTM	TOOLS	
Company:		NOM	тоопр	
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Vent_pdl_1	Vent_pd1_2	Vent_pdl_3	Vent_pdl_4	Vent_pdl_5	Vent_pdl_6	Input_1_6	input pistoncini ventose: piani
%I5200.0	%I5200.1	%I5200.2	%I5200.3	%I5200.4	%I5200.5	%V4033.1	
Cil_pdl_1	Cil_pdl_2	Cil_pdl_3	Cil_pdl_4	Cil_pdl_5	Cil_pdl_6		
]/[%Q5200.0]/[%Q5200.1]/[%Q5200.2]/[%Q5200.3]/[]/[——— %Q5200.5		
Vent_pdl_7	Vent_pd1_8	Vent_pdl_9	Vent_pdl_10	Vent_pdl_11	Vent_pd1_12	Input_7_12	input pistoncini ventose: piani
%I5200.6	%I5200.7] [%I5400.0	%I5400.1	%I5400.2	%I5400.3	%V4033.2	
Cil_pdl_7	Cil_pdl_8	Cil_pdl_9	Cil_pdl_10	Cil_pdl_11	Cil_pdl_12		
%Q5200.6	%Q5200.7	%Q5400.0	%Q5400.1	%Q5400.2	%Q5400.3		
							3
36 Label:	Step: Verify_pv	%M56.W = 21		Msg: eseguire tar	atura piani e ven	tose	
						App_msg129	Appoggio MSG 129
						(S) %V4033.5	
						Raz_icla	Reset a fine posizionamento moto
						/	_
						(R) %V4031.2	_
 37 Label:	Step: Verify_pv	%M56.W = 21		Verifica ventos	a agganciata per	%V4031.2	
Input_1_6	Input_7_12	%M56.W = 21	TON_79(1000)	Verifica ventos	Cil_std = 0	%V4031.2 ls Cil_add = 0	
		%M56.W = 21	TON_79(1000)	Verifica ventos		%V4031.2	
Input_1_6	Input_7_12	%M56.W = 21		Verifica ventos	Cil_std = 0 T = 0x0 No.B = 0x0 Index_6 = 0	%V4031.2 1s Cil_add = 0 (T) %Q5400.B = 0x0 Verify_pv = 22	
Input_1_6	Input_7_12	%M56.W = 21		Verifica ventos	Cil_std = 0 T = 0x0	%V4031.2 1s Cil_add = 0 (T) %Q5400.B = 0x0	
Input_1_6	Input_7_12	%M56.W = 21		Verifica ventos	Cil_std = 0 T %Q5200.B = 0x0 Index_6 = 0 T	%V4031.2 1s Cil_add = 0 (T) %Q5400.B = 0x0 Verify_pv = 22 (T) %M56.W = 0x16 goto(END)	
Input_1_6	Input_7_12	%M56.W = 21		Verifica ventos	Cil_std = 0 T %Q5200.B = 0x0 Index_6 = 0 T	%V4031.2 1s Cil_add = 0 (T) %Q5400.B = 0x0 Verify_pv = 22 (T) %M56.W = 0x16	
Input_1_6	Input_7_12] [Verifica ventos	Cil_std = 0 T %Q5200.B = 0x0 Index_6 = 0 T	%V4031.2 1s Cil_add = 0 (T) %Q5400.B = 0x0 Verify_pv = 22 (T) %M56.W = 0x16 goto(END)	
Input_1_6][Input_7_12] [Verifica ventos	Cil_std = 0 T %Q5200.B = 0x0 Index_6 = 0 T	%V4031.2 1s Cil_add = 0 (T) %Q5400.B = 0x0 Verify_pv = 22 (T) %M56.W = 0x16 goto(END)	
Input_1_6][Input_7_12] [Verifica ventos	Cil_std = 0 T %Q5200.B = 0x0 Index_6 = 0 T	%V4031.2 1s Cil_add = 0 (T) %Q5400.B = 0x0 Verify_pv = 22 (T) %M56.W = 0x16 goto(END)	

Author:		NUM	TOO	T.C
Company:		NOM	100	ПО
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Module: CHECK_PV.XLA		%SP220 (35)	Page	15

```
38 Label: RESET
                   Step: Verify_pv
                                    %M56.W
                                               = 22
     Index_6 < 84
                                                                                                                 (1)
        __]>[__
                                                                                                               —(R)—
     %M110a.W < 0x54
                                                                                                           Index_6 += 1
                                                                                                             —— (T) —
                                                                                                           %M110a.W += 0x1
                                                                                                           goto(RESET)
                                                                                                           —— (T)—
                                                                                                          Verify_pv = 23
                                                                                                              — (T)—
                                                                                                           M56.W = 0x17
                                                                                                             goto(END)
                                                                                                             — (T)—
   (1) %V4500.3[%M110a.W] :
                                 Sincro_10_[Index_6]
39 Label:
                   Step: Verify_pv
                                   %M56.W
                                               = 23
                                                                                                             Input_1_6
                                                                                                                            input pistoncini ventose: piani
                                                                                                              —(R)-
                                                                                                             %V4033.1
                                                                                                            Input_7_12
                                                                                                                            input pistoncini ventose: piani
                                                                                                              — (R)—
                                                                                                             %V4033.2
                                                                                                          Verify_pv = 24
                                                                                                              — (T)—
                                                                                                           %M56.W = 0x18
                                                                                                             goto(END)
                                                                                                             —— (T)—
40 Label:
                  Step: Verify_pv %M56.W = 24
           (1)
                    Vent_pdl_add == 0
                                                         TON_78(500)
                                                                                                          Verify_pv = 25
                       ____]>[___
                                                                                                             — (T)—
                      %I5400.B == 0x0
                                                                                                           M56.W = 0x19
                                                                                                             goto(END)
                                                                                                             — (T) —
   (1) %I5200.B == 0x0 : Vent_pdl_std == 0
   [T] TON_78(0x1f4) : TON_78(500)
                        Author:
                                                                                                                                NUM TOOLS
                        Company:
                        Project: 1040_78.mch
                                                                                                                                         Date
                                                                                                                                                    28-02-2018
                                                                                    TITRE
```

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Module: CHECK_PV.XLA

41 Label: Step: Verify_pv %M56.W = 25 Decodifica Area di Scambio

Tab_pm[M1518] == 170 Step_verify fine posizionamento step VERIFIC ---(S)----%V4030.6 %V5000.L[%M1518.W] == 0xaa $Verify_pv = 0$ - (T) - %M56.W = 0x0 goto(END) ——(T)— Alarm_pgm Tab_pm[M1518] != 170 tentativo di posizionare una ven ___] > [__ — () – %V5000.L[%M1518.W] != 0xaa %V4031.5 Verify_pv = 99 — (T) – M56.W = 0x63

42 Label: END Step:

Author:		NITIM	TOOLS	1
Company:		MOM	TOOL	•
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: CHECK_PV.XLA		%SP220 (41)	Page	17

```
INIT
        .XLA %INI
MAIN
       .XLA %TS0
        .XLA %TS1
TS1
TS2
        .XLA %TS2
TS3
        .XLA %TS3
TS4
        .XLA %TS4
TF0
       .XLA %TF0
PUP_MACH.XLA %SP0
XILOG_CN.XLA %SP1
PROGM .XLA %SP2
CONS_CN .XLA %SP3
COM_ASSI.XLA %SP4
GEST_EM .XLA %SP5
TEST_M .XLA %SP6
800 NEST.XSY
TR12_POS.XLA %SP133
DIAGNOST.XLA %SP10
TEST_R .XLA %SP12
P_VUOTO .XLA %SP16
P_NESTIN.XLA %SP18
MORSETTI.XLA %SP19
VENTOSE .XLA %SP20
BATTUTE .XLA %SP21
RULLIERE.XLA %SP22
LUB_AUTO.XLA %SP23
LUB_MAN .XLA %SP25
VIS_MSG .XLA %SP30
DECODGR1.XLA %SP31
CUFFIA .XLA %SP199
PS_PIGNA.XLA %SP40
MANDRINI.XLA %SP45
FRESA D .XLA %SP46
RIAGGANC.XLA %SP49
G_INVERT.XLA %SP50
ELMAND_1.XLA %SP51
TR12_GES.XLA %SP134
LISTELLI.XLA %SP126
PUFFER .XLA %SP125
800
       .XPJ
TENT_PV .XLA %SP222
CONFIG .XLA %SP100
JOG_ICLA.XLA %SP221
TR24_POS.XLA %SP130
TR24_GES.XLA %SP131
TR_WRITE.XLA %SP132
CHECK PV.XLA %SP220
SETUP_PV.XLA %SP219
800
        .XSY
REM_PV .XLA %SP218
README .XTX
TEST_PV .XLA %SP217
MOVE_PV .XLA %SP216
MOVEICLA.XLA %SP215
START_PV.XLA %SP214
EMER_PV .XLA %SP213
BIT_ICLA.XLA %SP212
```

RAZ_ICLA.XLA %SP211 RES_PV .XLA %SP210 ICLA_232.XCX ICLA_232.INI

Author:		NITIM	TOOLS	1
Company:		NOM	тоопа	•
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: 800.XPJ			Page	1

00 Label:

Step:

call files piano motorizzato e funzuione C

211) sp(212)	sp(213)	sp(214)	sp(215)
xd3) sp(0xd4)	sp(0xd5)	sp(0xd6)	sp(0xd7)
217) sp(218)	sp(219)	sp(220)	sp(221)
xd9) sp(0xda)	sp(0xdb)	sp(0xdc)	sp(0xdd)
			sp(222)
			(T) sp(0xde)
		Sel_man_aut	Man_aut
]/[%I4101.4	%Q4201.7
			Sb_pdl_ab
			%Q5201.6
			Sb_pdl_cd
			(S)
	T T T (xd3) sp(0xd4) 217) sp(218) T T T	T T T T T T T T T T T T T T T T T T T	T T T T T T T T T T T T T T T T T T T

Piano di lavoro manuale / automa

sblocco pdl area AB

sblocco pdl area CD

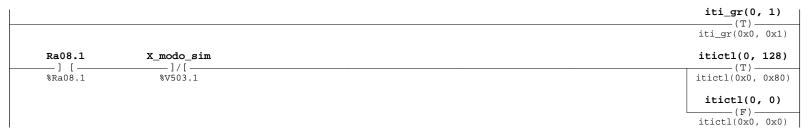
01 Label: Step:

sp(49)	sp(2)	sp(50)	sp(3)	sp(5)		sp(0)
sp(0x31)	sp(0x2)	sp(0x32)	sp(0x3)	sp(0x5)		sp(0x0)
				sp(199)	sp(31)	sp(132)
				T sp(0xc7)	T sp(0x1f)	(T) sp(0x84)
E30037 == 24					sp(130)	sp(131)
]>[%Rb14.L == 0x18					T sp(0x82)	sp(0x83)
E30037 == 12					sp(133)	sp(134)
]>[%Rb14.L == 0xc					T sp(0x85)	sp(0x86)
Evolution						E20000
] [() %W11.0

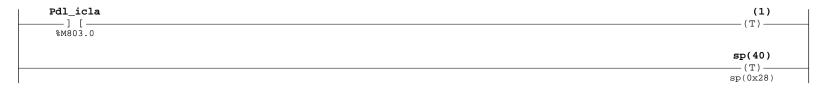
Tirante R1

Author:		NUM	TOOI	ם
Company:		NOM	1001	19
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Module: MAIN.XLA		%TS0 (00)	Page	1

02 Label: Step: Lettura ingresso veloce per tastatore



03 Label: Step:

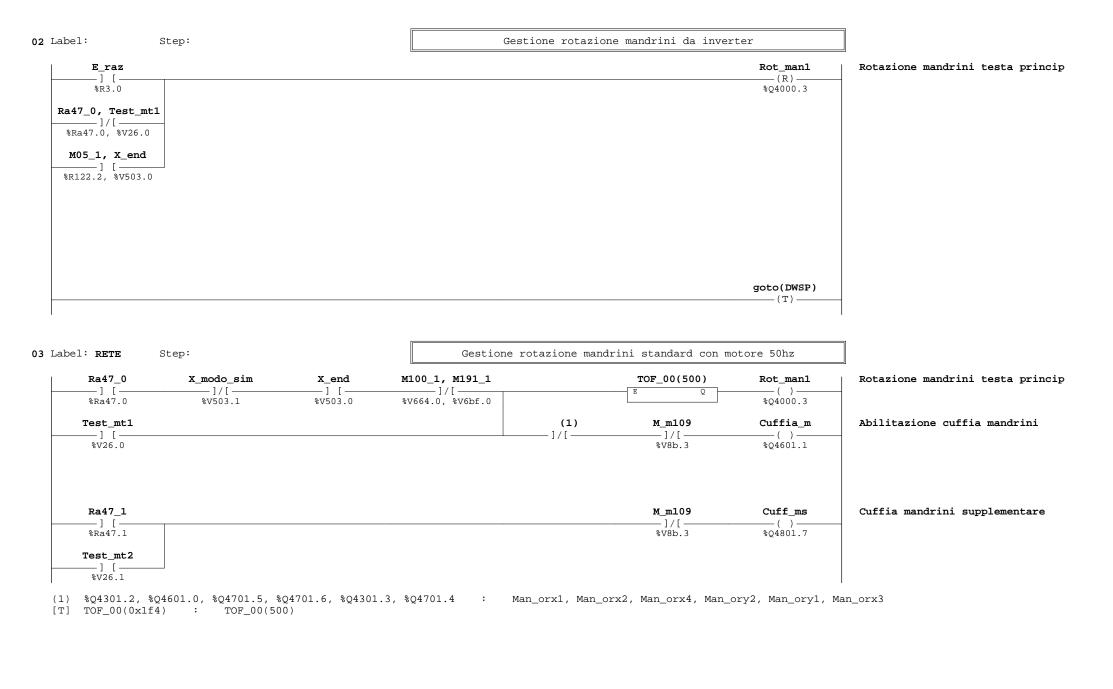


(1) V7a22.W = exec(V7806.W, V7000.&) : Rel_cod = exec(P_funzc, V7000.&)

Author:		NTTM	TOOLS	ı
Company:		HOH	тоопр	
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00 Label: Step: Ra47_0 X_end Asp_2 EV aspirazione 2 (X5) _][_ %Q5301.7 %Ra47.0 %V503.0 As_2 Abilitazione aspirazione central %Q4500.6 Mand inv goto(RETE) —] / [– — (T)-%M802.2 Gestione rotazione mandrini da inverter 01 Label: Step: App_freq1_0, Emer_inv1 Ra47_0, X_end (1) Res_sel1 Rot_man1 Rotazione mandrini testa princip —][— —] [— —(S)-%Ra47.0, %V503.0 %V22.6, %I4001.0 %04101.3 %04000.3 $Test_mt1$ ___] [_ %V26.0 M m109 Rot_man1 Man_orx1, Man_orx2, Man_orx4, Man_ory2, Man_ory1, Man_orx3 Cuffia m Abilitazione cuffia mandrini —] / [— —] [— — () – %V8b.3 %Q4000.3 %Q4301.2, %Q4601.0, %Q4701.5, %Q4701.6, %Q4301.3, %Q4701.4 %Q4601.1 Man_suppl1 & 255 != 0 Cuff_ms Cuffia mandrini supplementare ____]>[___ %Q4800.B & 0xff != 0x0 %04801.7 Man_suppl2 & 7 != 0 ___]>[___ %Q4801.B & 0x7 != 0x0 (1) %V503.1, %R122.2 : X_modo_sim, M05_1

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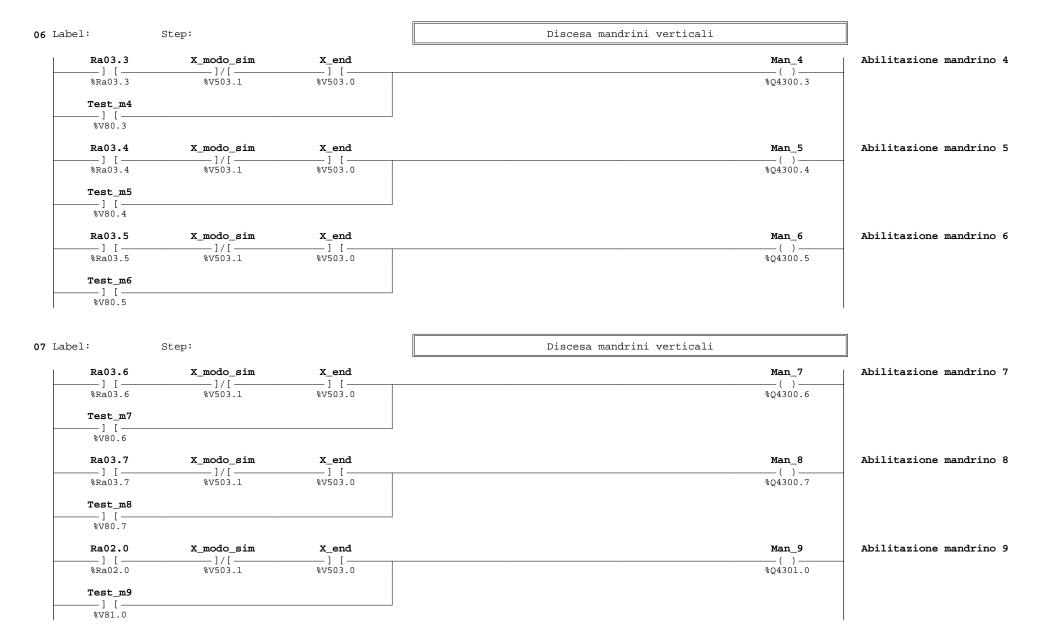


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04 Label: DWSP Step:

Evolution	Ra47_0	X_modo_sim	X_end	Icil_basso	Gruppo_on	EV discesa gruppo mandrin
]/[%M803.1	%Ra47.0		~~~] [~~~~~ %V503.0	%I4500.4	%Q4501.6	
	E10023	Modo_xil == 4			Gruppo_off	EV salita gruppo mandrini
] [%Rf.7	"> [(R)————————————————————————————————————	
	Test_mt1, Pez_sbl				Gruppo_off	EV salita gruppo mandrini
	7.0, %V26.0, %Vf.6,				%Q4501.7	_
					Gruppo_on	EV discesa gruppo mandrin
					(R)——— %Q4501.6	-
:1:	Step:			Discesa mandrini ver	rticali	
Ra03.0	X_modo_sim	X_end			Man_1	Abilitazione mandrino 1
] [%Ra03.0]/[%V503.1	%V503.0			%Q4300.0	
Test_m1						
] [%V80.0						
Ra03.1	X_modo_sim	X_end			Man_2	Abilitazione mandrino 2
] [%Ra03.1]/[%V503.1	%V503.0			%Q4300.1	
Test_m2						
] [%V80.1						
Ra03.2	X_modo_sim	X_end			Man_3	Abilitazione mandrino 3
] [%Ra03.2					*04300.2	-
					~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
Test_m3						

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Company:		NOM	1001	15
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el:	Step:		Discesa mandrini verticali	
Ra02.1	X_modo_sim	X_end	Man	
%Ra02.1	%V503.1	%V503.0	%Q4301	'
Test_m10				
] [%V81.1				
Ra02.2	X_modo_sim	X_end	Man_	
] [%Ra02.2		*V503.0	() %Q4600	
Test_m11				
] [%V81.2				
Ra02.3	X_modo_sim	X_end	Man_i	12 Abilitazione mandrino 12
] [%Ra02.3]/[%V503.1		() %Q4600	' I
			~	
Toot mil				
Test_m12				
] [%V81.3	Step:		Discesa mandrini verticali	
] [X_modo_sim	X_end	Man_:	
][%V81.3	-	X_end] [%V503.0) ———
Ra02.4 Ra02.4 Test_m13	X_modo_sim]/[Man_:) ———
Ra02.4 Ra02.4 Ra02.4	X_modo_sim]/[Man_:) ———
Ra02.4] [Ra02.4] [Ra02.4 Test_m13] [V81.4 Ra02.5	X_modo_sim 		Man_:	0.2
Ra02.4	X_modo_sim 	*V503.0	Man_() %Q4600	0.2 Abilitazione mandrino 14
Ra02.4	X_modo_sim 	X_end	Man_: () %Q4600 Man_: ()	0.2 Abilitazione mandrino 14
Ra02.4	X_modo_sim 	X_end	Man_: () %Q4600 Man_: ()	0.2 Abilitazione mandrino 14
Ra02.4 Ra02.4 Ra02.4 Ra02.4 Ra02.4 Ra02.5 Ra02.5 Ra02.5 Ra02.5 Ra02.6	X_modo_sim 	X_end	Man_: () %Q4600 Man_: ()	Abilitazione mandrino 14
Ra02.4 Ra02.4 Ra02.4 Ra02.4 Ra02.4 Ra02.5 Ra02.5 Ra02.5 Ra02.5 Ra02.5	X_modo_sim 	X_end][Man_() %Q4600 Man_() %Q4600	Abilitazione mandrino 14 0.3 Abilitazione mandrino 15
Ra02.4 Ra02.4 Ra02.4 Test_m13 [X_modo_sim	X_end] [%V503.0	Man_: Q4600 Man_: () %Q4600	Abilitazione mandrino 14 0.3 Abilitazione mandrino 15

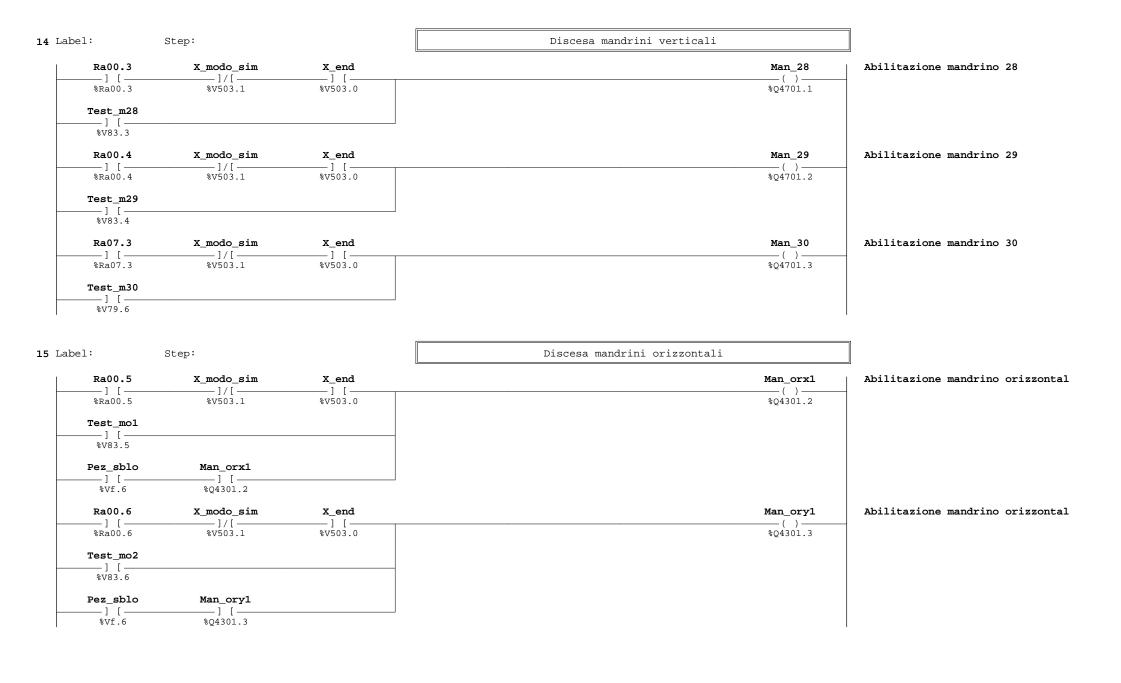
Author:		NUM	TOOLS	2
Company:		NOM	TOOLS	•
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el:	Step:		Discesa mandrini verticali		
Ra02.7	X_modo_sim	X_end		Man_16	Abilitazione mandrino 16
%Ra02.7	%V503.1	%V503.0		%Q4600.5	
Test_m16					
] [%V81.7					
Ra01.0	X_modo_sim	X_end		Man_17	Abilitazione mandrino 17
] [%Ra01.0		*V503.0		() %Q4600.6	_
Test_m17					
] [%V82.0					
Ra01.1	X_modo_sim	X_end		Man_18	Abilitazione mandrino 18
] [%Ra01.1]/[%V503.1			() %Q4600.7	
Test m18					
Test_m18] [%V82.1					
] <u> </u>					
} [Step:		Discesa mandrini verticali		
%V82.1	X_modo_sim	X_end	Discesa mandrini verticali	Man_19	Abilitazione mandrino 19
] [%v82.1 ≥1:	-	X_end] [Discesa mandrini verticali	Man_19 ()_ %Q4700.0	Abilitazione mandrino 19
Ra07.4 3 1 2 2 2 2 2 2 2 2 2	X_modo_sim]/[Discesa mandrini verticali	()	Abilitazione mandrino 19
Ra07.4	X_modo_sim]/[Discesa mandrini verticali	()	Abilitazione mandrino 19
Ra07.4	X_modo_sim]/[%V503.1 X_modo_sim] [%v503.0 X_end	Discesa mandrini verticali	()	Abilitazione mandrino 19 Abilitazione mandrino 20
Ra07.4 Ra07.4 Ra07.4 Test_m19 V82.2	X_modo_sim]/[%V503.1	*v503.0	Discesa mandrini verticali	() %Q4700.0	
Ra07.4 Ra07.4 Ra07.4 Test_m19	X_modo_sim 	X_end	Discesa mandrini verticali	()	
Ra07.4 Sel: Ra07.4 Sel: Ra07.4 Test_m19 Sel: Ra01.3 Sel: Ra01.3	X_modo_sim 	X_end	Discesa mandrini verticali	()	
Ra07.4	X_modo_sim	X_end	Discesa mandrini verticali	()	Abilitazione mandrino 20
Ra07.4	X_modo_sim 	X_end] [Discesa mandrini verticali	()	Abilitazione mandrino 20
Ra07.4 Ra07.4 Sanon Sano	X_modo_sim	X_end	Discesa mandrini verticali	Man_20 %Q4700.1	Abilitazione mandrino 19 Abilitazione mandrino 20 Abilitazione mandrino 21

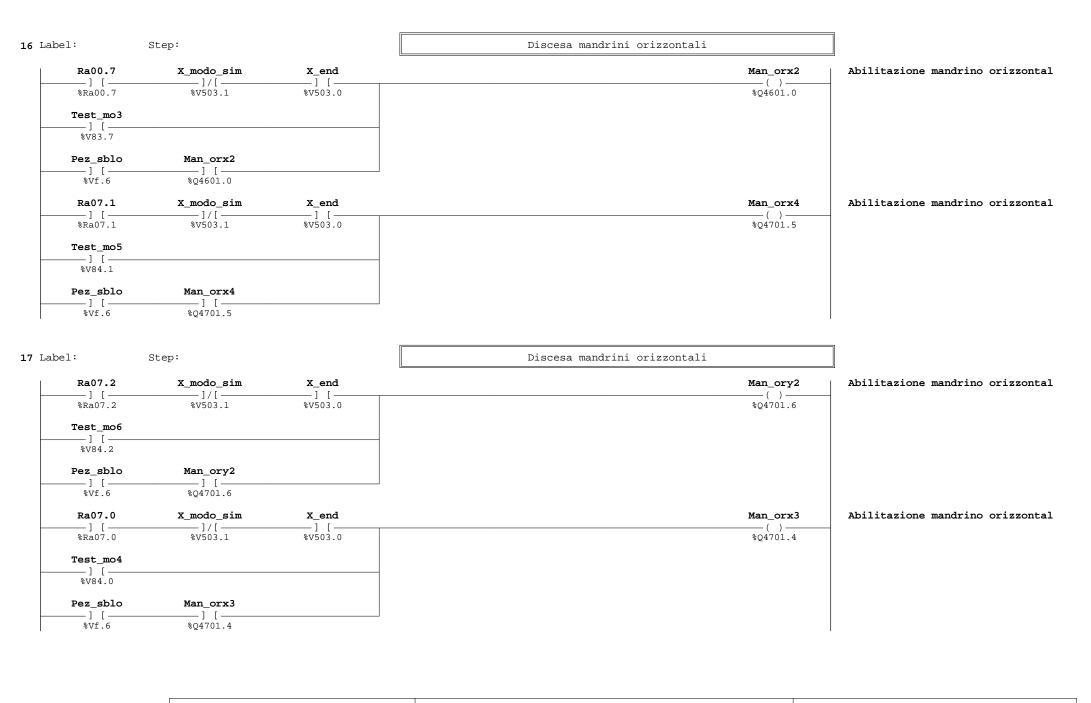
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el:	Step:		Discesa mandrini verticali	
Ra01.5	X_modo_sim	X_end	Man_22	Abilitazione mandrino 22
%Ra01.5	%V503.1	%V503.0	%Q4700.3	
Test_m22				
%V82.5				
Ra01.6	X_modo_sim	X_end	Man_23	Abilitazione mandrino 23
%Ra01.6	%V503.1	%V503.0	%Q4700.4	
Test_m23				
] [%V82.6				
Ra01.7	X_modo_sim	X_end	Man_24	Abilitazione mandrino 24
] [%Ra01.7		%V503.0	%Q4700.5	
Test m24				
TCBC_mz-T				
] <u> </u>				
] [%V82.7	Step:		Discesa mandrini verticali	
] [X_modo_sim	X_end	Man_25	Abilitazione mandrino 25
][%v82.7		X_end][%V503.0		Abilitazione mandrino 25
Ra00.0 Ra00.0 Ra00.0 Test_m25	X_modo_sim		Man_25	Abilitazione mandrino 25
Ra00.0	X_modo_sim		Man_25	Abilitazione mandrino 25
Ra00.0 Ra00.0 Ra00.0 Test_m25	X_modo_sim] [Man_25 () %Q4700.6	Abilitazione mandrino 25 Abilitazione mandrino 26
Ra00.0 Ra00.0 Ra00.0 Test_m25 V83.0	X_modo_sim] [Man_25 () %Q4700.6	
Ra00.0 Ra00.0 SRa00.0 Test_m25 SV83.0 Ra00.1 Ra00.1 Test_m26	X_modo_sim 	X_end	Man_25() %Q4700.6	
Ra00.0	X_modo_sim 	X_end	Man_25() %Q4700.6	
Ra00.0	X_modo_sim 	X_end][Man_25() %Q4700.6 Man_26()() %Q4700.7	
Ra00.0 —][———————————————————————————————————	X_modo_sim 	X_end 	Man_25() %Q4700.6 Man_26()	Abilitazione mandrino 26
Ra00.0 Ra00.0 [<pre>X_modo_sim</pre>	x_end] [%V503.0	Man_25()	Abilitazione mandrino 26

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el:	Step:		Discesa mandrini verticali supplementari	
Ra05.3	X_modo_sim	X_end	Man_s_1	Abilitazione mandrino supplem
%Ra05.3	%V503.1	%V503.0	%Q4800.0	
Test_ms1				
%V7a.0		<u> </u>		
Ra05.4	X_modo_sim	X_end	Man_s_2	Abilitazione mandrino supplem
*Ra05.4	%V503.1	%V503.0	%Q4800.1	
Test_ms2				
] [%V7a.1				
Ra05.5	X_modo_sim	X_end	Man_s_3	Abilitazione mandrino supple
] [%Ra05.5]/[%V503.1	*V503.0	()	
Test_ms3				
] [%V7a.2				
] [Step:		Discesa mandrini verticali supplementari	
] [X_modo_sim	X_end	Man_s_4	Abilitazione mandrino supple
] [X_modo_sim	_	Man_s_4	Abilitazione mandrino supple
] [X_modo_sim		Man_s_4	Abilitazione mandrino supple
Ra05.6 Ra05.6 Ra05.6 Test_ms4 [%V7a.3	X_modo_sim]/[%V503.1		Man_s_4	
Ra05.6 Ra05.6 Ra05.6 Test_ms4	X_modo_sim] [%V503.0 X_end	Man_s_4	
Ra05.6 Ra05.6 Ra05.6 Test_ms4] [%V7a.3 Ra05.7	X_modo_sim]/[%V503.1		Man_s_4 () %Q4800.3 Man_s_5	
Ra05.6 Ra05.6 Ra05.6 Test_ms4] [%V7a.3 Ra05.7] [%Ra05.7	X_modo_sim] [%v503.0 x_end	Man_s_4 () %Q4800.3 Man_s_5 ()	
Ra05.6 Ra05.6 Ra05.6 Test_ms4 [%V7a.3 Ra05.7 Ra05.7	X_modo_sim] [%v503.0 x_end	Man_s_4 () %Q4800.3 Man_s_5 ()	
Ra05.6 Ra05.6 Ra05.6 Test_ms4 [%V7a.3 Ra05.7 [%Ra05.7 [%Ra05.7 Test_ms5 [%V7a.4 Ra04.0	<pre>X_modo_sim</pre>] [%v503.0 x_end	Man_s_4 () %Q4800.3 Man_s_5 ()	Abilitazione mandrino supple
Ra05.6 Ra05.6 Ra05.6 Test_ms4 W7a.3 Ra05.7 Ra05.7 Test_ms5 W7a.4	X_modo_sim 	X_end 	Man_s_4 () %Q4800.3 Man_s_5 () %Q4800.4	Abilitazione mandrino supple: Abilitazione mandrino supple: Abilitazione mandrino supple:

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20 Label:	Step:		Discesa mandrini verticali supplementari	
Ra04.1 	X_modo_sim 	X_end][Man_s_7 ()_ %Q4800.6	Abilitazione mandrino supplement
Test_ms7] [
Ra04.2	X_modo_sim 	X_end] [Man_s_8 ———————————————————————————————————	Abilitazione mandrino supplement
Test_ms8] [
Ra04.3	X_modo_sim 	X_end] [Man_s_9 () %Q4801.0	Abilitazione mandrino supplement
Test_ms9] [
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
21 Label:	Step:		Discesa mandrini verticali supplementari	
Ra04.4 	X_modo_sim 	X_end][_ %V503.0	Man_s_10 () %Q4801.1	Abilitazione mandrino supplement
Test_ms10][

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//		: MEM_MSG.xsy : Memorie %V (non ritentive dedicate a MSG)	MSG_48	%V37F.0 FREQUENZA INVERTER NON OK %V380.0 MSG ALLARME INVERTER 1
// FILE	NAME	: MEM_MSG.xsy	MSG_49	
// DESC	RIZIONE	: Memorie %V (non ritentive dedicate a MSG)	MSG_50	%V381.0 MSG ALLARME INVERTER 2
//			MSG_51	%V382.0 MSG ALLARME INVERTER 3
//		ATTENZIONE: Ouogto momorio vanno utiliggato a DIT	MSG_52	%V383.0 MSG ALLARME INVERTER 4 %V384.0 ATTESA BLOCCAGGIO PANNELLO AREA CD
//		TIMITE SYZED O SYZZED (255 Przto)	MSG_53	%V385.0 ALLARME SONDA TERMICA EM5
//		T TECHT CONO CORTUTT CIT. ON	MSG_54	%V386.0 ALLARME SONDA TERMICA EM5
//		ATTENZIONE: Queste memorie vanno utilizzate a BIT LIMITE %V350.0%V44F.0 (255 Byte) I TESTI SONO SCRITTI SUL CN FAULT DRIVE ASSI DI SETUP PROTEZIONE TERMICA MOTORI PRESSIONE ARIA INSUFFICENTE EMERGENZA MACCHINA	MSG 56	%V387.0 ALLARME SONDA TERMICA ELCII
MSG 1	%V350.0	FAULT DRIVE ASSI DI SETUP	MSG 57	%V388.0 ALLARME SONDA TERMICA EM1
MSG 2	%V351.0	PROTEZIONE TERMICA MOTORI	MSG 58	%V389.0 ALLARME SONDA TERMICA EM2
MSG_3	%V352.0	PRESSIONE ARIA INSUFFICENTE	MSG_59	%V38A.0 ALLARME SONDA TERMICA EM3
MSG_4	%V353.0	EMERGENZA MACCHINA	MSG_60	%V387.0 ALLARME SONDA TERMICA ELCU %V388.0 ALLARME SONDA TERMICA EM1 %V389.0 ALLARME SONDA TERMICA EM2 %V38A.0 ALLARME SONDA TERMICA EM3 %V38B.0 ALLARME SONDA TERMICA EM4
MSG_5	%V354.0	FAULT DRIVE ASSI BRUSHLESS	MSG_61	%V38C.0 ATTESA MAGAZZINO APERTO (stc)
MSG_6	%V355.0	FAULT DRIVE ASSE X	MSG_62	%V38D.0 ATTESA PROTEZIONI MAG. APERTA (stc)
MSG_7	%V356.0	FAULT DRIVE ASSE Y	MSG_63	%V38E.0 ATTESA MAG. CHIUSO (stc)
MSG_8	%V357.0	FAULT DRIVE ASSE Z	MSG_64	%V38F.O ATTESA PROTEZIONI MAG. CHIUSA (stc)
MSG_9	%V358.0	FAULT DRIVE ASSE A	MSG_65	%V390.0 ATTESA EL. ALTO (stc)
MSG_IU	ช∨359.U ๑๙७ฅ៱ ∩	FINE CORSA X+	MSG_66	%V391.0 ATTESA EL. POSIZIONE 1 (stc) %V392.0 ATTESA EL. POSIZIONE 2 (stc)
MSG_II	5V35A.U	FINE CORSA A-	MSG_67	%V393.0 ATTESA EL. POSIZIONE 2 (Stc)
MSG_12	%V35B.0	FINE CORSA V-	MSG 69	%V394.0 ATTESA NAVETTA ALTA (stc)
MSG 14	%V35D.0	FINE CORSA Z+	MSG 70	%V395.0 ATTESA NAVETTA BASSA (stc)
MSG 15	%V35E.0	FINE CORSA Z-	MSG 71	%V396.0 ATTESA UTENSILE BLOCCATO (stc)
MSG_16	%V35F.0	FAULT DRIVE ASSE C	MSG_72	%V397.0 ATTESA UTENSILE SBLOCCATO (stc)
MSG_17	%V360.0	FINE CORSA A-	MSG_73	%V398.0 LUBRIFICAZIONE IN CORSO
MSG_18	%V361.0	FINE CORSA A+	MSG_74	<pre>%V398.0 LUBRIFICAZIONE IN CORSO %V399.0 ERRORE LUBRIFICAZIONE %V39A.0 POMPA LUBRIFICANTE VUOTA</pre>
MSG_19	%V362.0	ATTESA MAGAZZINO OUT (rapid)	MSG_75	%V39A.0 POMPA LUBRIFICANTE VUOTA
MSG_20	%V363.0	ATTESA MAGAZZINO IN (rapid)	MSG_76	%V39B.O ANOMALIA CAMBIO UTENSILE
MSG_21	%V364.0	ATTESA MAGAZZINO DOWN (rapid)	MSG_77	*V39C.0 ELETTROMANDRINO SENZA UTENSILE
MSG_22	%V365.U	ATTESA MAGAZZINO UP (rapid)	MSG_78	\$V39D.U ERRORE CAMBIO UTENSILE
MSG_23	5V300.0	ATTECA TIMENSILE BLOCCATO (rapid)	MSG_79	9V2QF 0 ATTECA ODIENTAMENTO ITTENCILE
MSG 25	%V368.0	ATTESA EL. POSIZIONE DI C.U. (rapid)	MSG 81	%V3A0.0 ATTESA PANNELLO SII BDF LATERALI AB
MSG 26	%V369.0	ATTESA EL. POSIZIONE 1 (rapid)	MSG 82	%V3A1.0 CAMBIO UTENSILE MANUALE EM1
MSG_27	%V36A.0	ATTESA EL. POSIZIONE 2 (rapid)	MSG_83	%V3A2.0 HOLD DA FOTOCELLULA
MSG_28	%V36B.0	ATTESA EL. POSIZIONE 3 (rapid)	MSG_84	%V3A3.0 EMERGENZA DA FOTOCELLULA
MSG_29	%V36C.0	ATTESA CUFFIA POSIZIONE DI C.U. (rapid)	MSG_85	%V3A4.0 CAMBIO UTENSILE MANUALE EM2
MSG_30	%V36D.0	CICLO DI C.U. IN CORSO (rapid)	MSG_86	%V3A5.0 CAMBIO UTENSILE MANUALE EM3
MSG_31	%V36E.0	TARATURA MAGAZZINO (rapid)	MSG_87	%V3A6.0 CAMBIO UTENSILE MANUALE EM4
MSG_32	%V36F.0	TARATURA ASSI	MSG_88	%V3A7.0 PREMERE F1 PER CONF. SCARICO UT.
MSG_33	%V370.0	ATTESA PULSANTE DI START	MSG_89	%V3A8.0 RITRARRE MAGAZZINO
MSG_34	%V3/1.U	TARATURA ASSI EFFETTUATA	MSG_90	8V3A9.U PREMERE FI PER CONF. IL CARICO UTENSIL
MSG_35	%V372.U %V373 ∩	ERRORE TARATURA ASSE A FPRORE TARATURA ASSE V	MSG_91	\$V3AA.U SIARI > PROSSIMO BLOCCO DI PROGRAMMA \$V3AB 0 NO FDIT
MSG 37	%V374.0	ERRORE TARATURA ASSE 7.	MSG 93	%V3AC.0 NO MODE
MSG 38	%V375.0	ERRORE TARATURA ASSE A	MSG 94	%V3AD.0 PEZZO NON BLOCCATO
MSG 39	%V376.0	ERRORE TARATURA ASSE MAGAZZINO	MSG 95	%V3AE.0 RICHIESTO START SENZA PROGRAMMA
MSG_40	%V377.0	MACCHINA IN STANDBY	MSG_96	%V3AF.O ZERO FEED_RATE
MSG_41	%V378.0	FAULT DRIVE ASSI DI SETUP PROTEZIONE TERMICA MOTORI PRESSIONE ARIA INSUFFICENTE EMERGENZA MACCHINA FAULT DRIVE ASSI BRUSHLESS FAULT DRIVE ASSE X FAULT DRIVE ASSE Y FAULT DRIVE ASSE Y FAULT DRIVE ASSE Z FINE CORSA X+ FINE CORSA X+ FINE CORSA Z- FINE CORSA Z- FINE CORSA Z- FINE CORSA Z- FAULT DRIVE ASSE C FINE CORSA A- FINE CORSA A- FINE CORSA A- ATTESA MAGAZZINO OUT (rapid) ATTESA MAGAZZINO IN (rapid) ATTESA MAGAZZINO UP (rapid) ATTESA MAGAZZINO UP (rapid) ATTESA UTENSILE SBLOCCATO (rapid) ATTESA UTENSILE BLOCCATO (rapid) ATTESA EL. POSIZIONE DI C.U. (rapid) ATTESA EL. POSIZIONE DI C.U. (rapid) ATTESA EL. POSIZIONE 3 (rapid) ATTESA EL. POSIZIONE 3 (rapid) ATTESA CUFFIA POSIZIONE 3 (rapid) TARATURA MAGAZZINO (rapid) TARATURA MAGAZZINO (rapid) TARATURA ASSI EFFETTUATA ERRORE TARATURA ASSE X ERRORE TARATURA ASSE A ERRORE TARATURA ASSE A ERRORE TARATURA ASSE A ERRORE TARATURA ASSE MAGAZZINO MACCHINA IN STANDBY BATTERIA SCARICA RIAGGANCIO EL. IN CORSO SEL. LO STATO DI EMERGENZA MACCHINA ATTESA BLOCCAGGIO PANNELLO AREA AB	MSG_97	%V39B.0 ANOMALIA CAMBIO UTENSILE %V39C.0 ELETTROMANDRINO SENZA UTENSILE %V39D.0 ERRORE CAMBIO UTENSILE %V39E.0 CUFFIA ELETTROMANDRINO SOLLEVATA %V39F.0 ATTESA ORIENTAMENTO UTENSILE %V3A0.0 ATTESA PANNELLO SU BDF LATERALI AB %V3A1.0 CAMBIO UTENSILE MANUALE EM1 %V3A2.0 HOLD DA FOTOCELLULA %V3A3.0 EMERGENZA DA FOTOCELLULA %V3A4.0 CAMBIO UTENSILE MANUALE EM2 %V3A5.0 CAMBIO UTENSILE MANUALE EM3 %V3A6.0 CAMBIO UTENSILE MANUALE EM4 %V3A7.0 PREMERE F1 PER CONF. SCARICO UT. %V3A8.0 RITRARRE MAGAZZINO %V3A9.0 PREMERE F1 PER CONF. IL CARICO UTENSIL %V3AA.0 < START > PROSSIMO BLOCCO DI PROGRAMMA %V3AB.0 NO EDIT %V3AB.0 NO EDIT %V3AC.0 NO MODE %V3AD.0 PEZZO NON BLOCCATO %V3AE.0 RICHIESTO START SENZA PROGRAMMA %V3AF.0 ZERO FEED_RATE %V3BO.0 ATTESA PROTEZIONI ALTE
MSG_42	%V379.0	RIAGGANCIO EL. IN CORSO		%V3B1.0 ATTESA PROTEZIONI BASSE
MSG_43	%V37A.0	SEL. LO STATO DI EMERGENZA MACCHINA		%V3B2.0 PREMERE F2 PER CONFERMARE
MSG_44	%V37B.0	ATTESA ROTAZIONE GRUPPO		0 %V3B3.0 ATTESA MAG. IN POSIZIONE 1 (random)
MSG_45	%V37C.0	ATTESA BLOCCAGGIO PANNELLO AREA AB		1 %V3B4.0 ATTESA MAG. IN POSIZIONE 2 (random)
		PIGNA MOBILE ABILITATA		2 %V3B5.0 ATTESA MAG. IN POSIZIONE 3 (random) 3 %V3B6.0 ATTESA MAG. IN POSIZIONE 4 (random)
MPG_4 /	%V37E.0	SETTING	MPG_103	o vodo.u atteba mag. in postatone 4 (random)
			1	

Author:			NUM	TOOLS	
Company:			NOM	тоопр	
Project:	Simboli.lib	TITRE		Date	28-02-2018
Module: M	EM_MSG.XSY			Page	1

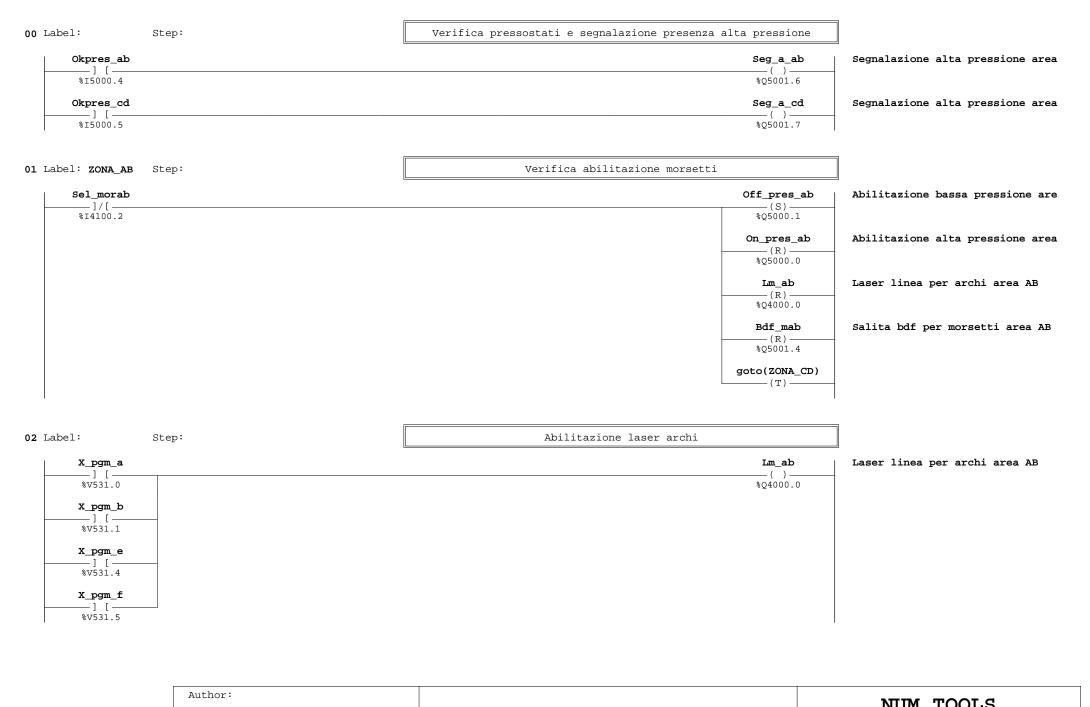
```
MSG_104 %V3B7.0 ATTESA MAG. ALTO (random)
MSG 105 %V3B8.0 ATTESA MAG. BASSO (random)
MSG_106 %V3B9.0 ATTESA MAG. SINISTRA (random)
MSG 107 %V3BA.0 ATTESA MAG. DESTRA (random)
MSG 108 %V3BB.0 ATTESA BLOCCO UT. SU EL.1 (random)
MSG_109 %V3BC.0 ATTESA BLOCCO UT. SU EL.2 (random)
MSG_110 %V3BD.0 ATTESA BLOCCO UT. SU EL.3 (random)
MSG 111 %V3BE.0 ATTESA BLOCCO UT. SU EL.4 (random)
MSG_112 %V3BF.0 ATTESA SBLOCCO UT SU EL.1 (random)
MSG_113 %V3C0.0 ATTESA SBLOCCO UT. SU EL.2 (random)
MSG_114 %V3C1.0 ATTESA SBLOCCO UT. SU EL.3 (random)
MSG_115 %V3C2.0 ATTESA SBLOCCO UT. SU EL.4 (random)
MSG_116 %V3C3.0 POSTO SEL. NON VUOTO (random)
MSG_117 %V3C4.0 POSTO SEL. SENZA UTENSILE (random)
MSG 118 %V3C5.0 ATTESA EL.1 IN POSIZIONE DI C.U. (random)
MSG_119 %V3C6.0 ATTESA EL.2 IN POSIZIONE DI C.U. (random)
MSG_120 %V3C7.0 ATTESA EL.3 IN POSIZIONE DI C.U. (random)
MSG 121 %V3C8.0 ATTESA EL.4 IN POSIZIONE DI C.U. (random)
MSG 122 %V3C9.0 ATTESA PANNELLO SU BDF LATERALI AB
                        CONFERMA SCARICO TRASPORTATORI
MSG 123 %V3DA.0
MSG 124 %V3DB.0 SCARICO PER EMERGENZA IN CORSO
MSG 125 %V3DC.0 INIBIZIONE SCARICO AB
MSG_126 %V3DD.0 INIBIZIONE SCARICO CD
MSG 127 %V3DE.0
                        GRUPPO OPERATORE
MSG 128 %V3DF.0
                        SCARICATORE
MSG 129 %V3000.0
                        ESEGUIRE TARATURA PIANI E VENTOSE
MSG_130 %V3001.0
                        AGGANCIO NON AVVENUTO
MSG_131 %V3002.0
                        ATTESA GRUPPO POS. PIANI E VENTOSE BASSO
MSG 132 %V3003.0
                        ATTESA GRUPPO POS. PIANI E VENTOSE ALTO
MSG_133 %V3004.0
                        FAULT DRIVE ASSE B
MSG_134 %V3005.0
                        ERRORE TARATURA ASSE B
MSG 135 %V3006.0
                        LUBRIFICARE MACCHINA (M198 ok)
MSG_136 %V3007.0
                        UTENSILE USURATO
MSG_137 %V3008.0
                        ERRORE TASTATURA
MSG 138 %V3009.0
                        TIME OUT SERIALE
MSG_139 %V300A.0
                        FAULT DRIVE ASSE SERIALE
MSG 140 %V300B.0
                        ERRORE GENERALE SU POS. PIANI E VENTOSE
                        RAPID 1
MSG_141 %V300C.0
MSG 142 %V300D.0
                        RAPID 2
MSG 143 %V300E.0
                        ERRORE MANCANZA BUSSOLE PREMERE START
MSG 144 %V300F.0
                        CICLO LAVAGGIO INS. BUSSOLE IN CORSO
MSG_145 %V3010.0
                        ATTESA BUSSOLA SU GRUPPO INSERITORE
MSG 146 %V3011.0
                        ATTESA GRUPPO INSERITORE BASSO
MSG_147 %V3012.0
                        ATTESA INSERITORE BASSO
                        ATTESA GRUPPO INSERITORE ALTO
MSG_148 %V3013.0
MSG 149 %V3014.0
                        Esecuzione simulata non possibile
MSG_150 %V3015.0
                        LAVORAZIONE CON MORSETTI AREA AB
MSG 151 %V3016.0
                        LAVORAZIONE CON MORSETTI AREA CD
MSG 152 %V3017.0
                        MORSETTI AREA AB ALTI PNEUMATICAMENTE
MSG_153 %V3018.0
                        MORSETTI AREA CD ALTI PNEUMATICAMENTE
MSG_154 %V3019.0
                        TOOL-ROOM NON IN POSIZIONE
MSG 155 %V301A.0
                        ATTESA TOOL-ROOM ALTA
MSG_156 %V301B.0
                        ATTESA TOOL-ROOM BASSA
MSG_157 %V301C.0
                        ATTESA TOOL-ROOM AVANTI (Y-)
MSG_158 %V301D.0
                        ATTESA TOOL-ROOM DIETRO (Y+)
MSG 159 %V301E.0
                        ANOMALIA INVERTER 10%
```

```
MSG 160 %V301F.0
                       PRESSOSTATO REFRIGERATORE EL.1
MSG 161 %V3020.0
                       PRESSOSTATO REFRIGERATORE EL.2
MSG_162 %V3021.0
                       VENTOSE NON BLOCCATE SU PIANO AB
MSG 163 %V3022.0
                       VENTOSE NON BLOCCATE SU PIANO CD
MSG_164 %V3023.0
                       CICLO AREA AB NON OK
MSG_165 %V3024.0
                       CICLO AREA CD NON OK
MSG 166 %V3025.0
                       ORIGINE CUFFIA IN CORSO
MSG 167 %V3026.0
                       FARE RIFERIMENTO CUFFIA
MSG 168 %V3027.0
                       FAULT MOTORE CUFFIA
                             Area AB non libera
MSG 169
               %V3028.0
MSG_170
              %V3029.0
                             Area CD non libera
MSG 171 %V302A.0
                       ANOMALIA ELETTROMANDRINO
MSG 172 %V302B.0
                       ATTESA PISTONE CUFFIA BASSO
MSG 173 %V302C.0
                       ATTESA PISTONE CUFFIA ALTO
MSG 174 %V302D.0
                       CUFFIA DISABILITATA
MSG 178 %V3031.0
                       Presenza errori motori PDL area A
MSG_179 %V3032.0
                       Presenza errori motori PDL area B
MSG 180 %V3033.0
                       Presenza errori motori PDL area C
MSG 181 %V3034.0
                       Presenza errori motori PDL area D
MSG 182 %V3035.0
                       Premere F5 per conferma rimozione ventose
MSG 183 %V3036.0
                       Setup piani e ventose in corso
MSG 184 %V3037.0
                       Setup piani e ventose non programmato
MSG_185 %V3038.0
                       Errore setup piani e ventose
MSG 186 %V3039.0
                       Attesa sblocco ventose
MSG 187 %V303A.0
                       ATTESA DISPOSITIVO DI AGGANCIO PIANI E VENTOSE BASSO
MSG 188 %V303B.0
                       ATTESA AGGANCIO PIANI
MSG_189 %V303C.0
                       ATTESA AGGANCIO VENTOSA - PIANO 1
MSG_190 %V303D.0
                       ATTESA AGGANCIO VENTOSA - PIANO 2
MSG 191 %V303E.0
                       ATTESA AGGANCIO VENTOSA - PIANO 3
MSG 192 %V303F.0
                       ATTESA AGGANCIO VENTOSA - PIANO 4
MSG_193 %V3040.0
                       ATTESA AGGANCIO VENTOSA - PIANO 5
MSG 194 %V3041.0
                       ATTESA AGGANCIO VENTOSA - PIANO 6
MSG_195 %V3042.0
                       ATTESA AGGANCIO VENTOSA - PIANO 7
MSG_196 %V3043.0
                       ATTESA AGGANCIO VENTOSA - PIANO 8
MSG 197 %V3044.0
                       ATTESA AGGANCIO VENTOSA - PIANO 9
MSG 198 %V3045.0
                       ATTESA AGGANCIO VENTOSA - PIANO 10
MSG 199 %V3046.0
                       ATTESA AGGANCIO VENTOSA - PIANO 11
MSG_200 %V3047.0
                       ATTESA AGGANCIO VENTOSA - PIANO 12
MSG_201 %V3048.0
                       PREMERE F5 PER CONFERMA AGGANCIO VENTOSA O PIANO
MSG_202 %V3049.0 LIBERO
MSG 203 %V304A.0 LIBERO
```

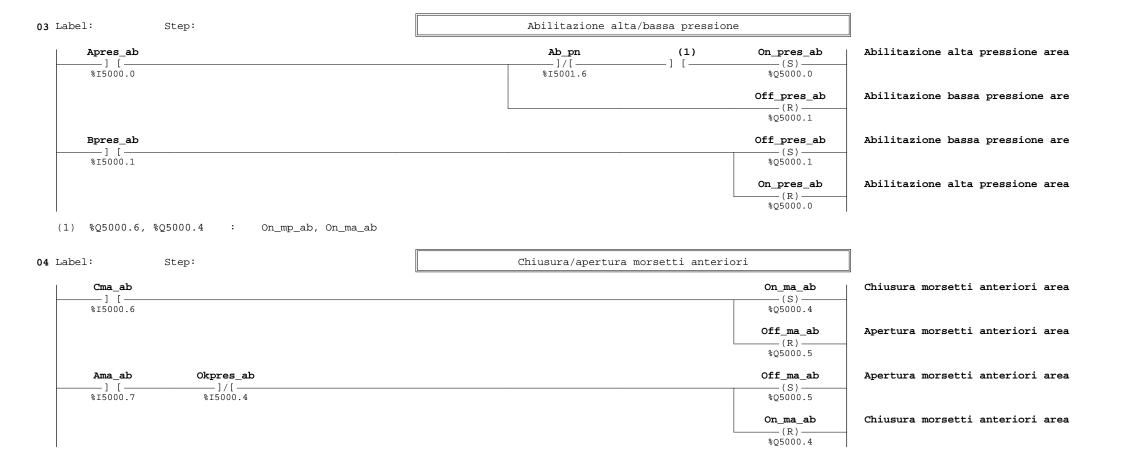
Author:
Company:

Project: Simboli.lib
TITRE

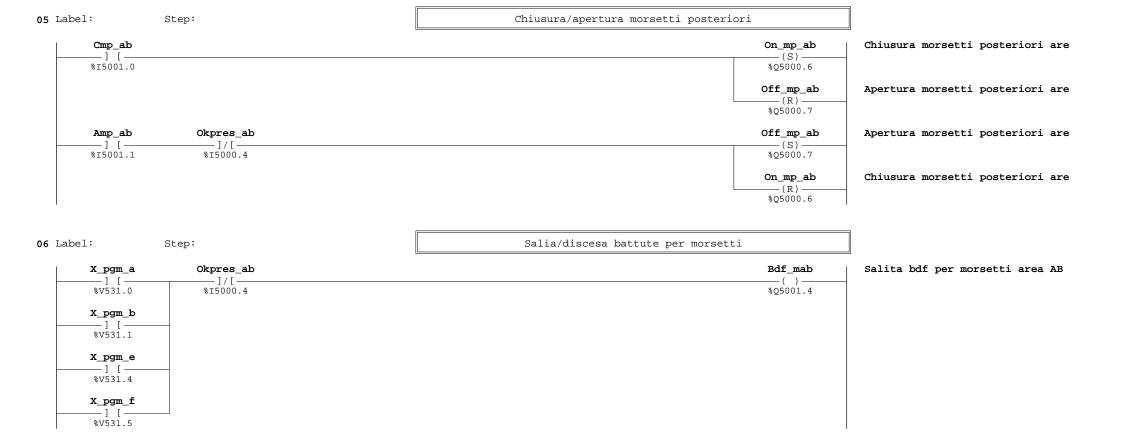
Date 28-02-2018
Page 2



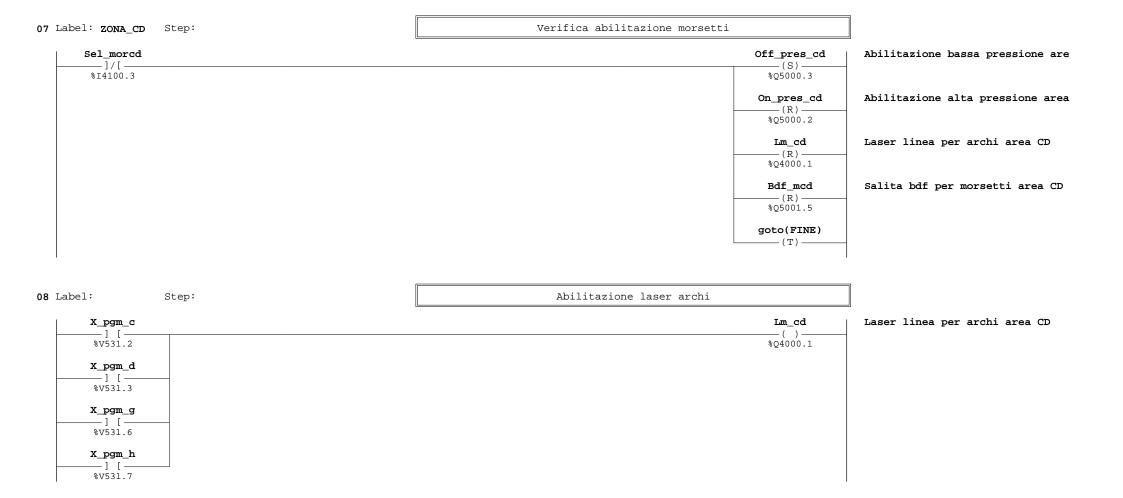
Company:		11011	TOOLL	
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: MORSETTI.XLA		%SP19 (00)	Page	1



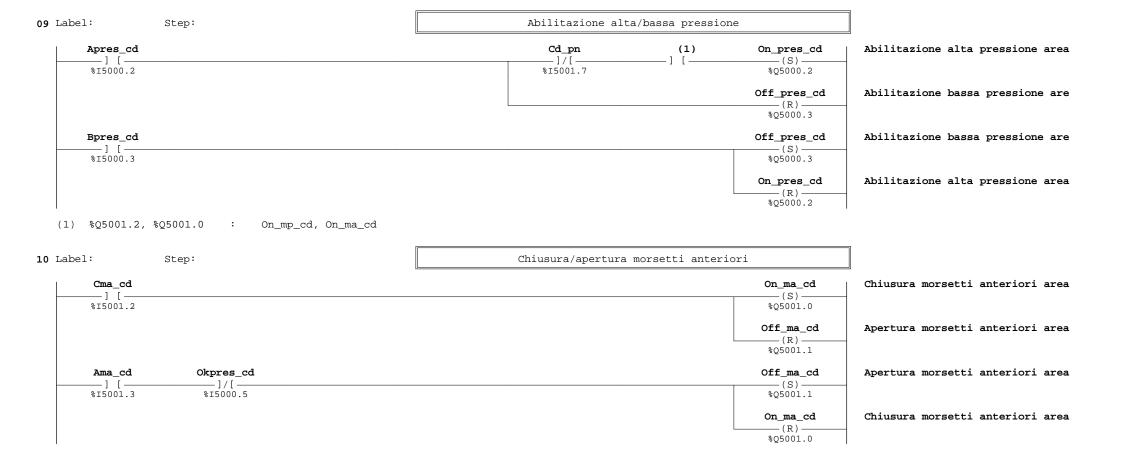
Author:			NITIM	TOOT C	
Company:			NUM TO		9
Project: 1040	0_78.mch	TITRE		Date	28-02-2018
Module: MORSE	ETTI.XLA		%SP19 (03)	Page	2



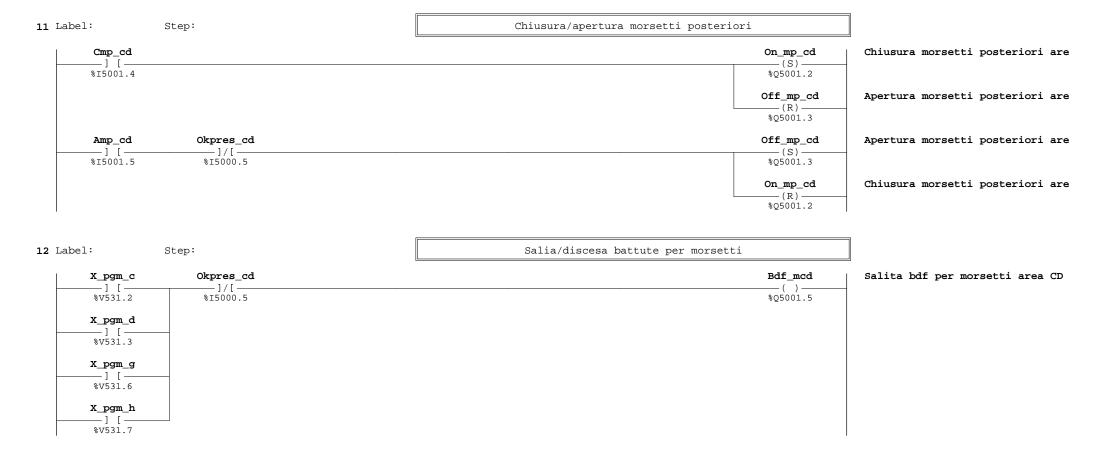
Author:		NUM TOOLS		Q
Company:		NOM	TOOL	5
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: MORSETTI.XLA		%SP19 (05)	Page	3



Author:		NUM	TOOL	d
Company:		NOM	1001	5
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: MORSETTI.XLA		%SP19 (07)	Page	4



Author:		NUM TOOLS		C
Company:		NOM	1001	ib
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: MORSETTI.XLA		%SP19 (09)	Page	5



13 Label: FINE Step:

Author:		NTTM	TOOL	d
Company:		NOM	1001	10
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: MORSETTI.XLA		%SP19 (11)	Page	6

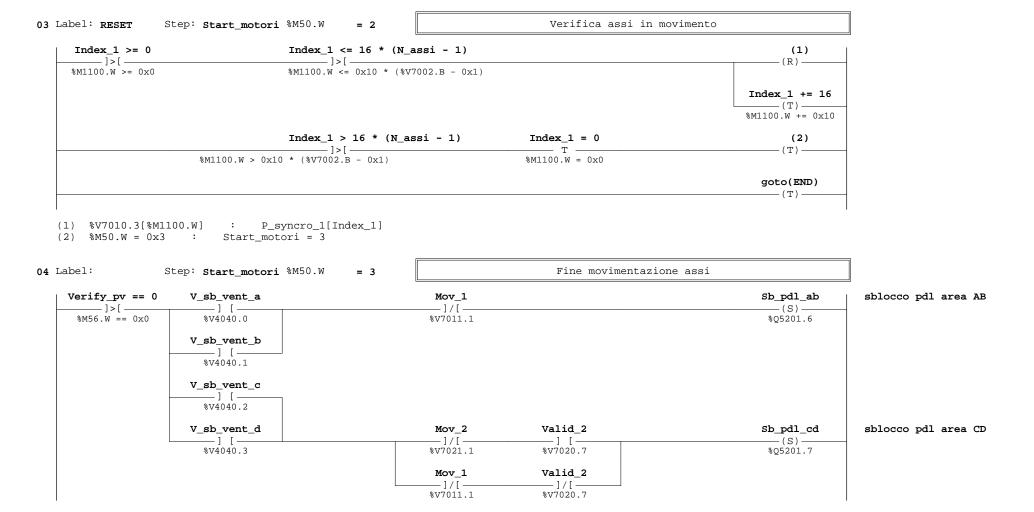
```
Start_motori != 0
                                                           TON_76(100)
                                                                                                                      (1)
        __]>[__
                                                                                                                    -(T)—
      %M50.W != 0x0
      Start_move
                                                                                                                      (2)
         —][—
                                                                                                                    -(T)-
        %V4030.7
                                                                                                                 goto(END)
                                                                                                                   — (T) –
   (1) %M50.W = 0x0
                             Start_motori = 0
                       :
                             Start_motori = 1
   (2)
        M50.W = 0x1
   [T] TON_76(0x64)
                             TON_76(100)
                                                                             Start asse n.... se predisposto
01 Label:
                    Step: Start_motori %M50.W
                                                  = 1
      Index_1 = 0
                                                                                                                                  start movimentazione motori
                                                                                                                 Start_move
         — т —
                                                                                                                    —(R)-
     M1100.W = 0x0
                                                                                                                  %V4030.7
        Move_ok
                                                                                                                C_syncstart
                                                                                                                                  start assi sincronizzato
        __][_
                                                                                                                   —(S)—
        %V4030.0
                                                                                                                  %V700c.0
                                                                                                                                  Predisposizione start motori
                                                                                                                  Move ok
                                                                                                                   — (R)—
                                                                                                                  %V4030.0
02 Label:
                    Step: Start_motori %M50.W
                                                 = 1
      Bitmove all
                                                                                                                      (1)
         —][—
                                                                                                                    -(T)-
        %V7a00.0
      C_syncstart
         — ] / [ —
        %V700c.0
                                                                                                                 goto(END)
                                                                                                                   —(T)—
                             Start_motori = 2
   (1) %M50.W = 0x2 :
```

00 Label:

Step: Start_motori %M50.W

= 0

Author:		NTTM	TOOLS	1
Company:		MOM	тоопа	•
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Module: MOVE_PV.XLA		%SP216 (00)	Page	1
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Author:		NUM	TOOL	d
Company:		NOM	1001	5
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Module: MOVE_PV.XLA		%SP216 (03)	Page	2

05 Label: Step: Start_motori %M50.W = 3



(1) \$M50.W = 0x0 : Start_motori = 0 [T] $TON_76(0x3e8)$: $TON_76(1000)$

06 Label: END Step:

Author: Company:		NUM	TOOL	S
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Module: MOVE_PV.XLA		%SP216 (05)	Page	3

00 Label:

Step:

Movimento_pv] [%V4032.0	Mov_1] [%V7011.1	Icla_move_1	movimento motore icla 1
	Mov_2] [%V7021.1	Icla_move_2	movimento motore icla 2
	Mov_3] [%V7031.1	Icla_move_3(S)	movimento motore icla 3
	Mov_4] [%V7041.1	Icla_move_4	movimento motore icla 4
	Mov_5] [Icla_move_5	movimento motore icla 5
	Mov_6] [%V7061.1	Icla_move_6	movimento motore icla 6

01 Label: Step:

Movimento_pv] [%V4032.0	Mov_7] [Icla_move_7 (S) %V4016.0	movimento motore icla 7
	Mov_8] [%V7081.1	Icla_move_8 (S) %V4017.0	movimento motore icla 8
	Mov_9] [] [Icla_move_9 (S)_ %V4018.0	movimento motore icla 9
	Mov_10] [Icla_move_10 (S) %V4019.0	movimento motore icla 10
	Mov_11] [Icla_move_11	movimento motore icla 11
	Mov_12] [Icla_move_12 (S) %V401b.0	movimento motore icla 12

Author:		NTTM	TOOLS	!
Company:		MOM	тоопа	•
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: MOVEICLA.XLA		%SP215 (00)	Page	1

02 Label: Step:

1	Movimento_pv	Mov_13	Icla_move_13	movimento motore icla 13
] [%V4032.0] [%V70dl.1	(S)	
		Mov_14	Icla_move_14	movimento motore icla 14
		\] [%V70e1.1	(S)	

03 Label: Step:

Movimento_pv]/[Icla_move_1	movimento motore icla 1
	Icla_move_2 (R) %V4011.0	movimento motore icla 2
	Icla_move_3	movimento motore icla 3
	Icla_move_4	movimento motore icla 4
	Icla_move_5 	movimento motore icla 5
	Icla_move_6 (R) *V4015.0	movimento motore icla 6

Author:		MITM	TOOLS	3
Company:		NOM	TOOL.	5
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Module: MOVEICLA.XLA		%SP215 (02)	Page	2

Label: Step:

Movimento_pv	Icl	la_move_7	movimento motore icla 7
%V4032.0	8	—(R)———— %V4016.0	
	Icl	la_move_8 (R)	movimento motore icla 8
	8	%V4017.0	
	Icl	la_move_9 — (R)———	movimento motore icla 9
	⁸	₹V4018.0	
	Icl	a_move_10	movimento motore icla 10
	8	(K)	
		a_move_11 (R)	movimento motore icla 11
		—(R)———— %V401a.0	
	Icl	a_move_12 (R)	movimento motore icla 12
	\	— (R) ———— %V401b.0	1

Label: Step:

Movimento_pv]/[Icla_move_13 (R)	movimento motore icla 13
	Icla_move_14 (R)	movimento motore icla 14

Author: Company:		NUM	TOOLS	3
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Module: MOVEICLA.XLA		%SP215 (04)	Page	3

00 Label: Step: Verifica vacuostati e segnalazione presenza vuoto Vacu_1 Sel_rw Lamp_1 Segnalazione presenza vuoto zona %I4100.6 %04200.6 %I4200.4 Vacu rw Sel rw %I4200.6 %I4100.6 Vacu_2 Sel_rw Lamp_2 Segnalazione presenza vuoto zona -]/[-—][-%I4200.7 %I4100.6 %04200.7 Vacu_rw Sel_rw __1 [_ -1 [-%I4200.6 %I4100.6 Sel_rw goto(REVERSE) _][_ —(T)-%I4100.6 **01** Label: Step: Battute di fondo zona 1 posteriore App_pvacloff V208_0 Salita BDF zona 1 posteriore X_pgm_a Vacu_1 Bdf_1p — 1 [— _] [--R T--]/[-—(S)-%V531.0 %V6a.1 %V208.0 %I4200.4 %Q4200.0 Vacu_1 Bdf_1p Salita BDF zona 1 posteriore X_pgm_b _][_ _1 [-—(R)-%V531.1 %I4200.4 %Q4200.0

(1) %V531.3, %V1.2 : X_pgm_d, Abb_aree_ad

Vacu_2, Abb_aree_ad

%I4200.7, %V1.2

(1)

][

X_end ---]/[---%V503.0

Author:	NUM		TOOLS	
Company:				
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: P_NESTIN.XLA		%SP18 (00)	Page	1

02 Label: Step: Battute di fondo zona 1 anteriore

App_pvacloff X_pgm_e V208_1 Vacu_1 Bdf_1a -R T-_]/[-—(S)-%V208.1 %I4200.4 %Q4201.0 %V531.4 %V6a.1 Vacu 1 Bdf_1a X_pgm_f — (R) – -][-%V531.5 %I4200.4 %Q4201.0 (1) Vacu_2, Abb_aree_ad %I4200.7, %V1.2 —][- X_{end} _]/[-%V503.0

(1) %V531.6, %V1.2 : X_pgm_g, Abb_aree_ad

03 Label: Step: Battute di fondo zona 2 posteriore

X_pgm_c	App_pvac2off	V208_2	Vacu_2	Bdf_2p (S)
%V531.2	%V6a.3	R_T	%14200.7	%Q4200.1
X_pgm_d	Vacu_2			Bdf_2p (R) ———
%V531.3	%14200.7			%Q4200.1
[1)	Vacu_1, Abb_aree_a	ad		
X_end				
%V503.0				

(1) %V531.0, %V1.2 : X_pgm_a, Abb_aree_ad

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Salita BDF zona 1 anteriore

Salita BDF zona 1 anteriore

Salita BDF zona 2 posteriore

Salita BDF zona 2 posteriore

04 Label: Step: Battute di fondo zona 2 anteriore X pgm g App_pvac2off V208_3 Vacu_2 Bdf_2a Salita BDF zona 2 anteriore -R T-_]/[-—(S)-%V208.3 %04201.1 %V531.6 %V6a.3 %I4200.7 Vacu 2 Bdf 2a Salita BDF zona 2 anteriore X pgm h — (R)-%V531.7 %I4200.7 %Q4201.1 (1) Vacu_1, Abb_aree_ad —] [-%I4200.4, %V1.2 X_end —] / [-%V503.0 goto(NESTING) —(T)— (1) %V531.4, %V1.2 : X_pgm_e, Abb_aree_ad 05 Label: REVERSE Battute di fondo zone 1 e 2 posteriore App_pvacloff V208 4 Bdf_1p Salita BDF zona 1 posteriore X_pgm_a Vacu rw —] [– _] [--R_T-**—**]/[-—(S)-%V531.0 %V6a.1 %V208.4 %I4200.6 %Q4200.0 App_pvac2off Bdf_2p Salita BDF zona 2 posteriore _][_ —(S)-%Q4200.1 %V6a.3 Bdf 1p Salita BDF zona 1 posteriore Vacu rw -][— —(R)—

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%Q4200.0 **Bdf 2p**

—(R)-

%04200.1

Salita BDF zona 2 posteriore

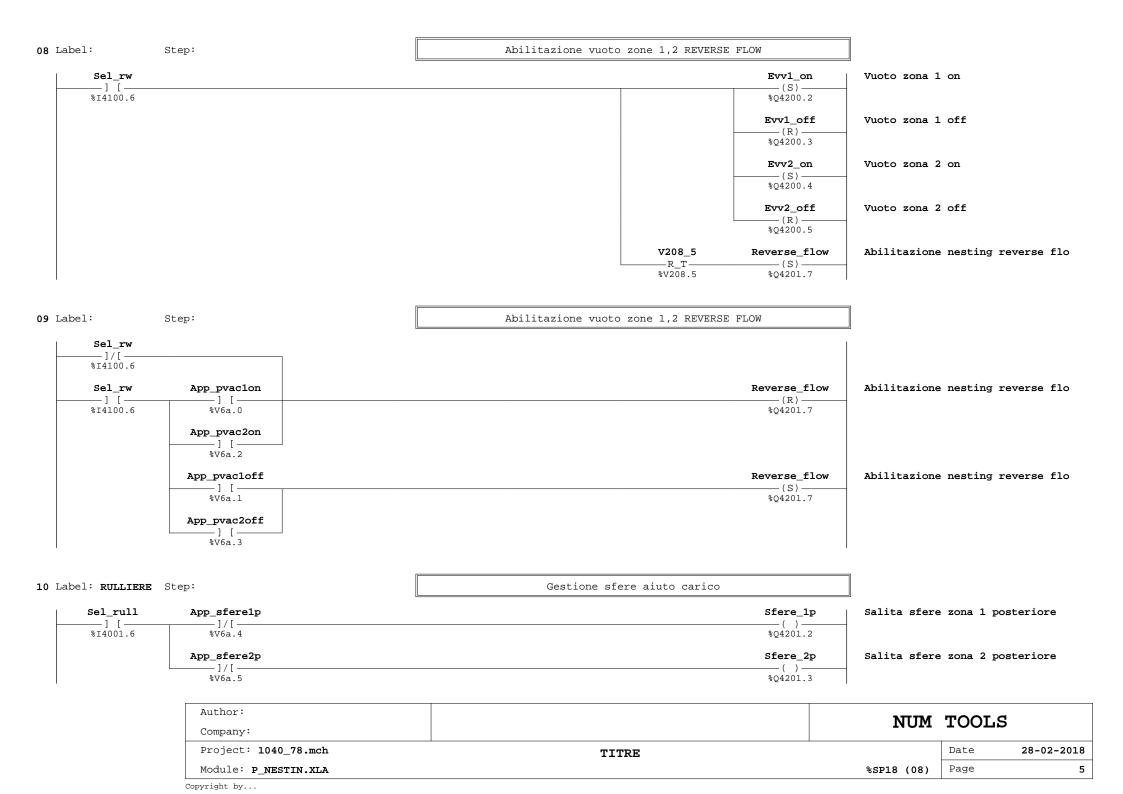
%I4200.6

X_end __]/[_

%V503.0



Author:		NUM	TOOL	Q
Company:		MOM	TOOL	10
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: P_NESTIN.XLA		%SP18 (06)	Page	4

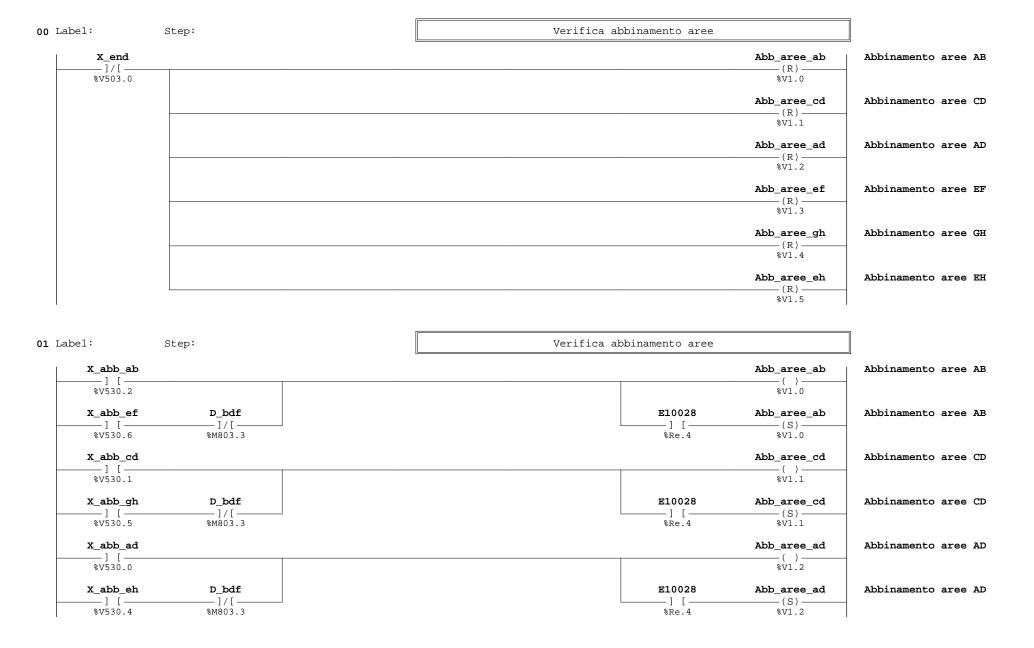


11 Label:	Step:			Gestione sfere aiuto	carico	
App_pvaclon	V208_6	Vacu_1	Vacu_2	Bdf_1p	App_sfere1p (S)	Appoggio out sfere zona 1
%V6a.0	%V208.6	%14200.4	%I4200.7	%Q4200.0	%V6a.4	
			Abb_aree_ad	Bdf_1a		
			%V1.2	%Q4201.0		
App_pvac2on	V208_7 R_T	Vacu_2]/[Vacu_1]/[Bdf_2p] [App_sfere2p (S)	Appoggio out sfere zona 2
%V6a.2	%V208.7	%14200.7	%14200.4	%Q4200.1	%V6a.5	
			Abb_aree_ad	Bdf_2a		
			%V1.2	%Q4201.1		
						i
12 Label:	Step:			Gestione sfere aiuto	carico	
App_pvacloff	V209_0 R_T	Vacu_1	Vacu_2	App_sfere1p	App_sf1p (S)-	Appoggio sfere zona 1
%V6a.1	%V209.0	%14200.4	%I4200.7	%V6a.4	%V6a.6	
			Abb_aree_ad			
			*V1.2			
App_pvac2off		Vacu_2	7/[%V1.2 Vacu_1	App_sfere2p	App_sf2p	Appoggio sfere zona 2
App_pvac2off] [%V6a.3	V209_1 R_T %V209.1	Vacu_2][%I4200.7]/[%V1.2	App_sfere2p 	App_sf2p (S) %V6a.7	Appoggio sfere zona 2
] [—] [] [(S)	Appoggio sfere zona 2

Author:		NUM TOOLS		Q
Company:		NOM	1001	JD OIL
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Company:		NOW TOOLS		ПО
Project: 1040_78.mch	TITRE		Date	28-02-2018
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Company:		NOM	1001	10
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: P_VUOTO.XLA		%SP16 (00)	Page	1

02 Label: Step: Verifica se piano nesting

| Nesting | goto(NESTING) | (T) - (T

03 Label: Step: Blocco sblocco pannello

(1) Mem. appoggio per look area A Puls_va App_locka]/[--(S)-%I4200.0 %Vf.0 Abb_aree_ab X_exec_a, X_next_a, X_exec_b, X_next_b, X_exec_e, X_next_e, X_exec_f, X_next_f %V1.0 %V5b4.0, %V5b5.0, %V5b4.1, %V5b5.1, %V5b4.4, %V5b5.4, %V5b4.5, %V5b5.5 Abb_aree_ef —][-%V1.3 Abb aree ad (2) (3) _][_ %V1.2 Abb_aree_eh X_exec_a _][-—][— %V1.5 %V5b4.0 E_oper X_exec_e -1 [-— 1 [— %R3.7 %V5b4.4

- (1) %V5b4.0, %V5b5.0, %V5b4.4, %V5b5.4, %V1.0, %V1.2, %V1.3, %V1.5 : X_exec_a, X_next_a, X_exec_e, X_next_e, Abb_aree_ab, Abb_aree_ad, Abb_aree_ef, Abb_aree_eh
- (2) %V5b4.0, %V5b5.0, %V5b4.1, %V5b5.1, %V5b4.2, %V5b5.2, %V5b4.3, %V5b5.3 : X_exec_a, X_next_a, X_exec_b, X_next_b, X_exec_c, X_next_c, X_exec_d, X_next_d
- (3) %V5b4.4, %V5b5.4, %V5b4.5, %V5b5.5, %V5b4.6, %V5b5.6, %V5b4.7, %V5b5.7 : X_exec_e, X_next_e, X_exec_f, X_next_f, X_exec_g, X_next_g, X_exec_h, X_next_h

Author:
Company:

Project: 1040_78.mch
Module: P_VUOTO.XLA

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Step:

Blocco sblocco pannello

Puls_vbi	(1)				App_lockb	Mem. appoggio per look area B
%I4200.1]/[(S)	
	Abb_aree_ab]/[o, X_exec_e, X_next_e, X_exec_, %V5b5.4, %V5b4.5, %V5b5.5	ec_f, X_next_f	
	Abb_aree_ef] [
	Abb_aree_ad] [[2]]/[
	Abb_aree_eh] [] [%V1.5		X_exec_b] [
		E_oper] [X_exec_f] [

- (1) %V5b4.1, %V5b5.1, %V5b4.5, %V5b5.5, %V1.0, %V1.2, %V1.3, %V1.5 : X_exec_b, X_next_b, X_exec_f, X_next_f, Abb_aree_ab, Abb_aree_ad, Abb_aree_ef, Abb_aree_eh
- (2) %V5b4.0, %V5b5.0, %V5b4.1, %V5b5.1, %V5b4.2, %V5b5.2, %V5b4.3, %V5b5.3 : X_exec_a, X_next_a, X_exec_b, X_next_b, X_exec_c, X_next_c, X_exec_d, X_next_d
- (3) %V5b4.4, %V5b5.4, %V5b4.5, %V5b5.5, %V5b4.6, %V5b5.6, %V5b4.7, %V5b5.7 : X_exec_e, X_next_e, X_exec_f, X_next_f, X_exec_g, X_next_g, X_exec_h, X_next_h

Author:		NITIM	TOOLS	1
Company:		MOH	TOOL	,
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Blocco sblocco pannello

Puls_vcl	(1)]/[App_lockc	Mem. appoggio per look area C
%I4200.2	Abb_aree_cd	<pre>X_exec_c, X_next_c, X_exec_d, X_next_d, X_exec_g, X_next_g,</pre>	%Vf.2 , X_exec_h, X_next_h	
	%V1.1	%V5b4.2, %V5b5.2, %V5b4.3, %V5b5.3, %V5b4.6, %V5b5.6, %V5b4.7, %V5b!	5.7	
	Abb_aree_gh			
	Abb_aree_ad 	(2) (3) 		
	Abb_aree_eh] [%V1.5	X_exec_c] [%V5b4.2		
		E_oper		

- (1) %V5b4.2, %V5b5.2, %V5b4.6, %V5b5.6, %V1.1, %V1.4, %V1.2, %V1.5 : X_exec_c, X_next_c, X_exec_g, X_next_g, Abb_aree_cd, Abb_aree_gh, Abb_aree_ad, Abb_aree_eh
- (2) %V5b4.0, %V5b5.0, %V5b4.1, %V5b5.1, %V5b4.2, %V5b5.2, %V5b4.3, %V5b5.3 : X_exec_a, X_next_a, X_exec_b, X_next_b, X_exec_c, X_next_c, X_exec_d, X_next_d
- (3) %V5b4.4, %V5b5.4, %V5b4.5, %V5b5.5, %V5b4.6, %V5b5.6, %V5b4.7, %V5b5.7 : X_exec_e, X_next_e, X_exec_f, X_next_f, X_exec_g, X_next_g, X_exec_h, X_next_h

Author:		NIIM	TOOLS	3
Company:		11011	10011	
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06 Label: Step: Blocco sblocco pannello Puls_vd (1) App_lockd Mem. appoggio per look area D -(S) %I4200.3 %Vf.3 Abb aree cd X_exec_c, X_next_c, X_exec_d, X_next_d, X_exec_g, X_next_g, X_exec_h, X_next_h _] [_ %V1.1 %V5b4.2, %V5b5.2, %V5b4.3, %V5b5.3, %V5b4.6, %V5b5.6, %V5b4.7, %V5b5.7 Abb_aree_gh — 1 [-%V1.4 Abb_aree_ad (2) (3) — l [--]/[-%V1.2 Abb_aree_eh X_exec_d _1 [_ _][-%V1.5 %V5b4.3 E_oper X_exec_h -1 [--][-%R3.7 %V5b4.7 (1) %V5b4.3, %V5b5.3, %V5b4.7, %V5b5.7, %V1.1, %V1.4, %V1.2, %V1.5 X_exec_d, X_next_d, X_exec_h, X_next_h, Abb_aree_cd, Abb_aree_gh, Abb_aree_ad, Abb aree eh (2) %V5b4.0, %V5b5.0, %V5b4.1, %V5b5.1, %V5b4.2, %V5b5.2, %V5b4.3, %V5b5.3 X_exec_a, X_next_a, X_exec_b, X_next_b, X_exec_c, X_next_c, X_exec_d, X_next_d (3) %V5b4.4, %V5b5.4, %V5b4.5, %V5b5.5, %V5b4.6, %V5b5.6, %V5b4.7, %V5b5.7 X_exec_e, X_next_e, X_exec_f, X_next_f, X_exec_g, X_next_g, X_exec_h, X next h **07** Label: Step: Blocco sblocco pannello Puls va Puffer App_locka App_locka Mem. appoggio per look area A -]/[-]/[-(R)-%I4200.0 %M803.2 %Vf.0 %Vf.0 Puffer Rull off a1 -]/[-%M803.2 %V5.4

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App_lockb

%Vf.1

App_lockb

-(R)

%Vf.1

Mem. appoggio per look area B

Puffer

-]/[

%M803.2

Puffer —] [—

%M803.2

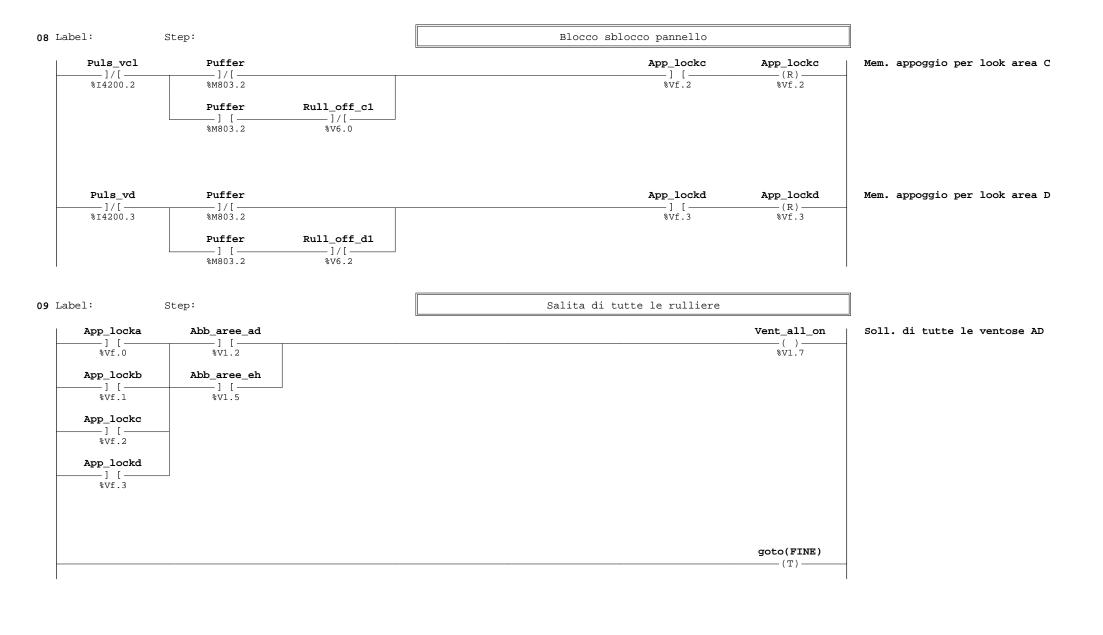
Rull_off_b1

—]/[— %V5.6

Puls vbi

—] / [-

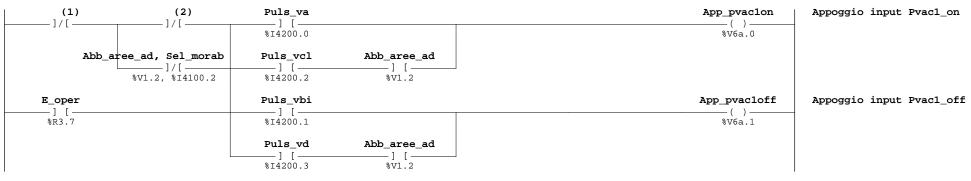
%I4200.1



Author:		NUM	TOOL	C
Company:		INOM	тООП	Б
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: P_VUOTO.XLA		%SP16 (08)	Page	6

10 Label: NESTING Step:

Blocco sblocco pannello



- (1) %V5b4.0, %V5b5.0, %V5b4.4, %V5b5.4, %V5b4.1, %V5b5.1, %V5b4.5, %V5b5.5 : X_exec_a, X_next_a, X_exec_e, X_next_e, X_exec_b, X_next_b, X_exec_f, X_next_f
- (2) %V5b4.2, %V5b5.2, %V5b4.6, %V5b5.6, %V5b4.3, %V5b5.3, %V5b4.7, %V5b5.7 : X_exec_c, X_next_c, X_exec_g, X_next_g, X_exec_d, X_next_d, X_exec_h, X_next_h

11 Label: Step:

Blocco sblocco pannello



- (1) %V5b4.2, %V5b5.2, %V5b4.6, %V5b5.6, %V5b4.3, %V5b5.3, %V5b4.7, %V5b5.7 : X_exec_c, X_next_c, X_exec_g, X_next_g, X_exec_d, X_next_d, X_exec_h, X_next_h
- (2) %V5b4.0, %V5b5.0, %V5b4.4, %V5b5.4, %V5b4.1, %V5b5.1, %V5b4.5, %V5b5.5 : X_exec_a, X_next_a, X_exec_e, X_next_e, X_exec_b, X_next_b, X_exec_f, X_next_f

12 Label: FINE Step:

Copyright by...

Author:		NUM	TOOL	d
Company:		NOM	тООП	D
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Module: P_VUOTO.XLA		%SP16 (10)	Page	7

```
%21352300;09
P0N0:t6n1;09
#000FFFFF;09
P1N0:t6n2;09
#00000040 00000180;12
P2N0:t6n1;09
#00000187;09
P3N0:t6n1;09
#00000187;09
P4N0:t0n5;09
#0 0 3 0 4;0A
P5N0:t0n2;09
#1 0;04
P6N0:t0n9;09
#1 0 0 0 0 0 1 2 3;12
P7N0:t0n2;09
#10 C;05
P8N0:t6n1;09
#0000000;09
P9N0:t0n32;0A
#0 1 2 FF FF FF FF 7 8 FF;19
P9N10:t0n32;0B
#FF FF FF FF FF FF FF FF;1E
P9N20:t0n32;0B
#FF FF FF FF FF FF FF FF;1E
P9N30:t0n32;0B
#FF FF;06
P10N0:t6n1;0A
#00000000;09
P11N0:t5n64;0B
#2 1 15 8 15 16 64 128 3600 144;1F
P11N10:t5n64;0C
#64 128 120 1 64 128 64 128 64 128;22
P11N20:t5n64;0C
#64 128 64 128 64 128 64 128 64 128;23
P11N30:t5n64;0C
#64 128 64 128 64 128 64 128 64 128;23
P11N40:t5n64;0C
#64 128 64 128 64 128 64 128 64 128;23
P11N50:t5n64;0C
#64 128 64 128 64 128 64 128 64 128;23
P11N60:t5n64;0C
#64 128 64 128;0E
P12N0:t0n1;0A
#0;02
P13N0:t5n18;0B
#64 128 64 128 64 128 64 128 128 128;24
P13N10:t5n18;0C
#0 0 0 0 0 0 0 0;10
P14N0:t0n2;0A
#0 0:04
P15N0:t6n2;0A
#00000181 00000000;12
P16N0:t2n32;0B
#-87600 +471400 +177450 +0 -43900 +0 +1233480 -901075 -3181561 +0;41
P16N10:t2n32;0C
```

```
#+0 +0 +0 +0 +0 +0 +0 +0 +0;1E
P16N20:t2n32;0C
#+0 +0 +0 +0 +0 +0 +0 +0 +0;1E
P16N30:t2n32;0C
#+0 +0;06
P17N0:t2n63;0B
#-114000 +4872000 -892000 +537000 -194000 +206000 -10000000 +10000000 -45000
+3610000;55
P17N10:t2n63;0C
#-10000000 +10000000 -10000000 +10000000 -970000 +2065000 -3375000 +3395000
-10000000 +10000000;5F
P17N20:t2n63;0C
#-10000000 +10000000 -10000000 +10000000 -10000000 +10000000 -10000000 +1000
0000 -10000000 +10000000;64
P17N30:t2n63;0C
#-10000000 +10000000 -10000000 +10000000 -10000000 +10000000 -10000000 +1000
0000 -10000000 +10000000;64
P17N40:t2n63;0C
#-10000000 +10000000 -10000000 +10000000 -10000000 +10000000 -10000000 +1000
0000 -10000000 +10000000;64
P17N50:t2n63;0C
#-10000000 +10000000 -10000000 +10000000 -10000000 +10000000 -10000000 +1000
0000 -10000000 +10000000;64
P17N60:t2n63;0C
#-10000000 +10000000 -10000000;1E
P18N0:t1n32;0B
#+8 +4 +0 +0 +0 +0 +0 +0 +0 +0;1E
P18N10:t1n32;0C
#+0 +0 +0 +0 +0 +0 +0 +0 +0 +0 +0 1E
P18N20:t1n32;0C
#+0 +0 +0 +0 +0 +0 +0 +0 +0;1E
P18N30:t1n32;0C
#+0 +0:06
P19N0:t1n96;0B
#+4000 +4000 +4000 +4000 +4000 +4000 +4000 +4000 +4000 +4000;3C
P19N10:t1n96;0C
#+4000 +4000 +4000 +4000 +4000 +4000 +4000 +4000 +4000 +4000;3C
P19N20:t1n96;0C
#+4000 +4000 +4000 +4000 +4000 +4000 +4000 +4000 +4000 +4000;3C
P19N30:t1n96;0C
#+4000 +4000 +10 +10 +10 +10 +10 +10 +10;2C
P19N40:t1n96;0C
#+10 +10 +10 +10 +10 +10 +10 +10 +10;28
P19N50:t1n96;0C
#+10 +10 +10 +10 +10 +10 +10 +10 +10 +10;28
P19N60:t1n96;0C
#+10 +10 +10 +10 +5000 +5000 +5000 +5000 +5000;34
P19N70:t1n96;0C
#+5000 +5000 +5000 +5000 +5000 +5000 +5000 +5000 +5000 +5000;3C
P19N80:t1n96;0C
#+5000 +5000 +5000 +5000 +5000 +5000 +5000 +5000 +5000 +5000;3C
P19N90:t1n96;0C
#+5000 +5000 +5000 +5000 +5000 +5000;24
P20N0:t6n1;0A
#00000016;09
P21N0:t4n32;0B
```

Author:		NTTM	TOOLS	1
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#1475 1311 2622 3000 437 3000 266 3000 3000 3000;30 P21N10:t4n32;0C P21N20:t4n32;0C P21N30:t4n32;0C #3000 3000;0A P22N0:t5n32;0B #20 20 20 50 500 50 500 50 50 50;20 P22N10:t5n32;0C #50 50 50 50 50 50 50 50 50 50;1E P22N20:t5n32;0C #50 50 50 50 50 50 50 50 50 50;1E P22N30:t5n32;0C #50 50;06 P23N0:t4n32;0B #50000 45000 22500 8000 90000 8000 120000 490000 490000 8000;3C P23N10:t4n32;0C P23N20:t4n32;0C P23N30:t4n32;0C #8000 8000;0A P24N0:t5n65;0B #160 160 160 160 160 160 160 160 160 160;28 P24N10:t5n65;0C #160 160 160 160 160 160 160 160 160 160;28 P24N20:t5n65;0C #160 160 160 160 160 160 160 160 160 160;28 P24N30:t5n65;0C #160 160 250 250 250 250 250 250 250 250;28 P24N40:t5n65;0C #250 250 250 250 250 250 250 250 250 250;28 P24N50:t5n65;0C #250 250 250 250 250 250 250 250 250 250;28 P24N60:t5n65;0C #250 250 250 250 600;14 P25N0:t6n2;0A #00000047 FFFFFFF;12 P26N0:t0n32;0B #1 1 1 1 1 1 1 0 0 0;14 P26N10:t0n32;0C #0 0 0 0 0 0 0 0 0 0;14 P26N20:t0n32;0C #0 0 0 0 0 0 0 0 0 0;14 P26N30:t0n32;0C #0 0;04 P27N0:t0n32;0B #FF FF FF FF FF FF FF FF;1E P27N10:t0n32;0C #FF FF FF FF FF FF FF FF;1E P27N20:t0n32;0C #FF FF FF FF FF FF FF FF;1E P27N30:t0n32;0C #FF FF;06 P28N0:t6n1;0A

#0000000;09 P29N0:t1n11;0B #+25 +40 +40 +40 +40 +0 +10 +0 +0 +1000;27 P29N10:t1n11;0C #+0;03 P30N0:t4n32;0B P30N10:t4n32;0C P30N20:t4n32;0C P30N30:t4n32;0C #5000 5000;0A P31N0:t4n5;0A #50 10000 10000 2000 2000;19 P32N0:t5n64;0B #1500 2500 1500 3500 4000 4000 0 0 500 2500;2B P32N10:t5n64;0C #500 500 750 1000 1000 1000 1000 1000 500 500;2D P32N20:t5n64;0C P32N30:t5n64;0C P32N40:t5n64;0C #500 500 500 500 500 500 500 500 0 0;24 P32N50:t5n64;0C #0 0 0 0 0 0 20000 20000 20000 20000;24 P32N60:t5n64;0C #20000 20000 20000 20000;18 P33N0:t5n32;0B #0 0 0 0 0 0 0 0 0 0;14 P33N10:t5n32;0C #0 0 0 0 0 0 0 0 0;14 P33N20:t5n32;0C #0 0 0 0 0 0 0 0 0 0;14 P33N30:t5n32;0C #0 0;04 P34N0:t6n32;0B 00000 00000000;5A P34N10:t6n32;0C 00000 00000000;5A P34N20:t6n32;0C 00000 00000000;5A P34N30:t6n32;0C #0000000 00000000;12 P35N0:t5n32;0B #6 8006 23 8023 27 8027 120 8120 0 0;24 P35N10:t5n32;0C #0 0 0 0 0 0 0 0 0 0;14 P35N20:t5n32;0C #0 0 0 0 0 0 0 0 0 0;14 P35N30:t5n32;0C #0 0;04

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P36N0:t5n64;0B P49N10:t5n18;0C #900 9000 0 0 0 0 0 0;15 #1 1 1 1 1 1 1 1 1;14 P36N10:t5n64;0C P50N0:t5n2;0A #1 1 1 1 1 1 1 1 1;14 #4000 500;09 P36N20:t5n64;0C P51N0:t5n2;0A #1 1 1 1 1 1 1 1 1;14 #0 80;05 P36N30:t5n64;0C P52N0:t5n1;0A #1 1 1 1 1 1 1 1 1;14 #200;04 P36N40:t5n64;0C P53N0:t5n1;0A #1 1 1 1 1 1 1 1 1;14 #0;02 P55N0:t5n16;0B P36N50:t5n64;0C #1 1 1 1 1 1 1 1 1;14 #0 0 0 0 0 0 0 0 0 0;14 P36N60:t5n64;0C P55N10:t5n16;0C #1 1 1 1;08 #0 0 0 0 0;0C P37N0:t0n9;0A P56N0:t5n8;0A #16 2 3 16 6 15 4 5 1D;16 #30 10 60 60 60 60 60 60;18 P38N0:t6n40;0B P57N0:t5n32;0B #0000000D 00000018 0000001B 00000019 0000000A 0000000D 00000008 001B1C43 000 #0 0 0 0 0 0 0 0 0 0;14 00009 001B1C44;5A P57N10:t5n32;0C P38N10:t6n40;0C #0 0 0 0 0 0 0 0 0 0;14 #00000016 001B1C41 00000012 001B1C42 0000000E 00000001 0000000F 0000007F 000 P57N20:t5n32;0C 0007F 0000007F;5A #0 0 0 0 0 0 0 0 0 0;14 P38N20:t6n40;0C P57N30:t5n32;0C #0 0;04 00000 00000000;5A P58N0:t5n3;0A P38N30:t6n40;0C #1000 20000 512;0F P59N0:t0n4;0A 00000 00000000;5A #1 1 0 10;09 P39N0:t4n3;0A P62N0:t1n8;0A #0 1000 0;09 #+10 +100 +10 +100 +10 +100 +10 +100;24 P40N0:t4n4;0A P63N0:t1n24;0B #4000 4000 4000 4000;14 #+200 +6000 +10 +200 +6000 +10 +200 +6000 +10 +200;32 P41N0:t0n4;0A P63N10: t1n24;0C #0 0 0 0;08 #+6000 +10 +200 +6000 +10 +200 +6000 +10 +200 +6000;33 P42N0:t4n4;0A P63N20:t1n24;0C #0 0 0 0;08 #+10 +200 +6000 +10;13 P43N0:t5n8;0A P64N0:t6n1;0A #200 200 200 200 0 0 0;18 #0000000;09 P44N0:t5n4;0A P65N0:t4n32;0B #10 10 10 10;0C #0 0 0 0 0 0 0 0 0 0;14 P45N0:t5n4;0A P65N10:t4n32;0C #1000 1000 1000 1000;14 #0 0 0 0 0 0 0 0 0 0;14 P46N0:t5n18;0B P65N20:t4n32;0C #0 50000 0 0 0 0 0 0 0;18 #0 0 0 0 0 0 0 0 0 0;14 P46N10:t5n18;0C P65N30:t4n32;0C #0 0 0 0 0 0 0 0;10 #0 0;04 P47N0:t5n18;0B P66N0:t5n32;0B #0 8191 1 10 10 100 100 1000 500 5000;25 #30 30 30 60 60 60 60 60 60 60;1E P47N10:t5n18;0C P66N10:t5n32;0C #900 9000 0 0 0 0 0;15 #60 60 60 60 60 60 60 60 60;1E P48N0:t5n18;0B P66N20:t5n32;0C #0 8191 1 10 10 100 100 1000 500 5000;25 #60 60 60 60 60 60 60 60 60;1E P48N10:t5n18;0C P66N30:t5n32;0C #900 9000 0 0 0 0 0;15 #60 60;06 P49N0:t5n18;0B P67N0:t5n24;0B #0 8191 1 10 10 100 100 1000 500 5000;25 #0 120 0 120 0 120 0 120 0 120;1E

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P67N10:t5n24;0C #0 120 0 120 0 120 50 100 50 100;20 P67N20:t5n24;0C #50 100 50 100;0E P70N0:t6n9;0A FFFFFFFF;51 P71N0:t0n32;0B #FF FF FF FF FF FF FF FF;1E P71N10:t0n32;0C #FF FF FF FF FF FF FF FF;1E P71N20:t0n32;0C #FF FF FF FF FF FF FF FF;1E P71N30:t0n32;0C #FF FF;06 P72N0:t6n4;0A #0000000 00000000 00000000 00000000;24 P73N0:t5n36;0B P73N10:t5n36;0C P73N20:t5n36;0C P73N30:t5n36;0C #3000 3000 3000 3000 3000 3000;1E P74N0:t4n36;0B #100000 100000 100000 100000 100000 100000 100000 100000 100000 100000;46 P74N10:t4n36;0C #100000 100000 100000 100000 100000 100000 100000 100000 100000 100000;46 P74N20:t4n36;0C #100000 100000 100000 100000 100000 100000 100000 100000 100000 100000;46 P74N30:t4n36;0C #100000 100000 100000 100000 100000 100000;2A P75N0:t4n36;0B #10000 10000 10000 10000 10000 10000 10000 10000 10000 10000;3C P75N10:t4n36;0C #10000 10000 10000 10000 10000 10000 10000 10000 10000 10000;3C P75N20:t4n36;0C #10000 10000 10000 10000 10000 10000 10000 10000 10000 10000;3C P75N30:t4n36;0C #10000 10000 10000 10000 10000 10000;24 P76N0:t0n36;0B #0 0 0 0 0 0 0 0 0 0;14 P76N10:t0n36;0C #0 0 0 0 0 0 0 0 0 0;14 P76N20:t0n36;0C #0 0 0 0 0 0 0 0 0 0;14 P76N30:t0n36;0C #0 0 0 0 0;0C P77N0:t5n36;0B #0 0 0 0 0 0 0 0 0;14 P77N10:t5n36;0C #0 0 0 0 0 0 0 0 0 0;14 P77N20:t5n36;0C #0 0 0 0 0 0 0 0 0 0;14 P77N30:t5n36;0C

#0 0 0 0 0;0C P78N0:t5n36;0B #0 0 0 0 0 0 0 0 0 0;14 P78N10:t5n36;0C #0 0 0 0 0 0 0 0 0 0;14 P78N20:t5n36;0C #0 0 0 0 0 0 0 0 0 0;14 P78N30:t5n36;0C #0 0 0 0 0;0C P79N0:t1n36;0B #-1 -1 -1 -1 -1 -1 -1 -1 -1;1E P79N10:t1n36;0C #-1 -1 -1 -1 -1 -1 -1 -1 -1;1E P79N20:t1n36;0C #-1 -1 -1 -1 -1 -1 -1 -1 -1;1E P79N30:t1n36;0C #-1 -1 -1 -1 -1;12 P80N0:t0n2;0A #93 2A;06 P84N0:t5n1;0A #0;02 P85N0:t0n32;0B #FF FF FF FF FF FF FF FF;1E P85N10:t0n32;0C #FF FF FF FF FF FF FF FF;1E P85N20:t0n32;0C #FF FF FF FF FF FF FF FF;1E P85N30:t0n32;0C #FF FF;06 P86N0:t6n1;0A #0000000;09 P87N0:t1n32;0B #+0 +0 +0 +0 +0 +0 +0 +0 +0;1E P87N10:t1n32;0C #+0 +0 +0 +0 +0 +0 +0 +0 +0;1E P87N20:t1n32;0C #+0 +0 +0 +0 +0 +0 +0 +0 +0 +0;1E P87N30:t1n32;0C #+0 +0;06 P88N0:t5n36;0B #0 0 0 0 0 0 0 0 0 0;14 P88N10:t5n36;0C #0 0 0 0 0 0 0 0 0 0;14 P88N20:t5n36;0C #0 0 0 0 0 0 0 0 0 0;14 P88N30:t5n36;0C #0 0 0 0 0;0C P89N0:t5n72;0B #0 0 0 0 0 0 0 0 0 0;14 P89N10:t5n72;0C #0 0 0 0 0 0 0 0 0 0;14 P89N20:t5n72;0C #0 0 0 0 0 0 0 0 0 0;14 P89N30:t5n72;0C #0 0 0 0 0 0 0 0 0 0;14 P89N40:t5n72;0C

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#0 0 0 0 0 0 0 0 0;14 P93N50:t5n72;0C #0 0 0 0 0 0 0 0 0 0;14 P93N60:t5n72;0C #0 0 0 0 0 0 0 0 0 0;14 P93N70: +5n72;0C #0 0;04 P94N0:t5n32;0B #0 0 0 0 0 0 0 0 0 0;14 P94N10:t5n32;0C #0 0 0 0 0 0 0 0 0 0;14 P94N20:t5n32;0C #0 0 0 0 0 0 0 0 0 0;14 P94N30:t5n32;0C #0 0;04 P95N0:t5n3;0A #40 0 0;07 P96N0:t8n5;0A #F1.A;05 P97N0:t0n2;0A #1 1;04 P98N0:t0n1;0A #1;02 P99N0:t5n4;0A #10 0 1 0;09 P100N0:t0n8;0B #FF FF O FF FF FF FF;17 P101N0:t7n10;0C #0100 00FF 0003 0001 0200 7FFF 4000 1000 7FFF 7FFF;32 P102N0:t5n8;0B #20 64 2000 3 10000 128 60000 10000;23 P103N0:t0n21;0C #F 49 4E 55 4D 0 0 0 0;18 P103N10:t0n21;0D #0 0 0 0 0 0 0 0 FF FF;16 P103N20:t0n21;0D #1;02 P104N0:t0n33;0C #2 0 1 FF FF FF FF FF FF;1B P104N10:t0n33;0D #FF FF FF FF FF FF FF FF;1E P104N20:t0n33;0D #FF FF FF FF FF FF FF FF;1E P104N30:t0n33;0D #FF FF FF;09 P105N0:t0n17;0C #2 0 1 FF FF FF FF FF FF;1B P105N10:t0n17;0D #FF FF FF FF FF FF;15 P106N0:t0n17;0C #4 0 0 0 1 FF FF FF FF;19 P106N10:t0n17;0D #FF FF FF FF FF FF;15 P107N0:t8n17;0C #MMSSRV;07 P110N0:t0n8;0B

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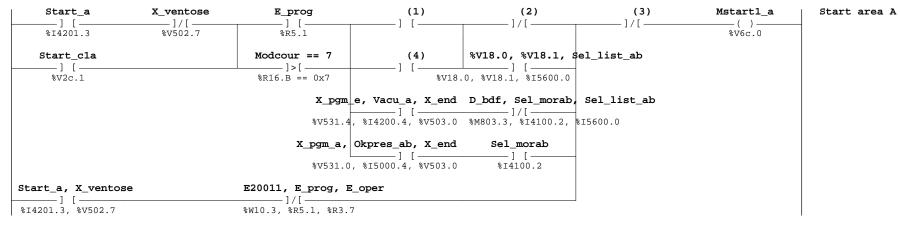
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P111N0:t.0n10;0C
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P112N0:t0n3;0B
#0 55 1;07
P113N0:t9n2;0B
#0.000000E+00 0.000000E+00;1A
P114N0:t5n3;0B
#10 10 10000;0C
P115N0:t0n2;0B
#D 1;04
P116N0:t4n36;0C
#0 0 0 0 0 0 0 0 0 0;14
P116N10:t4n36;0D
#0 0 0 0 0 0 0 0 0;14
P116N20:t4n36;0D
#0 0 0 0 0 0 0 0 0 0;14
P116N30:t4n36;0D
#0 0 0 0 0;0C
P117N0:t4n36;0C
#0 0 0 0 0 0 0 0 0;14
P117N10:t4n36;0D
#0 0 0 0 0 0 0 0 0 0;14
P117N20:t4n36;0D
#0 0 0 0 0 0 0 0 0 0;14
P117N30:t4n36;0D
#0 0 0 0 0;0C
P118N0:t4n36;0C
#0 0 0 0 0 0 0 0 0 0;14
P118N10:t4n36;0D
#0 0 0 0 0 0 0 0 0;14
P118N20:t4n36;0D
#0 0 0 0 0 0 0 0 0;14
P118N30:t4n36;0D
#0 0 0 0 0;0C
P119N0:t4n36;0C
#0 0 0 0 0 0 0 0 0;14
P119N10:t4n36;0D
#0 0 0 0 0 0 0 0 0 0;14
P119N20:t4n36;0D
#0 0 0 0 0 0 0 0 0 0;14
P119N30:t4n36;0D
#0 0 0 0 0;0C
P120N0:t1n72;0C
#+100 +30 +100 +30 +100 +30 +100 +30 +100 +30;2D
P120N10:t1n72;0D
#+100 +30 +100 +30 +100 +30 +100 +30 +100 +30;2D
P120N20:t1n72;0D
#+100 +30 +100 +30 +100 +30 +100 +30 +100 +30;2D
P120N30:t1n72;0D
#+100 +30 +100 +30 +100 +30 +100 +30 +100 +30;2D
P120N40:t1n72;0D
#+100 +30 +100 +30 +100 +30 +100 +30 +100 +30;2D
P120N50:t1n72;0D
#+100 +30 +100 +30 +100 +30 +100 +30 +100 +30;2D
P120N60:t1n72;0D
```

```
#+100 +30 +100 +30 +100 +30 +100 +30 +100 +30;2D
P120N70:t1n72;0D
#+100 +30;09
P121N0:t5n72;0C
#0 0 0 0 0 0 0 0 0 0;14
P121N10:t5n72;0D
#0 0 0 0 0 0 0 0 0 0;14
P121N20:t5n72;0D
#0 0 0 0 0 0 0 0 0 0;14
P121N30:t5n72;0D
#0 0 0 0 0 0 0 0 0 0;14
P121N40:t5n72;0D
#0 0 0 0 0 0 0 0 0 0;14
P121N50:t5n72;0D
#0 0 0 0 0 0 0 0 0 0;14
P121N60:t5n72;0D
#0 0 0 0 0 0 0 0 0 0;14
P121N70:t5n72;0D
#0 0;04
P122N0:t5n72;0C
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P122N10:t5n72;0D
#0 0 0 0 0 0 0 0 0 0;14
P122N20:t5n72;0D
#0 0 0 0 0 0 0 0 0 0;14
P122N30:t5n72;0D
#0 0 0 0 0 0 0 0 0 0;14
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#0 0 0 0 0 0 0 0 0 0;14
P122N60:t5n72;0D
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#0 0;04
P123N0:t1n3;0B
#+1 +4 +0;09
P124N0:t8n16;0C
#192.168.0.254;0E
P125N0:t8n16;0C
#255.255.255.0;0E
P126N0:t8n16;0C
#0.0.0.0;08
P127N0:t8n16;0C
#0.0.0.0;08
;01
```

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| Nesting | goto(START_N) | (T) |

01 Label: Step: Start area



- (1) %V531.0, %I4200.4, %V503.0 : X_pgm_a, Vacu_a, X_end
- (2) %I4100.2, %I5600.0 : Sel_morab, Sel_list_ab

00 Label:

Step:

- (3) %V503.4, %V5b4.0, %V5b4.4, %Vf.6, %I4c00.0, %V27.5, %I4l01.3 : X_stat_gen, X_exec_a, X_exec_e, Pez_sblo, Auto_man, Wait_start, Setting
- (4) %V531.4, %I4b00.0, %V503.0, %M803.3 : X_pgm_e, Vacu_e, X_end, D_bdf

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Verifica se tappeti / bumpers o nesting

02 Label: Start area Step: Start_b X_ventose (1) (2) Mstart1_b Start area B E prog (3) —][— _]/[_ -][— — () – %I4201.4 %V502.7 %R5.1 %V6c.1 Start c1b Modcour == 7 (4)%V18.2, %V18.3, \$el_list_ab —][— ___]>[___ _____1 [___ %V2c.2 %R16.B == 0x7 %V18.2, %V18.3, %I5600.0 X_pgm_f, Vacu_bi, X_end D_bdf, Sel_morab, Sel_list_ab ____][_____]/[___ %V531.5, %I4200.5, %V503.0 %M803.3, %I4100.2, %I5600.0 X_pgm_b, Okpres_ab, X_end Sel_morab ___1 [___ __1 [_ %V531.1, %I5000.4, %V503.0 %I4100.2 Start_b, X_ventose E20011, E_prog, E_oper ____] [__ —__]/[— %I4201.4, %V502.7 %W10.3, %R5.1, %R3.7 (1) %V531.1, %I4200.5, %V503.0 : X_pgm_b, Vacu_bi, X_end (2) %I4100.2, %I5600.0 : Sel_morab, Sel_list_ab

(3) %V503.4, %V5b4.1, %V5b4.5, %Vf.6, %I4c00.0, %V27.5, %I4l01.3 : X_stat_gen, X_exec_b, X_exec_f, Pez_sblo, Auto_man, Wait_start, Setting

(4) %V531.5, %I4b00.1, %V503.0, %M803.3 : X_pqm_f, Vacu_f, X_end, D_bdf

03 Label: Step: Start area

Start_c] [%I4201.5	X_ventose]/[%V502.7	E_prog][(1)] []/[(3)]/[Mstart1_c ()	Start area C
Start_c1c] [Modcour == 7]>[%R16.B == 0x7	(4)][%V18.4, %V18.5, \$ [.4, %V18.5, %I5600.1	el_list_cd		
				D_bdf, Sel_morcd,]/[%M803.3, %I4100.3,			
			Okpres_cd, X_end][%I5000.5, %V503.0				
Start_c, X_ventose] [E20011, E_prog, E_]/[oper				

- (1) %V531.2, %I4200.6, %V503.0 : X_pgm_c, Vacu_cl, X_end
- (2) %I4100.3, %I5600.1 : Sel_morcd, Sel_list_cd
- (3) %V503.4, %V5b4.2, %V5b4.6, %Vf.6, %I4c00.0, %V27.5, %I4l01.3 : X_stat_gen, X_exec_c, X_exec_g, Pez_sblo, Auto_man, Wait_start, Setting
- (4) %V531.6, %I4b00.2, %V503.0, %M803.3 : X_pgm_g, Vacu_g, X_end, D_bdf

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04 Label: Start area Step: Start_d X_ventose (1) (2) Mstart1_d Start area D E prog (3) —][— _]/[_ _] [— — () – %I4201.6 %V502.7 %R5.1 %V6c.3 Start cld Modcour == 7 (4)%V18.6, %V18.7, \$el_list_cd —] [— ___]>[___ ____1 [___ %V2c.4 %R16.B == 0x7 %V18.6, %V18.7, %I5600.1 X_pgm_h, Vacu_d, X_end D_bdf, Sel_morcd, Sel_list_cd ____][_____]/[___ %V531.7, %I4200.7, %V503.0 %M803.3, %I4100.3, %I5600.1 X_pgm_d, Okpres_cd, X_end Sel_morcd ____1 [___ __1 [_ %V531.3, %I5000.5, %V503.0 %I4100.3 Start_d, X_ventose E20011, E_prog, E_oper ____] [___ ——]/[— %I4201.6, %V502.7 %W10.3, %R5.1, %R3.7 (1) %V531.3, %I4200.7, %V503.0 : X_pqm_d, Vacu_d, X_end (2) %I4100.3, %I5600.1 : Sel_morcd, Sel_list_cd (3) %V503.4, %V5b4.3, %V5b4.7, %Vf.6, %I4c00.0, %V27.5, %I4l01.3 : X_stat_gen, X_exec_d, X_exec_h, Pez_sblo, Auto_man, Wait_start, Setting (4) %V531.7, %I4b00.3, %V503.0, %M803.3 : X_pqm_h, Vacu_h, X_end, D_bdf 05 Label: Step: Start area A (1) X modo sim Mstart1 a (2) Mstart a Mem. start area A — 1/[— —(S)-·]/[— %V503.1 %V6c.0 %V6.3 Piano_tv Evolution

(1) %M800.5, %I4000.2 : Piano_tv, V_bl_ab

%M800.5

X_ventose ___][___ %V502.7

(2) %V4034.0, %V4034.4 : App_setupa, Change_prg_a

%M803.1

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Company:

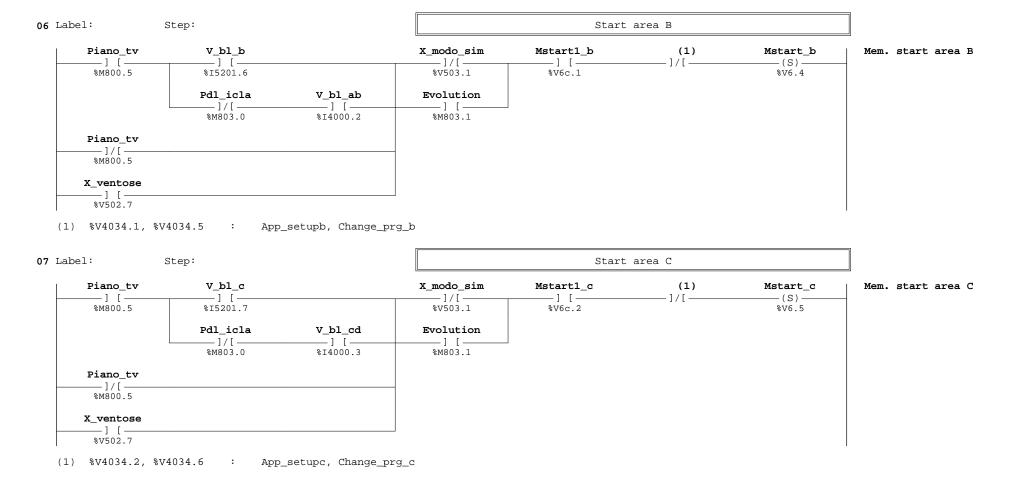
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08 Label: Step: Start area D (1) X_modo_sim Mstart1_d Mstart_d (2) Mem. start area D —(S)-—] / [— -][-%V503.1 %V6c.3 %V6.6 Piano tv Evolution —] / [— _1 [_ %M800.5 %M803.1 X_ventose —][— %V502.7 goto(START1) — (T)— (1) %M800.5, %I4000.3 : Piano_tv, V_bl_cd (2) %V4034.3, %V4034.7 : App_setupd, Change_prg_d 09 Label: START_N Step: Start area con nesting Start a X ventose E prog (1) Sel rw (2) Mstart1 a Start area A —] /[— __] [_ —] / [— —][— — () – %I4201.3 %V502.7 %R5.1 %I4100.6 %V6c.0 Modcour == 7 Start_cla X_pgm_e, Vacu_a, X_end ___ 1> [___ —][—

(1) %V531.0, %I4200.4, %V503.0 : X_pgm_a, Vacu_a, X_end

(2) %V503.4, %V5b4.0, %V5b4.4, %Vf.6, %V27.5, %I4101.3 : X_stat_gen, X_exec_e, Pez_sblo, Wait_start, Setting

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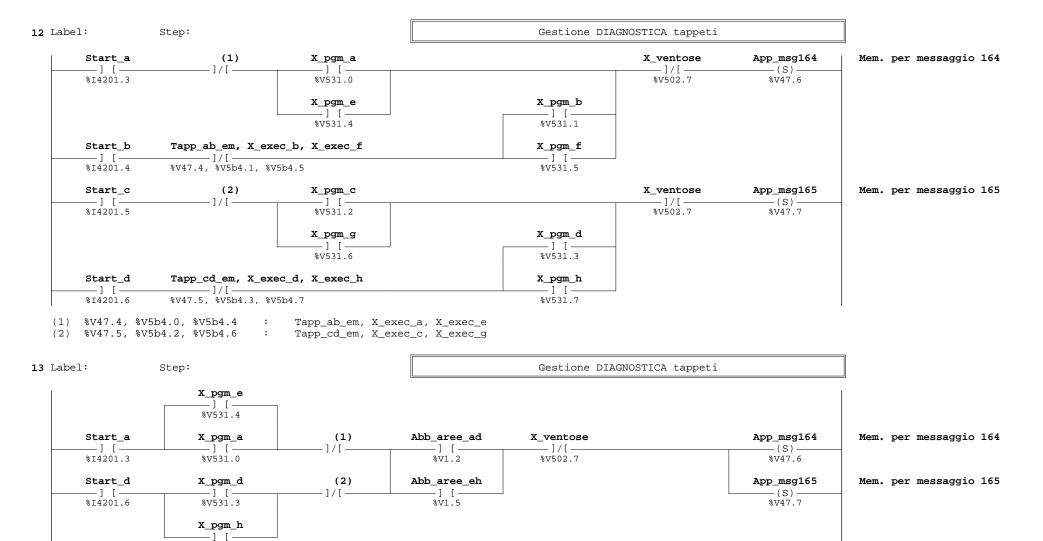
10 Label: Step: Start area con nesting Start_d X_ventose (1) Sel_rw Mstart1_d Start area D E prog (2) -]/[_]/[_ — () – %V6c.3 %I4201.6 %V502.7 %R5.1 %I4100.6 Modcour == 7 Start cld X_pgm_h, Vacu_d, X_end —][— ___]>[___ _1 [_ %V2c.4 %R16.B == 0x7 %V531.7, %I4200.7, %V503.0 Start_c, X_ventose E20011, E_prog, E_oper —] / [— —][— %W10.3, %R5.1, %R3.7 %I4201.5, %V502.7 goto(START1) —(T)-(1) %V531.3, %I4200.7, %V503.0 : X_pgm_d, Vacu_d, X_end (2) %V503.4, %V5b4.3, %V5b4.7, %Vf.6, %V27.5, %I4101.3 : X_stat_gen, X_exec_d, X_exec_h, Pez_sblo, Wait_start, Setting Step: 11 Label: NESTING - MORSETTI Nesting Puls va Tapp_ab_em Tappeto area AB in emergenza —(R)-%M800.6 %V47.4 %I4200.0 Puls_vd Abb_aree_ad _] [_ %I4200.3 %V1.2 Puls vd Tapp_cd_em Tappeto area CD in emergenza -(R)-%I4200.3 %V47.5 Puls va Abb_aree_ad — 1 [-][-%14200.0 %V1.2 Sel morab Bpres ab Tapp ab em Tappeto area AB in emergenza — 1 [— —(R)-%I4100.2 %I5000.1 %V47.4 Tappeto area CD in emergenza Sel morcd Bpres cd Tapp_cd_em —][— -][-—(R)-

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%V47.5

%I5000.3

%I4100.3



(1) %V47.4, %V5b4.0, %V5b4.4 : Tapp_ab_em, X_exec_a, X_exec_e (2) %V47.5, %V5b4.3, %V5b4.7 : Tapp_cd_em, X_exec_d, X_exec_h

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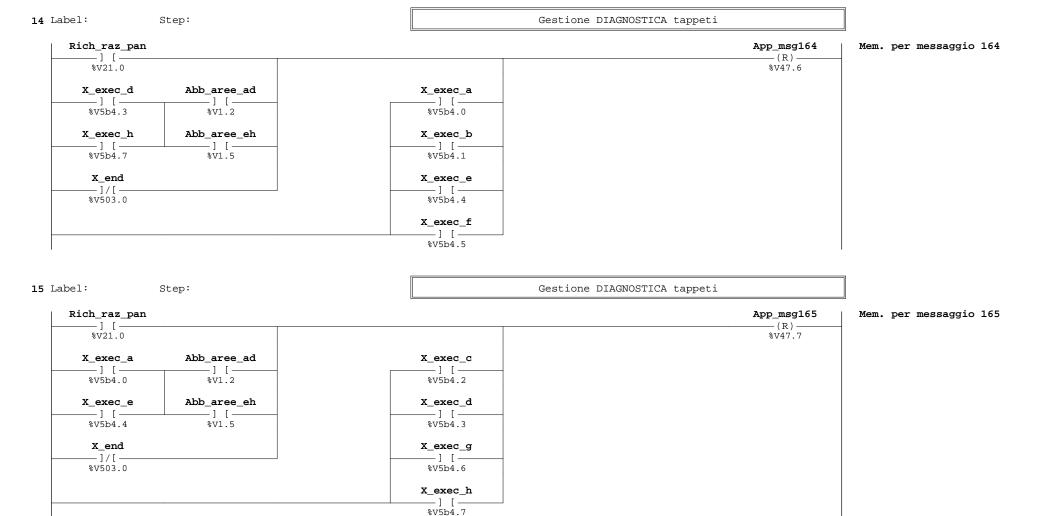
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%V531.7



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16 Label: Step: Fronte F_T su pulsanti di start aree per gestione tappeti

Start_a	V200_4	Ft_start_a	Start area A
%I4201.3	F_T	%V6c.4	
Start_b	V200_5	Ft_start_b	Start area B
%I4201.4	F_T	%V6c.5	
Start_c	V200_6	Ft_start_c	Start area C
%I4201.5	F_T	%V6c.6	
Start_d	V200_7	Ff_start_d	Start area D
%I4201.6	F_T	- () %V6c.7	
Nesting		goto(START_N8)	
₩800.6		- (T)	

17 Label: Step: Start area con tappeti

] [X_ventose]/[E_prog]/[(4)]/[Mstart1_a () %V6c.0	Start area A
Start_cla 		Modcour == 7 >[%R16.B == 0x7	(5) 	%V18.0, %V18.1, s] [0, %V18.1, %I5600.0	el_list_ab		
] [D_bdf, Sel_morab,			
			Okpres_ab, X_end][, %15000.4, %V503.0	Sel_morab			
Ft_start_a, X_vento	se	E20011, E_prog, E]/[%W10.3, %R5.1, %R3.7			(6)]/[

- (1) %V6c.4, %V47.4 : Ft_start_a, Tapp_ab_em
- (2) %V531.0, %I4200.4, %V503.0 : X_pgm_a, Vacu_a, X_end
- (3) %I4100.2, %I5600.0 : Sel_morab, Sel_list_ab

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- (4) %V503.4, %V5b4.0, %V5b4.4, %Vf.6, %I4c00.0, %V27.5, %I4l01.3 : X_stat_gen, X_exec_a, X_exec_e, Pez_sblo, Auto_man, Wait_start, Setting
- (5) %V531.4, %I4b00.0, %V503.0, %M803.3 : X_pgm_e, Vacu_e, X_end, D_bdf
- (6) %V503.4, %V5b4.0, %V5b4.4, %Vf.6, %I4c00.0, %V27.5 : X_stat_gen, X_exec_a, X_exec_e, Pez_sblo, Auto_man, Wait_start

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18 Label: Step: Start area con tappeti (1) X_ventose (2) (3) Mstart1 b Start area B E prog (4) —] / [— _][_ — () – %V502.7 %R5.1 %V6c.1 Start c1b Modcour == 7 (5) %V18.2, %V18.3, \$el_list_ab ____1>[____ _____1 [____ —] [— -][— %V2c.2 %R16.B == 0x7 %V18.2, %V18.3, %I5600.0 X pgm f, Vacu bi, X end D bdf, Sel morab, Sel list ab %V531.5, %I4200.5, %V503.0 %M803.3, %I4100.2, %I5600.0 X pgm b, Okpres ab, X end Sel morab ____] [____ ___1 [__ %V531.1, %I5000.4, %V503.0 %I4100.2 Ft_start_b, X_ventose E20011, E_prog, E_oper (6) _____1 [_____ _____1/[___ -1/[-%V6c.5, %V502.7 %W10.3, %R5.1, %R3.7 (1) %V6c.5, %V47.4 : Ft_start_b, Tapp_ab_em (2) %V531.1, %I4200.5, %V503.0 : X pgm b, Vacu bi, X end (3) %I4100.2, %I5600.0 : Sel morab, Sel list ab (4) %V503.4, %V5b4.1, %V5b4.5, %Vf.6, %I4c00.0, %V27.5, %I4101.3 : X_stat_gen, X_exec_b, X_exec_f, Pez_sblo, Auto_man, Wait_start, Setting (5) %V531.5, %I4b00.1, %V503.0, %M803.3 : X_pqm_f, Vacu_f, X_end, D_bdf (6) %V503.4, %V5b4.1, %V5b4.5, %Vf.6, %I4c00.0, %V27.5 : X_stat_gen, X_exec_b, X_exec_f, Pez_sblo, Auto_man, Wait_start **19** Label: Step: Start area con tappeti (2) (1) X_ventose (3) (4)Mstart1_c Start area C E prog — 1 / [— — 1 [— -1 [— – 1 / I — — () – %V502.7 %R5.1 %V6c.2 Start clc Modcour == 7 (5) %V18.4, %V18.5, \$el list cd _____1 [____ — 1 [— ____] > [____ —][— %V18.4, %V18.5, %I5600.1 %V2c.3 R16.B == 0x7X_pgm_g, Vacu_cl, X_end D_bdf, Sel_morcd, Sel_list_cd %V531.6, %I4200.6, %V503.0 %M803.3, %I4100.3, %I5600.1 X_pgm_c, Okpres_cd, X_end Sel morcd ____][____ — 1 [— %V531.2, %I5000.5, %V503.0 %I4100.3 Ft_start_c, X_ventose E20011, E_prog, E_oper (6) ___] [____ _____]/[___ %V6c.6, %V502.7 %W10.3, %R5.1, %R3.7

- (1) %V6c.6, %V47.5 : Ft_start_c, Tapp_cd_em
- (2) %V531.2, %I4200.6, %V503.0 : X_pgm_c, Vacu_cl, X_end
- (3) %I4100.3, %I5600.1 : Sel_morcd, Sel_list_cd
- (4) %V503.4, %V5b4.2, %V5b4.6, %Vf.6, %I4c00.0, %V27.5, %I4101.3 : X_stat_gen, X_exec_c, X_exec_g, Pez_sblo, Auto_man, Wait_start, Setting
- (5) %V531.6, %I4b00.2, %V503.0, %M803.3 : X_pgm_g, Vacu_g, X_end, D_bdf
- (6) %V503.4, %V5b4.2, %V5b4.6, %Vf.6, %I4c00.0, %V27.5 : X_stat_gen, X_exec_g, Pez_sblo, Auto_man, Wait_start

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20 Label: Step: Start area con tappeti (1) X_ventose (2) (3) Mstart1 d Start area D E prog (4) —] / [— —] [— — () – %V502.7 %R5.1 %V6c.3 Start cld Modcour == 7 (5) %V18.6, %V18.7, \$el_list_cd ____1>[____ _____1 [____ —] [— -][— %V18.6, %V18.7, %I5600.1 %V2c.4 %R16.B == 0x7 X_pgm h, Vacu_d, X_end D_bdf, Sel_morcd, Sel_list_cd %V531.7, %I4200.7, %V503.0 %M803.3, %I4100.3, %I5600.1 X_pgm_d, Okpres_cd, X_end Sel morcd ____] [____ — 1 [— %V531.3, %I5000.5, %V503.0 %I4100.3 Ff_start_d, X_ventose (6) E20011, E_prog, E_oper ____1 [____ ____]/[___ -1/[-%V6c.7, %V502.7 %W10.3, %R5.1, %R3.7 goto(MSTART) — (Т) — (1) %V6c.7, %V47.5 : Ff_start_d, Tapp_cd_em (2) %V531.3, %I4200.7, %V503.0 : X pqm d, Vacu d, X end (3) %I4100.3, %I5600.1 : Sel_morcd, Sel_list_cd (4) %V503.4, %V5b4.3, %V5b4.7, %Vf.6, %I4c00.0, %V27.5, %I4101.3 : X_stat_gen, X_exec_d, X_exec_h, Pez_sblo, Auto_man, Wait_start, Setting (5) %V531.7, %I4b00.3, %V503.0, %M803.3 : X_pgm_h, Vacu_h, X_end, D_bdf (6) %V503.4, %V5b4.3, %V5b4.7, %Vf.6, %I4c00.0, %V27.5 : X stat gen, X exec d, X exec h, Pez sblo, Auto man, Wait start 21 Label: START N8 Step: Start area con tappeti e nesting (1) X ventose E proq (2) Sel rw (3) Mstart1 a Start area A — 1 / I — _ 1 「 _ -1 [— 1/[— _()_ %V6c.0 %V502.7 %R5.1 %I4100.6 Start cla Modcour == 7 X_pgm_e, Vacu_a, X_end —] [— ____]>[____ ____][____ %V2c.1 R16.B == 0x7%V531.4, %I4200.4, %V503.0 X_pgm_a, X_end, Vacu_cl Sel rw — 1 [—

%I4100.6

(1) %V6c.4, %V47.4 : Ft_start_a, Tapp_ab_em

Ft_start_a, X_ventose

____] [____

%V6c.4, %V502.7

- (2) %V531.0, %I4200.4, %V503.0 : X_pgm_a, Vacu_a, X_end
- (3) %V503.4, %V5b4.0, %V5b4.4, %Vf.6, %V27.5, %I4101.3 : X_stat_gen, X_exec_a, X_exec_e, Pez_sblo, Wait_start, Setting

%V531.0, %V503.0, %I4200.6

(4) %V503.4, %V5b4.0, %V5b4.4, %Vf.6, %V27.5 : X_stat_gen, X_exec_a, X_exec_e, Pez_sblo, Wait_start

E20011, E_prog, E_oper

____]/[___

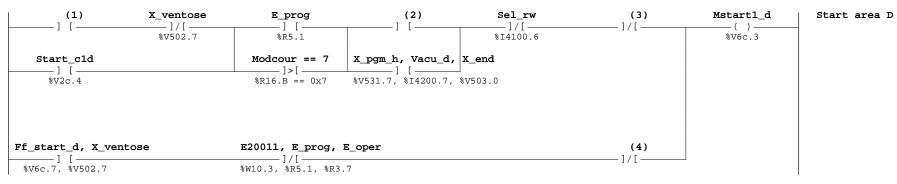
%W10.3, %R5.1, %R3.7

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(4)

22 Label: Step:

Start area con tappeti e nesting



(1) %V6c.7, %V47.5 : Ff_start_d, Tapp_cd_em

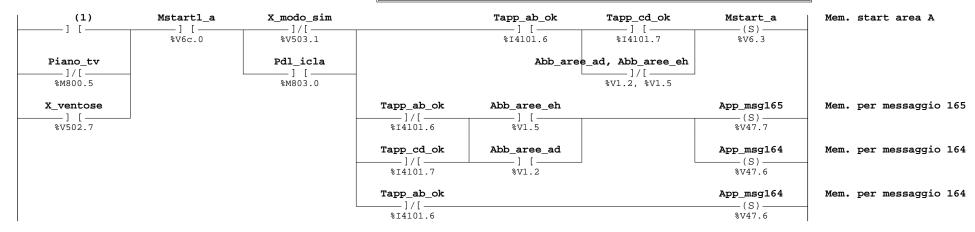
(2) %V531.3, %I4200.7, %V503.0 : X_pqm_d, Vacu_d, X_end

(3) %V503.4, %V5b4.3, %V5b4.7, %Vf.6, %V27.5, %I4101.3 : X_stat_gen, X_exec_d, X_exec_h, Pez_sblo, Wait_start, Setting

(4) %V503.4, %V5b4.3, %V5b4.7, %Vf.6, %V27.5 : X_stat_gen, X_exec_d, X_exec_h, Pez_sblo, Wait_start

23 Label: MSTART Step:

Gestione start area A



(1) %M800.5, %I4000.2 : Piano_tv, V_bl_ab

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24 Label:

Step:

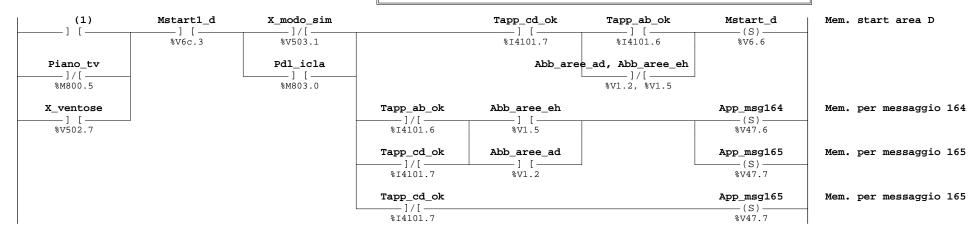
Gestione start aree B e C



(1) %M800.5, %I4000.2 : Piano_tv, V_bl_ab (2) %M800.5, %I4000.3 : Piano tv, V bl cd

25 Label: Step:

Gestione start area D



(1) %M800.5, %I4000.3 : Piano_tv, V_bl_cd

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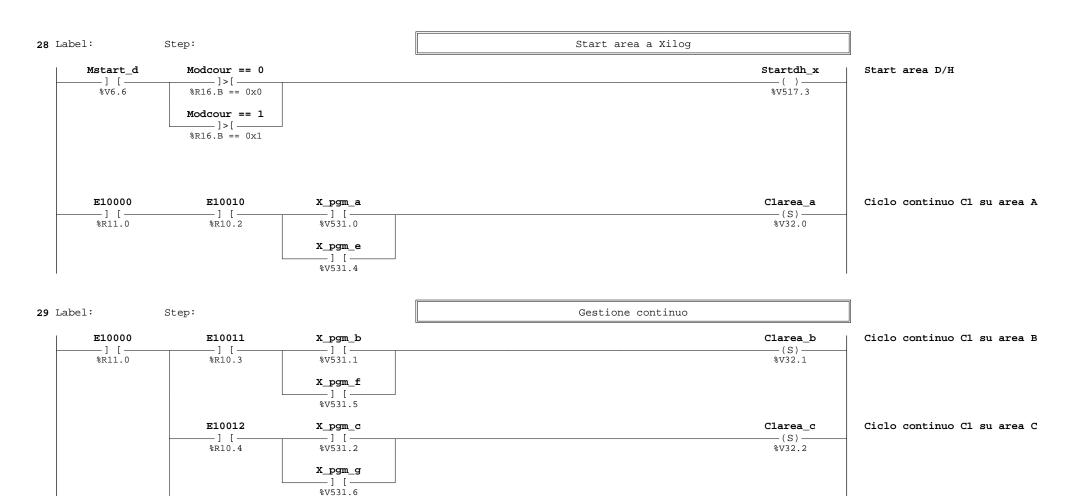


X_stat_gen	V201_0		Mstart_a	Mem. start area A
%V503.4	R_T- %V201.0		(R) %V6.3	
X_end 			Mstart_b (R) %V6.4	Mem. start area B
Gen_em_cn] [Mstart_c (R) %V6.5	Mem. start area C
M_rip1_st4] [M_rip3_st4] [Mstart_d (R) %V6.6	Mem. start area D
M_rip2_st4 		M_rip4_st4] [

27 Label: Step: Start area a Xilog

Mstart_a	Modcour == 0	Startae_x	Start area A/E
%V6.3	%R16.B == 0x0	*V517.0	
	Modcour == 1		
	%R16.B == 0x1		
Mstart_b	Modcour == 0	Startbf_x	Start area B/F
%V6.4	%R16.B == 0x0	*V517.1	
	Modcour == 1		
	%R16.B == 0x1		
Mstart_c	Modcour == 0	Startcg_x	Start area C/G
%V6.5	%R16.B == 0x0	%v517.2	
	Modcour == 1		
	%R16.B == 0x1		

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Clarea_d

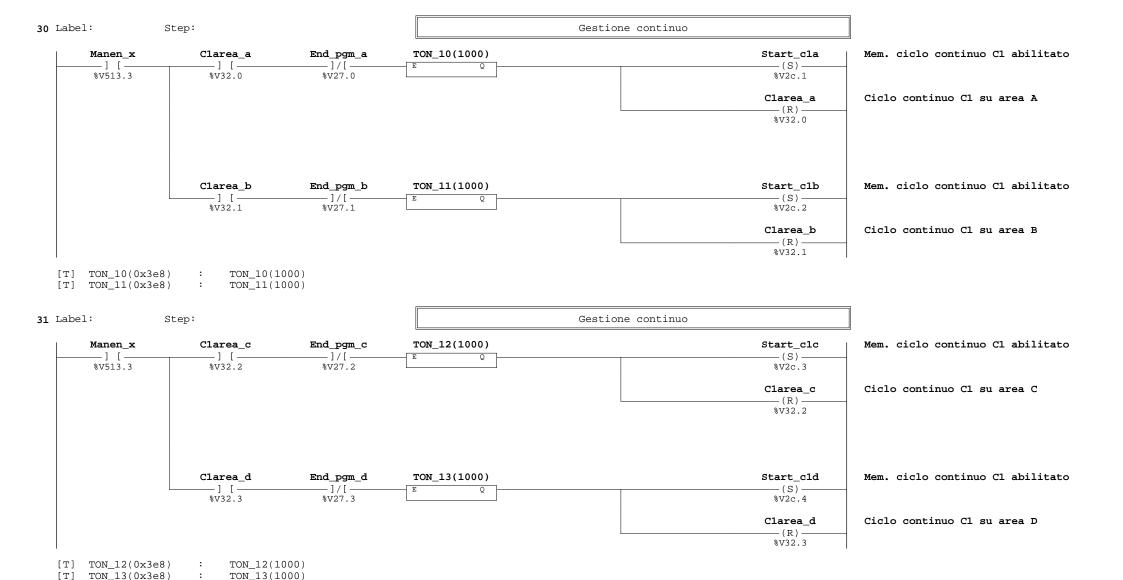
—(S)— %V32.3 Ciclo continuo C1 su area D

E10013

%R10.5

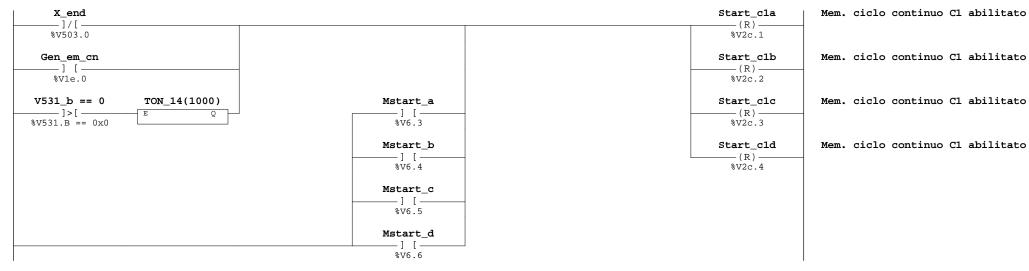
X_pgm_d

%V531.3 **X_pgm_h**—] [— %V531.7



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[T] TON_14(0x3e8) : TON_14(1000)

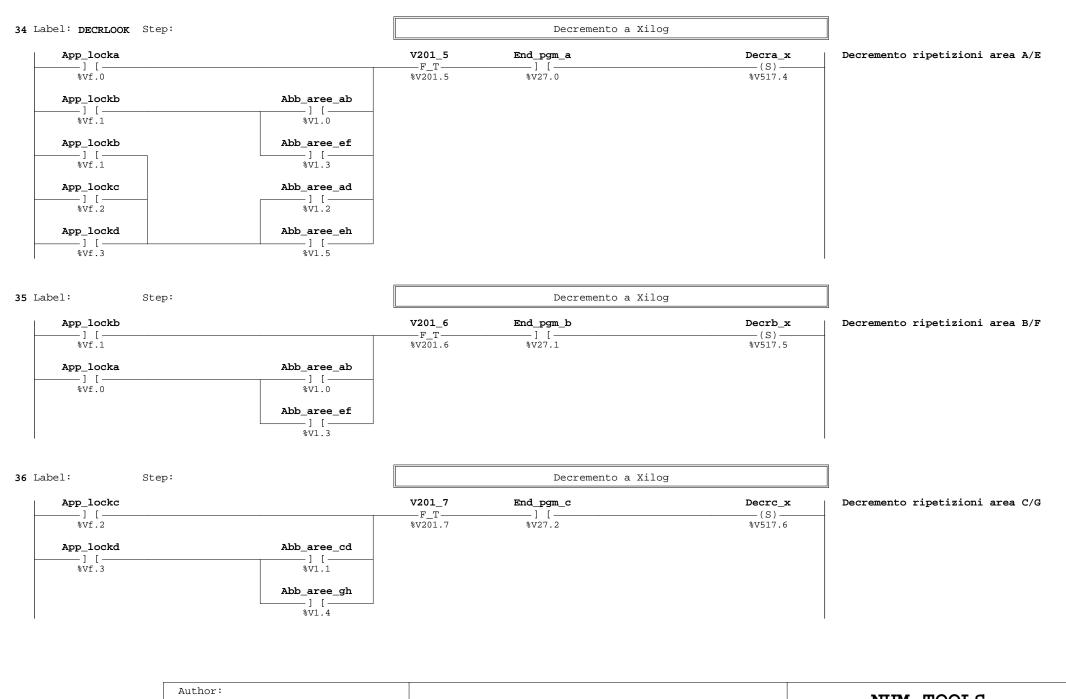
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33 Label: Step:

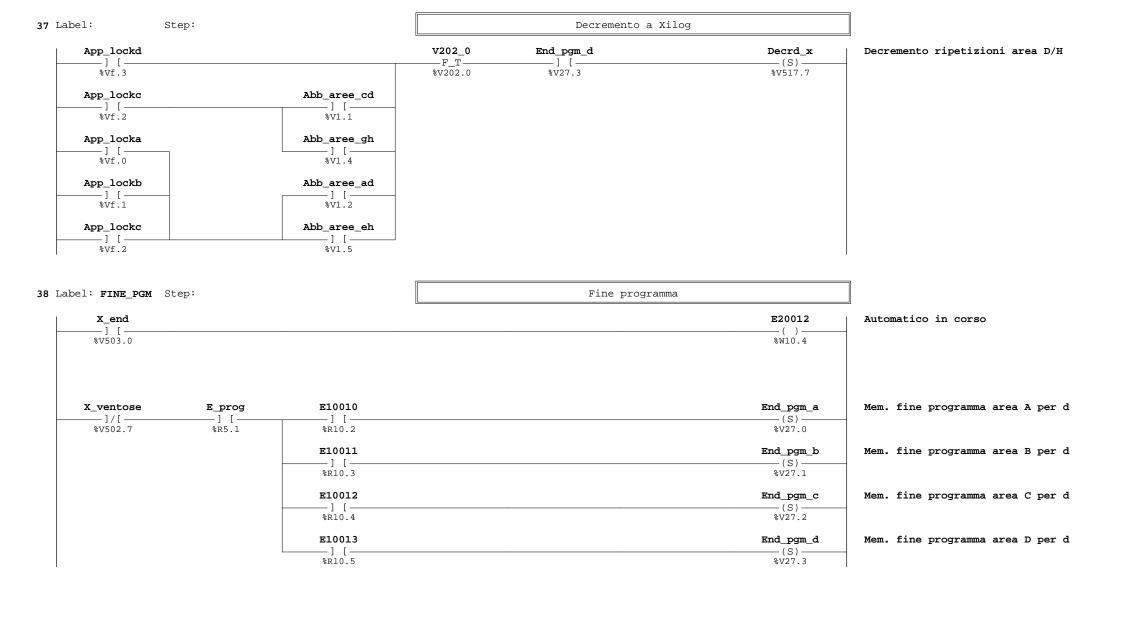
Selezione metodo di decremento

E10028, Nesting	Clarea_a, Clarea	_b, Clarea_c, Clarea_d, Sel_morab, Sel_morcd	goto(DECRLOOK)	
%Re.4, %M800.6		32.2, %V32.3, %I4100.2, %I4100.3	(1)	
X_ventose	E10010	V201_1	Decra_x	Decremento ripetizioni area A/E
%V502.7	%R10.2	F_T- %V201.1	(S)	
	E10011	V201_2	Decrb_x	Decremento ripetizioni area B/F
	%R10.3	F_T- %V201.2	(S)	
	E10012	V201_3	Decrc_x	Decremento ripetizioni area C/G
	%R10.4	F_T- %V201.3	(S)— %V517.6	
	E10013	V201_4	Decrd_x	Decremento ripetizioni area D/H
	%R10.5	F_T	(S) — %V517.7	
			goto(FINE_PGM)	
			(T)	

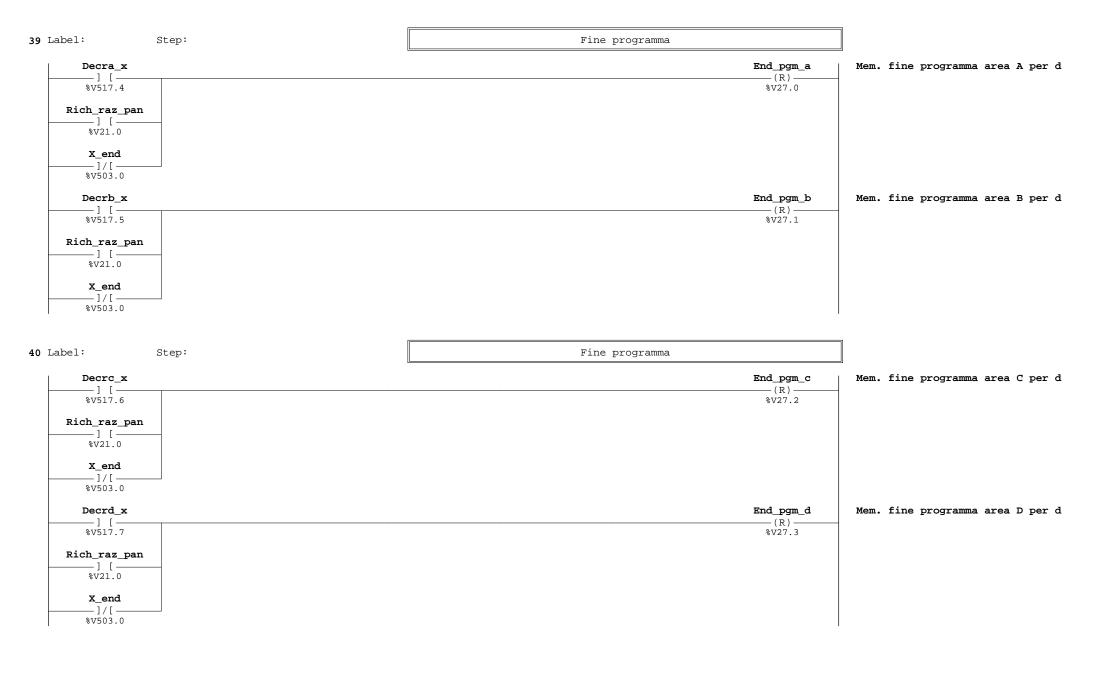
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Company:		INOM	TOOL	io
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41 Label: Step: Decremento a Xilog X_decr_gen V202_1 Decra_x Decremento ripetizioni area A/E -R T-—(R)-%V517.4 %V503.5 %V202.1 Rich_raz_pan Decrb x Decremento ripetizioni area B/F —] [— —(R)-%V21.0 %V517.5 X_{end} Decrc_x Decremento ripetizioni area C/G —] / [*-*—(R)— %V503.0 %V517.6 Decremento ripetizioni area D/H $\mathtt{Decrd}_{\mathtt{x}}$ — (R)-%V517.7 **42** Label: Step: Stato area a Xilog V202_2 Vacu_a (1) E_oper $Statoa_x = 1$ -]/[--R_T--]/[-— (T) — —][-%I4200.4 %V202.2 %R3.7 %V518.B = 0x1 Vacu_e %V18.0, %V18.1, Sel_list_ab —][—

(1) %I4100.2, %I5600.0, %I4100.6 : Sel_morab, Sel_list_ab, Sel_rw

%V18.0, %V18.1, %I5600.0

Sel_rw

%I4100.6

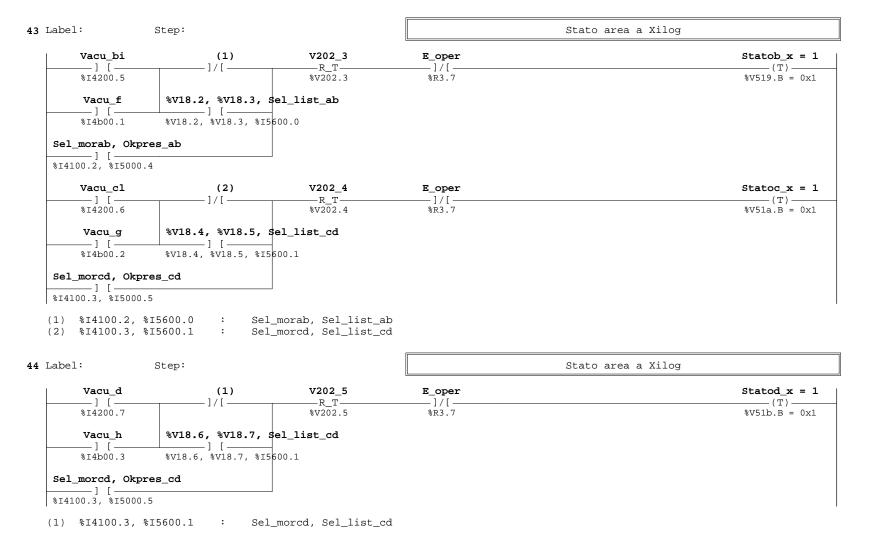
%I4b00.0

Vacu_cl

%I4200.6

Sel_morab, Okpres_ab
_____] [
%I4100.2, %I5000.4

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45 Label:	Step:	Stato area a Xilog	
Mstart_a	V202_6	Statoa_x =	2
%V6.3	R_T	(T) %V518.B = 0x	2
Mstart_b	V202_7	Statob_x =	2
*V6.4	R_T %V202.7		2
Mstart_c	V203_0	Statoc_x =	2
] [—— %V6.5	R_T	*V51a.B = 0x	2
Mstart_d	V203_1	Statod_x =	2
] [*V51b.B = 0x	
1 0,010	0,200,2	0102212	- 1
AC Tabala	Show A	Chata and a William	
46 Label:	Step:	Stato area a Xilog	
E10010	V203_2 	Fine_prga(S)	Mem. fine programma su area A pe
%R10.2	%V203.2	%V25.4	
E10011	V203_3	Fine_prgb	Mem. fine programma su area B pe
%R10.3	R_T- %V203.3	(S)	
E10012	V203_4	Fine_prgc	Mem. fine programma su area C pe
%R10.4		(S)	
E10013	V203_5	Fine_prgd	Mem. fine programma su area D pe
RR10.5	R_T	(S)	
'			'
47 Label:	Step:	Stato area a Xilog	
	Scep.		
Fine_prga		Wait_endpgr	Mem. attesa fine programma a Xil
%V25.4		%V27.4	
Fine_prgb		Wait_start(S)	Mem. attesa start ciclo area a X
%v25.5		%V27.5	
Fine_prgc			
%V25.6			
Fine_prgd			
%V25.7			
	Author:		NUM TOOLS
	Company:		
	Project: 1040_78.mch	TITRE	Date 28-02-2018

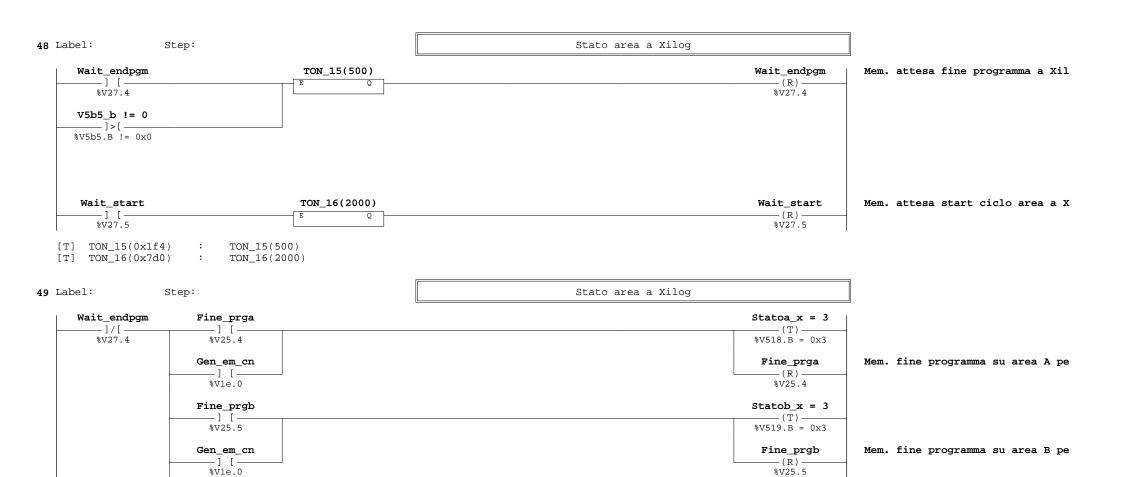
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Author:		NUM TOOLS		
Company:		11011	10010	
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: PROGM.XLA		%SP2 (48)	Page	24

 $Statoc_x = 3$

— (T)-

V51a.B = 0x3

Fine prgc

—(R)-

%V25.6

Mem. fine programma su area C pe

Fine_prgc

-1 [-

%V25.6

Gen em cn

][

%V1e.0

50 Label:

Step:

Stato area a Xilog

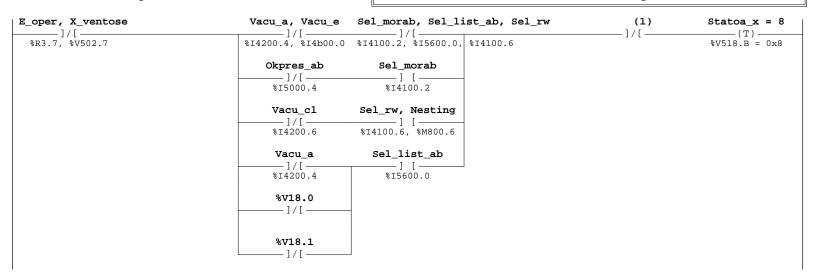


Mem. fine programma su area D pe

51 Label:

Step:

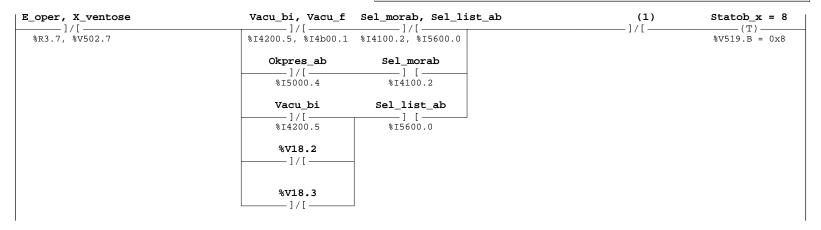
Stato area a Xilog



(1) %V5b4.0, %V5b4.4 : X_exec_a, X_exec_e

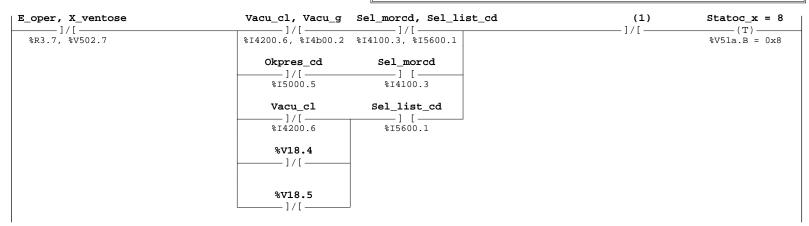
Author:		NTTM	TOOLS	
Company:		11011	10011	
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: PROGM.XLA		%SP2 (50)	Page	25

52 Label: Step: Stato area a Xilog



(1) %V5b4.1, %V5b4.5 : X_exec_b, X_exec_f

53 Label: Step: Stato area a Xilog



(1) %V5b4.2, %V5b4.6 : X_exec_c, X_exec_g

Author:		NUM	TOOT	d
Company:		NOM	1001	GL
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: PROGM.XLA		%SP2 (52)	Page	26

54 Label: Step: Stato area a Xilog E_oper, X_ventose Vacu_d, Vacu_h Sel_morcd, Sel_list_cd $Statod_x = 8$ (1) —(T)— %R3.7, %V502.7 %I4200.7, %I4b00.3 %I4100.3, %I5600.1 %V51b.B = 0x8 Okpres cd Sel_morcd _]/[_ -][-%I5000.5 %I4100.3 Sel_list_cd Vacu_d —] / [*—* —][— %I4200.7 %I5600.1 %V18.6 —] / [– %V18.7

(1) %V5b4.3, %V5b4.7 : X_exec_d, X_exec_h

Copyright by...

55 Label: Gestione laser posizionamento ventose

—] / [—

M146_1 Laser2 Laser DX posizinamento piani/ven _][-—(S)-%Q4601.7 %V692.0 M148_1 Laser2 Laser DX posizinamento piani/ven — 1 [— —(R)-%V694.0 %Q4601.7 E_raz %R3.0 Laser SX posizinamento piani/ven M145_1 Laser1 —][— —(S)-%V691.0 %Q4601.6 M147 1 Laser1 Laser SX posizinamento piani/ven —] [— —(R)-%V693.0 %04601.6 E_raz _][-%R3.0

Author:		NUM TOOLS		C
Company:		NOM	1001	5
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: PROGM.XLA		%SP2 (54)	Page	27

```
00 Label:
               Step:
                                                                        Codifica per accensione Led
                                   Ps_wlstx = 2
                     Ps_wlcd = 40
                                                                                                     Ps_wletx = 3
                                                                                                        — (T) —
     V2005.B = 0x2
                    V2006.B = 0x28
                                           V2008.B = (V200c.B >> 0x4) + 0xe0
                                                                                                     V200b.B = 0x3
   Ps_wlchh = ((Ps_wl1low ^ Ps_wl1high ^ 68) >> 4) + 224
                                                                                                           (2)
                                                                                                         —(T)—
   V2009.B = ((V2007.B ^ V2008.B ^ 0x44) >> 0x4) + 0xe0
   (1) V2007.B = (V200c.B \& 0xf) + 0xe0 : Ps_wlllow = (Ps_led & 15) + 224
  (2) %V200a.B = ((%V2007.B ^ %V2008.B ^ 0x44) & 0xf) + 0xe0 : Ps_wlchl = ((Ps_wlllow ^ Ps_wllhigh ^ 68) & 15) + 224
01 Label:
                                                                             Gestione seriale
                 Step:
                                                                                                           (1)
                                                                                                         -(T)-
    Ps_stato != 9
                      TON_2e(500)
                                                                                                       Ps_error
                                                                                                                     Errore linea seriale pigna
       ___]>[___
                                                                                                        — (S)-
    %V2003.W != 0x9
                                                                                                        %V202c.0
        E_raz
                                                                                                       Ps_error
                                                                                                                     Errore linea seriale pigna
        —][-
                                                                                                        — (R)—
        %R3.0
                                                                                                        %V202c.0
```

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Module: PS PIGNA.XLA		%SP40 (00)	Page	1

(1) comin(0x1, %V2050.&, 0xd) : comin(1, Psp_rstx.&, 13)

[T] $TON_2e(0x1f4)$: $TON_2e(500)$

02 Label: Azzeramento variabili in caso di errore seriale Step: Ps_error Ps_cuffia.W = 0 — (T) — %V202c.0 V202a.W = 0x0 $Ps_selax = 0$ — (T)— V202d.B = 0x0 $Ps_pot1 = 0$ — (T) — V202e.B = 0x0 $Ps_pot2 = 0$ —— (Т) — V202f.B = 0x0 $Ps_stato = 0$ — (T)— %V2003.W = 0x0 V2003.W = 0Assegnazioni variabili 03 Label: Step: Ps_stato $Ps_wstx = 2$ $Ps_wetx = 3$ — т — — (T) — %V2002.B = 0x3 V2000.B = 0x2Ps_stato = 1 *V2003.W = 0x1 goto(FINE) —— (Т) —

Author:		NUM TOOLS		d
Company:		NOM	1001	5
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: PS_PIGNA.XLA		%SP40 (02)	Page	2

```
%V2003.W = 1
04 Label:
                   Step: Ps_stato
                                                                           Richiesta valore potenziometri
                                                                                                           Ps_wcodreq = 32
                                                                                                                —(T)—
                                                                                                           %V2001.B = 0x20
                                                                                                   comout(1, Ps_wstx.&, 3)
                                                                                                           ——— (T)—
                                                                                                   comout(0x1, %V2000.&, 0x3)
                                                                                                            Ps_stato = 2
                                                                                                               —(T)-
                                                                                                            %V2003.W = 0x2
                                                                                                             goto(FINE)
                                                                                                               — (T)—
05 Label:
                   Step: Ps_stato
                                     %V2003.W = 2
                                                                                  Calcolo checksum
                                                                                (2)
                                             (1)
                                                                                                                  (3)
   (1) %V205d.B = %V2052.B ^ %V2053.B ^ %V2056.B ^ %V2057.B ^ 0x44 : Psp_cheksum = Psp_r1low ^ Psp_r3low ^ Psp_r3low ^ Psp_r3high ^ 68
   (2) V205e.B = (V205d.B >> 0x4) + 0xe0 : Psp_ch_h = (Psp_cheksum >> 4) + 224
```

Author:
Company:

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Module: PS_PIGNA.XLA

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*SP40 (04)
Page 3

(3) V205f.B = (V205d.B & 0xf) + 0xe0 : $Psp_ch_1 = (Psp_cheksum \& 15) + 224$

```
06 Label:
                                     %V2003.W = 2
                                                                                 Verifica checksum
                   Step: Ps_stato
           (1)
                    Psp_ch_1 == Psp_cklow
                                                                                                           Ps_stato = 3
                         __]>[_
                                                                                                               — (T) —
                                                                                                            %V2003.W = 0x3
                   %V205f.B == %V205a.B
                                                                                                           Ps_stato = 1
                                                                                                               — (F)—
                                                                                                           %V2003.W = 0x1
                                                                                                             goto(FINE)
                                                                                                               — (T) —
   (1) %V205e.B == %V205b.B : Psp_ch_h == Psp_ckhigh
07 Label:
                   Step: Ps_stato
                                     %V2003.W = 3
                                                                          Ricavo valore potenziometro assi
                                                                                                                  (1)
                                                                                                                -(T)—
                                                                                                                  (2)
                                                                                                                -(T)-
                                                                                                                  (3)
                                                                                                                -(T)-
                                                                                                                  (4)
                                                                                                                -(T)-
   (1) %V201f.B = %V2053.B - 0xe0 :
                                         Ps_ptlhigh = Psp_rlhigh - 224
   (2) %V201d.B = %V2052.B - 0xe0
                                         Ps_pt1low = Psp_r1low - 224
   (3) %V2020.W = %V201f.W >> 0x4 : Ps_ptlapp = Ps_ptlhigh.W >> 4
   (4) %V202e.B = %V2021.B + %V201d.B : Ps_pot1 = %V2021.B + Ps_pt1low
```

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Module: PS_PIGNA.XLA		%SP40 (06)	Page	4

```
V2003.W = 3
08 Label:
                   Step: Ps_stato
                                                                         Ricavo valore potenziometro mandrino
                                                                                                                  (1)
                                                                                                                -(T)-
                                                                                                                  (2)
                                                                                                                -(T)-
                                                                                                                  (3)
                                                                                                                -(T)-
                                                                                                                  (4)
                                                                                                                -(T)-
                                                                                                            Ps_stato = 4
                                                                                                               — (T) —
                                                                                                            %V2003.W = 0x4
                                                                                                             goto(FINE)
                                                                                                              — (T)—
   (1) %V2024.B = %V2057.B - 0xe0 : Ps_pt2high = Psp_r3high - 224
   (2) %V2022.B = %V2056.B - 0xe0 : Ps_pt2low = Psp_r3low - 224
   (3) %V2025.W = %V2024.W >> 0x4 : Ps_pt2app = Ps_pt2high.W >> 4
   (4) %V202f.B = %V2026.B + %V2022.B : Ps_pot2 = %V2026.B + Ps_pt2low
09 Label:
                                     %V2003.W = 4
                                                                         Richiesta stato tastiera a membrana
                   Step: Ps_stato
                                                                                                           Ps_wcodreq = 33
                                                                                                                — (T) —
                                                                                                           %V2001.B = 0x21
                                                                                                   comout(1, Ps_wstx.&, 3)
                                                                                                    comout(0x1, %V2000.&, 0x3)
                                                                                                            Ps_stato = 5
                                                                                                               — (T)—
                                                                                                            %V2003.W = 0x5
                                                                                                             goto(FINE)
                                                                                                               — (T) –
```

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Module: PS_PIGNA.XLA		%SP40 (08)	Page	5

Author:

```
V2003.W = 5
                                                                                                                                                                                                                                                                                                                                         Calcolo checksum
10 Label:
                                                                       Step: Ps_stato
                                                                                                                                                                                      (1)
                                                                                                                                                                                                                                                                                                                               (2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (3)
             (1) %V205d.B = %V2052.B ^ %V2053.B ^ %V2054.B ^ %V2055.B ^ 0x44 : Psp_cheksum = Psp_r1low ^ Psp_r2low 
             (2) V205e.B = (V205d.B >> 0x4) + 0xe0 : Psp_ch_h = (Psp_cheksum >> 4) + 224
             (3) %V205f.B = (%V205d.B & 0xf) + 0xe0 : Psp_ch_1 = (Psp_cheksum & 15) + 224
11 Label:
                                                                                                                                                      %V2003.W = 5
                                                                                                                                                                                                                                                                                                                                       Verifica checksum
                                                                            Step: Ps_stato
                                                                    Psp_ch_1 == Psp_r3low
                                               (1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                Ps stato = 6
                                                                                         ____]>[___
                                                                                                                                                                                                                                                                                                                                                                                                                                                           — (T) —
                                                                             %V205f.B == %V2056.B
                                                                                                                                                                                                                                                                                                                                                                                                                                                V2003.W = 0x6
                                                                                                                                                                                                                                                                                                                                                                                                                                               Ps_stato = 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                          — (F)—
                                                                                                                                                                                                                                                                                                                                                                                                                                                V2003.W = 0x4
                                                                                                                                                                                                                                                                                                                                                                                                                                                    goto(FINE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                           — (T) —
             (1) V205e.B == V2057.B : Psp_ch_h == Psp_r3high
```

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Company:

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%SP40 (10)

Module: PS_PIGNA.XLA

abel: Step: Ps_stato %V2003.W = 6	Ricavo stato tasti a membrana	
Psp_rllow.0	Ps_start Start ciclo	
\$V2052.0	%V202a.0	
Psp_rllow.1	Ps_blsbl Sblocco/Blocco ut	tensile
	*V202a.1	
Psp_r1low.2	Ps_f3 F3	
	()	
Psp_rllow.3	Ps_meno Meno	
	()	
Psp_rlhigh.0	Ps_stop Stop	
	() — %V202a.4	
Psp_rlhigh.1	Ps_f1 F1	
abel: Step: Ps_stato %V2003.W = 6	Ricavo stato tasti a membrana	
Psp_rlhigh.2	Ps_f4 F4	
Psp_r1high.2] [Ps_f4 F4 ()	
Psp_rlhigh.2	Ps_f4 F4	fia elettroma
Psp_rlhigh.2	Ps_f4()%V202a.6 Ps_cuffia()%V202a.7 Sollevamento cuff	fia elettroma
Psp_rlhigh.2 \[\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tikt}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tikt}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tikt}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tikt{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\til\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tex{\tex	Ps_f4()	fia elettroma
Psp_rlhigh.2	Ps_f4()%V202a.6 Ps_cuffia()%V202a.7 Ps_piu()%V202b.0 Ps_tù	fia elettroma
Psp_rlhigh.2 \[\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tikt}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tikt}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tikt}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tikt{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\til\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tex{\tex	Ps_f4()	fia elettroma
Psp_rlhigh.2	Ps_f4()	fia elettroman
Psp_rlhigh.2	Ps_f4()%V202a.6 Ps_cuffia()%V202a.7 Ps_piu()%V202b.0 Ps_f2()%V202b.1 Ps_f5 F5	fia elettroman
Psp_rlhigh.2 -	Ps_f4()%V202a.6 Ps_cuffia()%V202a.7 Ps_piu()%V202b.0 Ps_f2()%V202b.1 Ps_f2()%V202b.1	fia elettroman
Psp_rlhigh.2	Ps_f4() _\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te\tin\text{\text{\text{\text{\texi{\text{\text{\text{\text{\text{\tert{\texict{\text{\text{\text{\text{\ti}\text{\te\tint{\t	fia elettroman

Author:		NUM TOOLS		ר פ
Company:		NOM	1001	ПЭ
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```
Step: Ps_stato
                                                                                                                 Ps_stato = 7
                                                                                                                *V2003.W = 0x7
                                                                                                                  goto(FINE)
                                                                                                                    — (T) —
                                     %V2003.W = 7
15 Label:
                    Step: Ps_stato
                                                                        Richiesta stato selettori e communatore assi
                                                                                                               Ps_wcodreq = 34
                                                                                                                *V2001.B = 0x22
                                                                                                        comout(1, Ps_wstx.&, 3)
                                                                                                        comout(0x1, %V2000.&, 0x3)
                                                                                                                 Ps_stato = 8
                                                                                                                *V2003.W = 0x8
                                                                                                                  goto(FINE)
                                                                                                                  —— (Т) —
```

%V2003.W = 6

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Company:		NOM	1001	1 5
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14 Label:

```
16 Label:
                   Step: Ps_stato
                                             (1)
                                                                                (2)
                                                                                                                  (3)
                                                                                                                (T)-
   (1) %V205d.B = %V2052.B ^ %V2053.B ^ %V2054.B ^ %V2055.B ^ %V2056.B ^ %V2057.B ^ 0x44
                                                                                        : Psp_cheksum = Psp_rllow ^ Psp_rlhigh ^ Psp_r2low ^ Psp_r2high ^
         Psp_r3low ^ Psp_r3high ^ 68
   (2) V205e.B = (V205d.B >> 0x4) + 0xe0 : Psp_ch_h = (Psp_cheksum >> 4) + 224
   (3) V205f.B = (V205d.B \& 0xf) + 0xe0 : Psp_ch_1 = (Psp_cheksum & 15) + 224
                                                                                 Verifica checksum
17 Label:
                                     V2003.W = 8
                   Step: Ps_stato
           (1)
                   Psp_ch_1 == Psp_r4low
                                                                                                            Ps_stato = 9
                         ___]>[ __
                                                                                                               — (T) –
                   %V205f.B == %V2058.B
                                                                                                            V2003.W = 0x9
                                                                                                            Ps_stato = 7
                                                                                                              — (F)—
                                                                                                            V2003.W = 0x7
                                                                                                             goto(FINE)
                                                                                                               —(T)-
```

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Module: PS_PIGNA.XLA

(1) V205e.B == V2059.B : $Psp_ch_h == Psp_r4high$

%V2003.W = 8

Calcolo checksum

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%SP40 (16)

Page

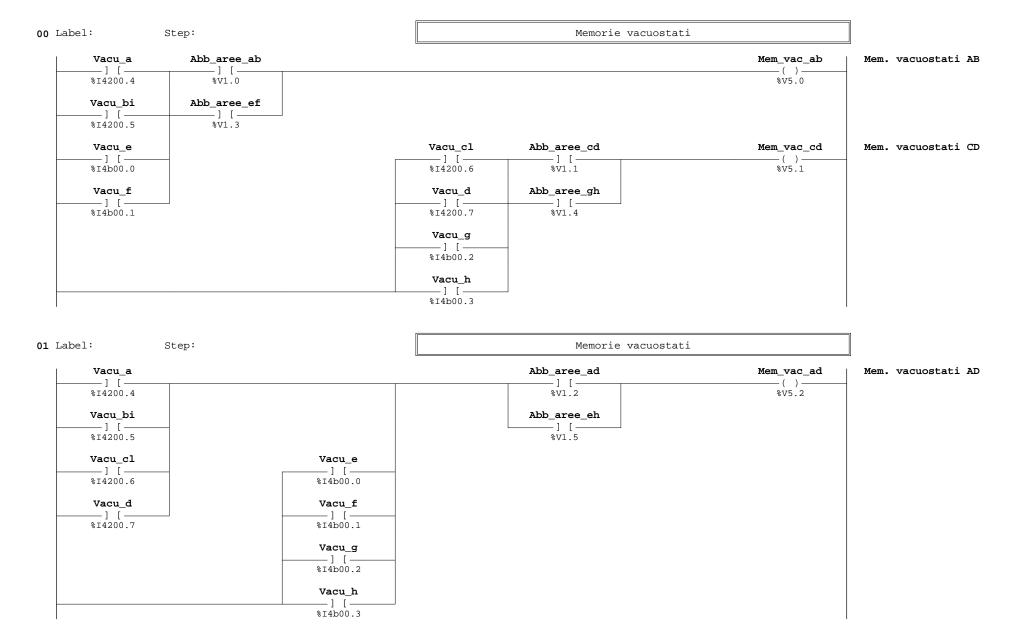
9

18 Label: %V2003.W = 9 Ricavo stato selettori e commutatori assi Step: Ps_stato (1) -(T)-Psp_r3low.0 Ps_f7 F7 —] [— %V2056.0 %V202b.4 Psp_r3low.1 Ps_f8 F8 —][— — () — %V2056.1 %V202b.5 Psp_r2low.1 Psp_r2low.0 Ps_nomode No mode —] [— —] / [— — () — %V2054.1 %V2054.0 %V202b.7 Psp_r2low.0 Psp_r2low.1 No edit Ps_noedit —][— —][— — () — %V2054.0 %V2054.1 %V202b.6 (1) %V202d.B = %V2052.B - 0xe0 : Ps_selax = Psp_rllow - 224 **19** Label: %V2003.W = 9 Step: Ps_stato Ps stato = 10 — (Т)— %V2003.W = 0xa goto(FINE) —(T)-

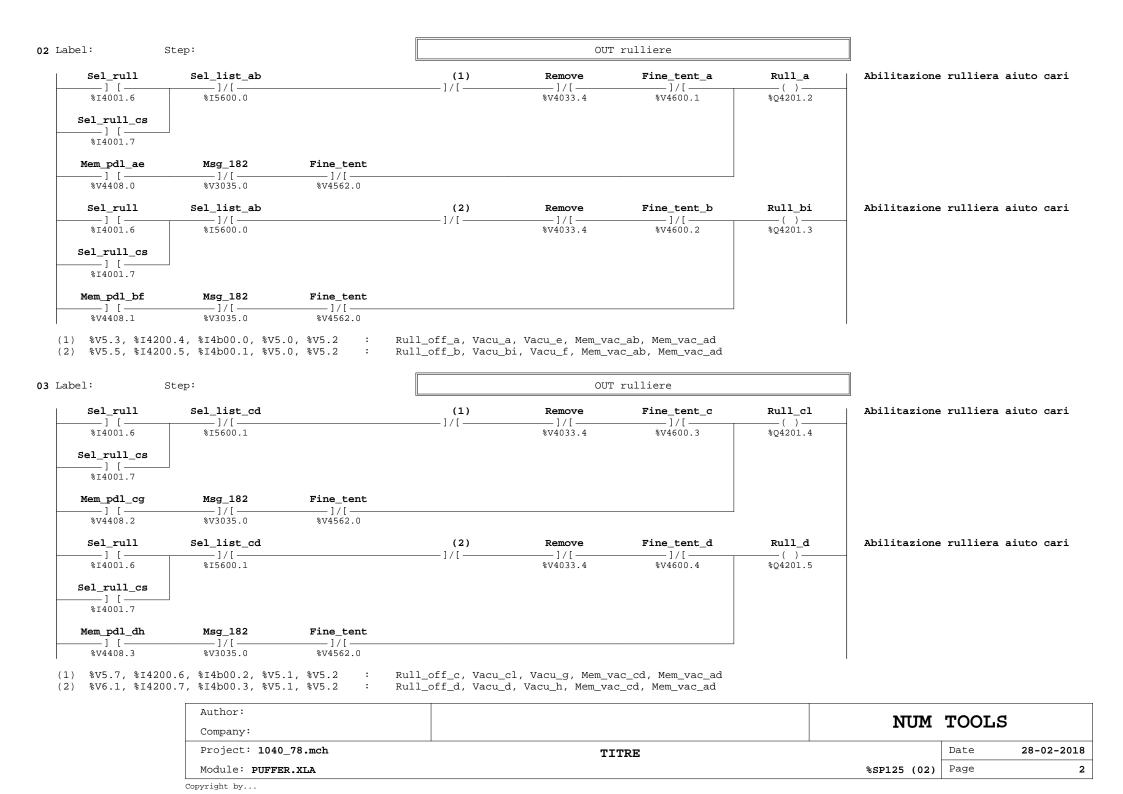
Author:		NUM	TOO	T.C
Company:		NOM	100	ПО
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: PS_PIGNA.XLA		%SP40 (18)	Page	10

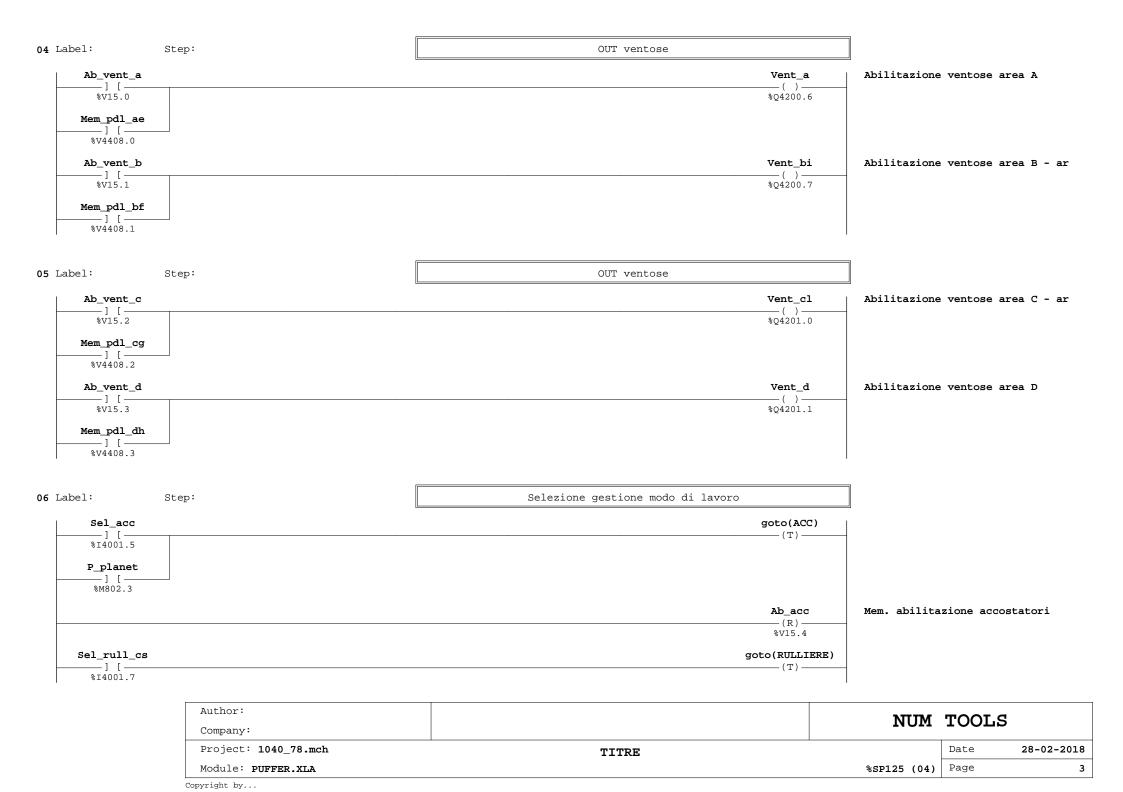
21 Label: FINE Step:

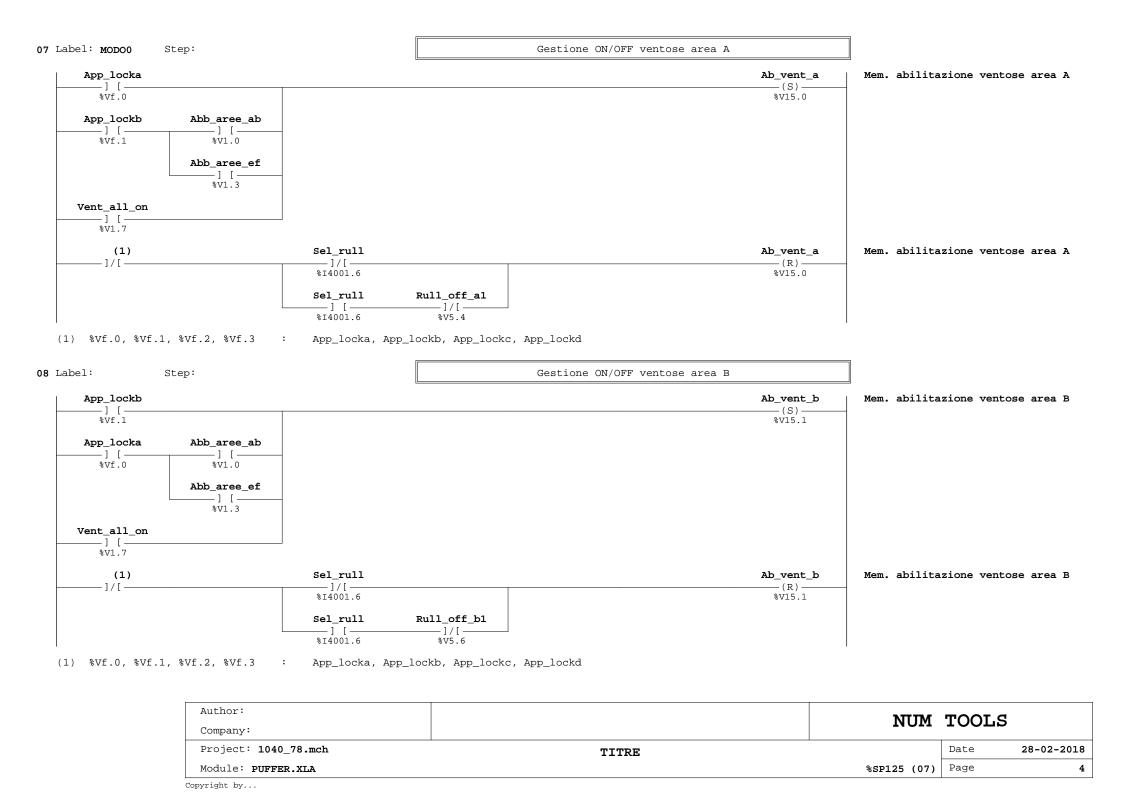
Author:		NUM TOOLS		
Company:		NOM	тооць	•
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: PS_PIGNA.XLA		%SP40 (20)	Page	11

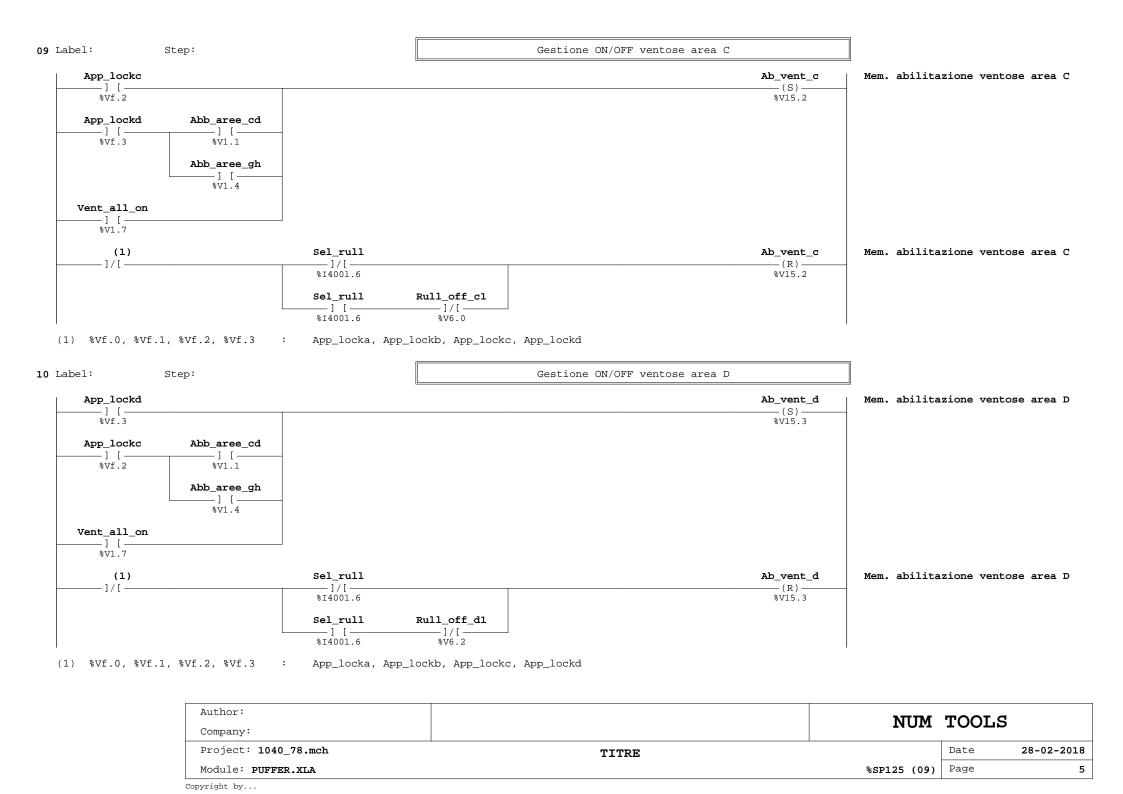


Author:		NUM TOOLS		ıs
Company:		11011		
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: PUFFER.XLA		%SP125 (00)	Page	1







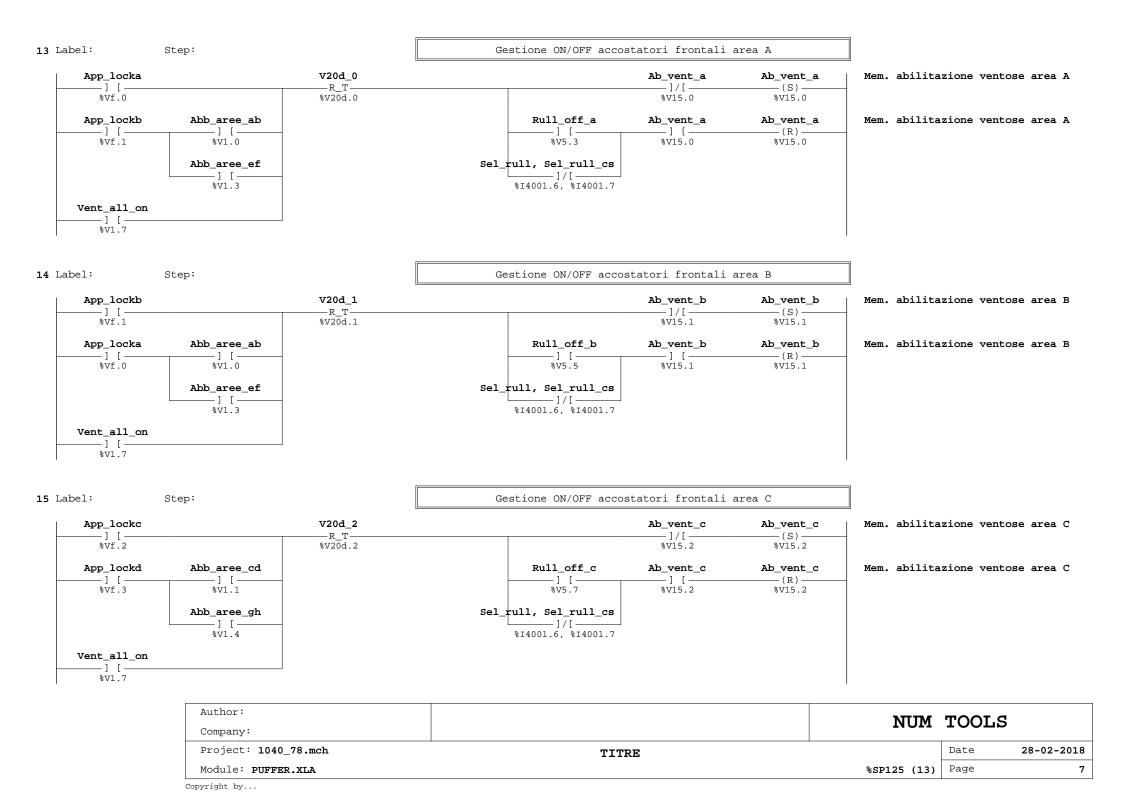


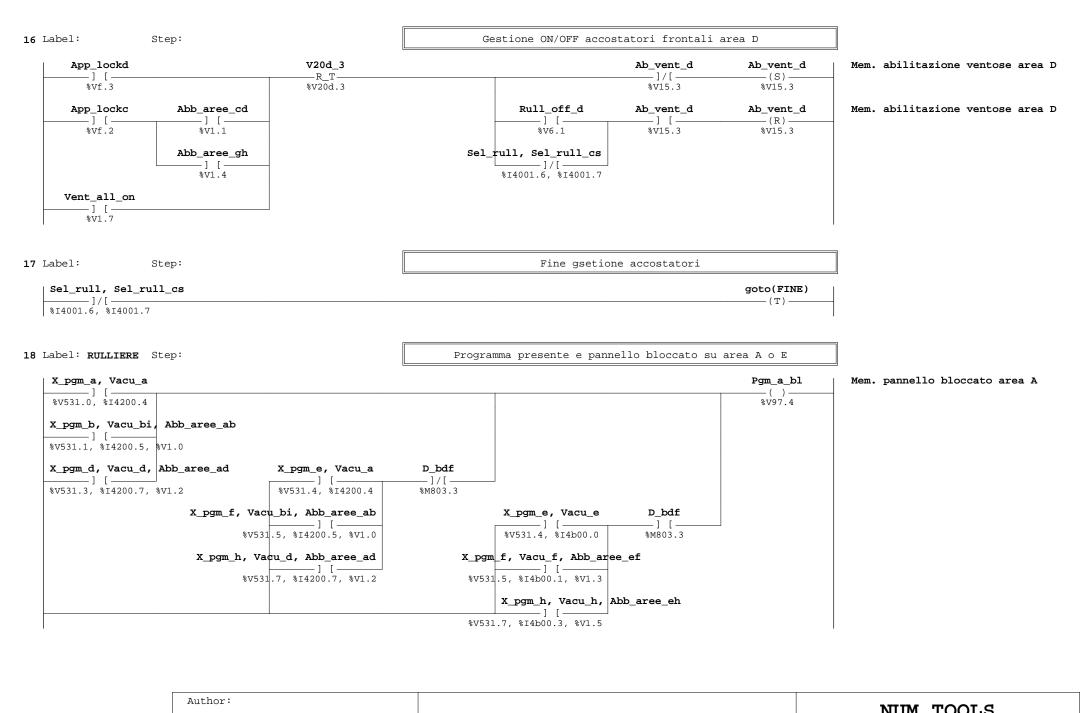
11 Label: Step: Verifica se rulliere aiuto carico attive goto(RULLIERE) Sel_rull —(T)-%I4001.6 goto(FINE) — (T) – 12 Label: ACC Step: Gestione accostatori Ab_acc Ab_vent_a Mem. abilitazione ventose area A —] / [– —(S)-%V15.0 %V15.4 Ab_vent_b Mem. abilitazione ventose area B —(S)-%V15.1 Ab_vent_c Mem. abilitazione ventose area C —(S)-%V15.2 Ab_vent_d Mem. abilitazione ventose area D __(S)__ %V15.3 Ab_acc Mem. abilitazione accostatori —(S)-

Author:		NUM TOOLS		r a
Company:		NOM	1001	19
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: PUFFER.XLA		%SP125 (11)	Page	6

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%V15.4



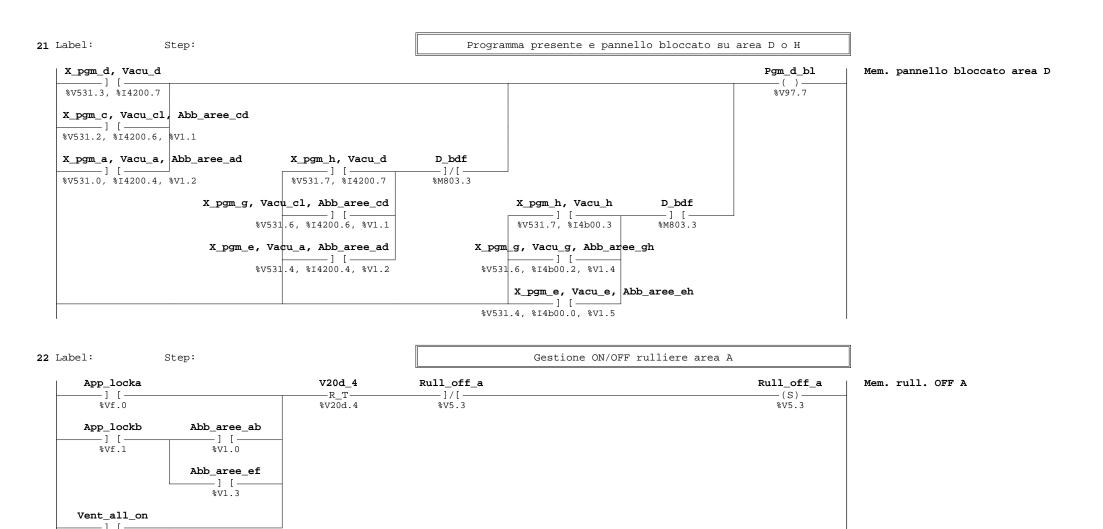


Company:				
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: PUFFER.XLA		%SP125 (16)	Page	8

19 Label: Step: Programma presente e pannello bloccato su area B o F X pgm b, Vacu bi Pgm b bl Mem. pannello bloccato area B —] [— %V531.1, %I4200.5 %V97.5 X_pgm_a, Vacu_a, Abb_aree_ab __][__ %V531.0, %I4200.4, %V1.0 Abb_aree_ad (1) D_bdf Pgm_a_bl __1 [_ —1 I — — 1 / f — %V1.2 %V97.4 X_pgm_e, Vacu_a, Abb_aree_ab Abb_aree_eh Pgm d bl __1 [_ __1 [_ ____1 [__ %V97.7 %V531.4, %I4200.4, %V1.0 %V1.5 X_pgm_f, Vacu_f D bdf — 1 [— _ 1 [_ %V531.5, %I4b00.1 %M803.3 X_pgm_e, Vacu_e, Abb_aree_ef %V531.4, %I4b00.0, %V1.3 (1) %V531.5, %I4200.5 : X_pgm_f, Vacu_bi 20 Label: Step: Programma presente e pannello bloccato su area C o G X_pgm_c, Vacu_cl Pgm c bl Mem. pannello bloccato area C —__] [— — () *–* %V531.2, %I4200.6 %V97.6 X_pgm_d, Vacu_d, Abb_aree_cd —] [— %V531.3, %I4200.7, %V1.1 Abb aree ad Pgm a bl (1) D bdf __][_ —][— —] / [– %M803.3 %V1.2 %V97.4 Abb aree eh Pam d bl X pgm h, Vacu d, Abb aree cd ___] [_ _][_ ____1 [_ %V1.5 %V97.7 %V531.7, %I4200.7, %V1.1 X pgm g, Vacu g D_bdf —] [— -1 [-%V531.6, %I4b00.2 %M803.3 X_pgm_h, Vacu_h, Abb_aree_gh ——][— %V531.7, %I4b00.3, %V1.4 (1) %V531.6, %I4200.6 : X_pgm_g, Vacu_cl

Author: Company:		NUM	TOOL	S
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: PUFFER.XLA		%SP125 (19)	Page	9

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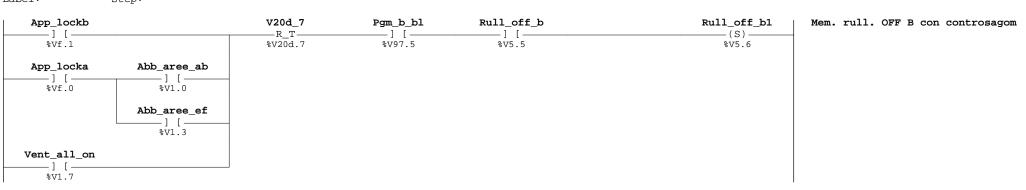


Author:		NUM	TOOL	c c
Company:		MOM	TOOL	10
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: PUFFER.XLA		%SP125 (21)	Page	10

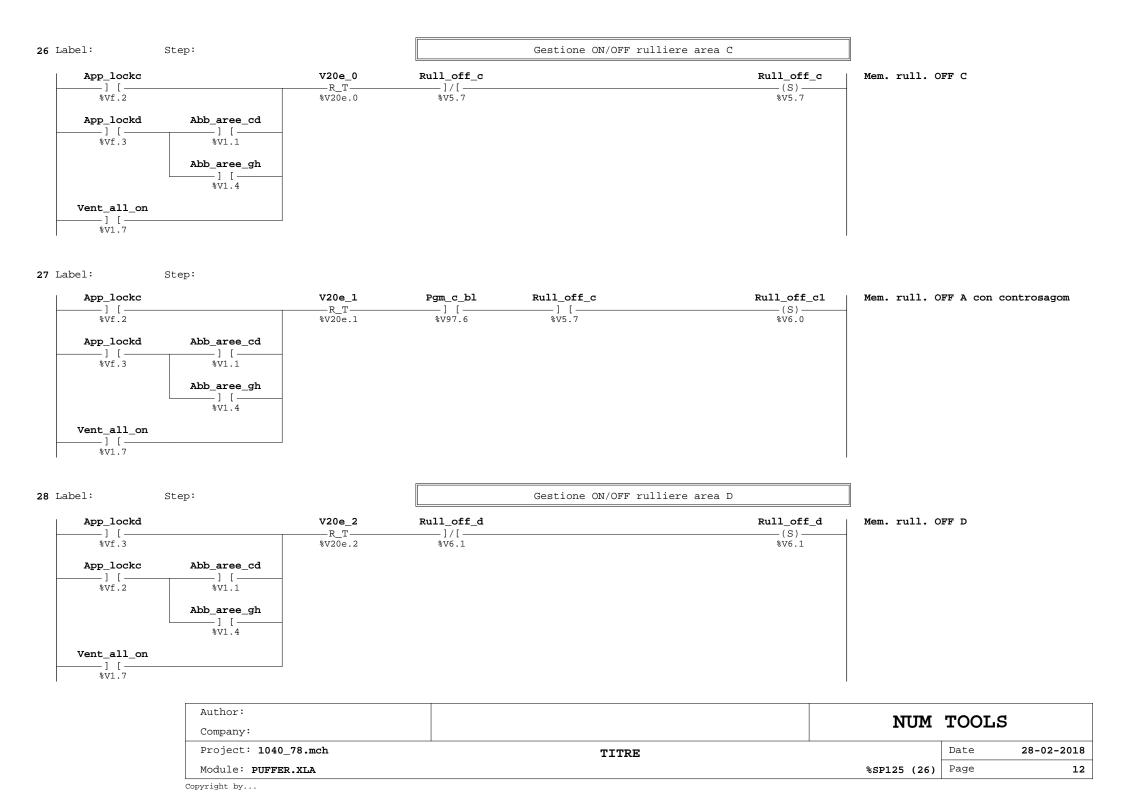
%V1.7

23 Label: Step: App_locka V20d_5 Pgm_a_bl Rull_off_a Rull_off_a1 Mem. rull. OFF A con controsagom —] [— -R T-—][— -(S)-%V5.4 %Vf.0 %V20d.5 %V97.4 %V5.3 App_lockb Abb_aree_ab _][--][-%Vf.1 %V1.0 Abb_aree_ef -][-%V1.3 Vent_all_on _][_ %V1.7 **24** Label: Gestione ON/OFF rulliere area B Step: App_lockb V20d_6 Rull_off_b $Rull_off_b$ Mem. rull. OFF B -][--R T--]/[--(S)-%Vf.1 %V20d.6 %V5.5 %V5.5 App_locka Abb_aree_ab —][--][-%Vf.0 %V1.0 Abb_aree_ef —][— %V1.3 Vent_all_on _] [_ %V1.7

25 Label: Step:



Author:		NUM	TOOL	d
Company:		NOM	1001	io
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: PUFFER.XLA		%SP125 (23)	Page	11



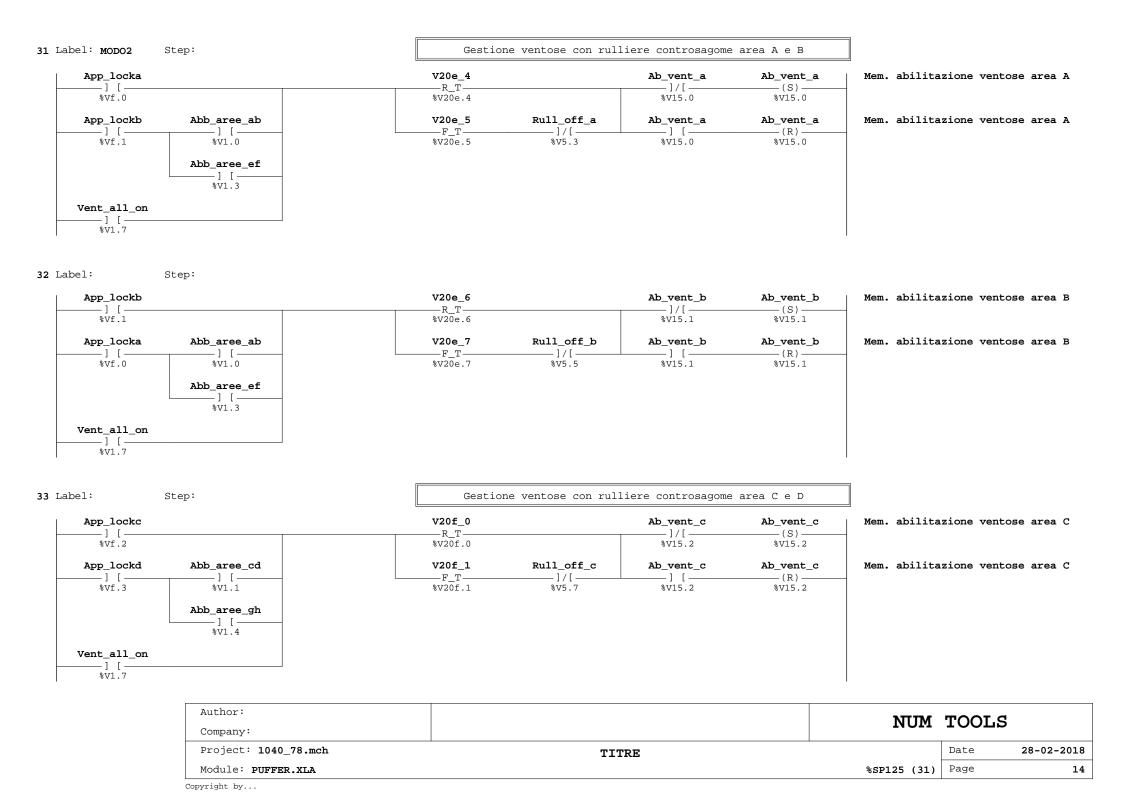
29 Label: Step:

App_lockd		V20e_3 R_T	Pgm_d_bl	Rull_off_d	Rull_off_d1
%Vf.3		%V20e.3	%V97.7	%V6.1	%V6.2
App_lockc] [Abb_aree_cd				
	Abb_aree_gh				
Vent_all_on					

Mem. rull. OFF D con controsagom

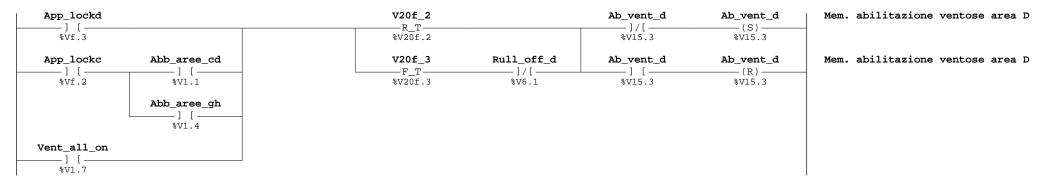
30 Label: Step: Selezione gestione modo di lavoro

Author:		NUM	т∩∩т	ר פ
Company:		NOM	1001	ПО
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: PUFFER.XLA		%SP125 (29)	Page	13



34 Label:

Step:



35 Label: FINE Step:

[T]

TON_42(0x3e8)



Author: Company:		NUM	TOOL	5
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: PUFFER.XLA		%SP125 (34)	Page	15

TON_42(1000)

36 Label:

Step:

Rull_off_d1] [TON_43(1000)	Rull_off_d (R) %V6.1	Mem. rull. OFF D
X_end]/[%V503.0				
Rull_off_a1 	Rull_off_a]/[%V5.3	TON_44(1000)	Rull_off_a1 - (R) %V5.4	Mem. rull. OFF A con controsagom
Rull_off_bl	Rull_off_b]/[%V5.5	TON_45(1000)	Rull_off_b1	Mem. rull. OFF B con controsagom
Rull_off_c1 	Rull_off_c]/[%V5.7	TON_46(1000)	Rull_off_c1	Mem. rull. OFF A con controsagom
Rull_off_d1] [%V6.2	Rull_off_d]/[TON_47(1000)	Rull_off_d1 (R) %V6.2	Mem. rull. OFF D con controsagom

[T]	$TON_43(0x3e8)$:	TON_43(1000)
[T]	TON_44(0x3e8)	:	TON_44(1000)
[T]	TON_45(0x3e8)	:	TON_45(1000)
[T]	TON_46(0x3e8)	:	TON_46(1000)
[T]	TON_47(0x3e8)	:	TON_47(1000)

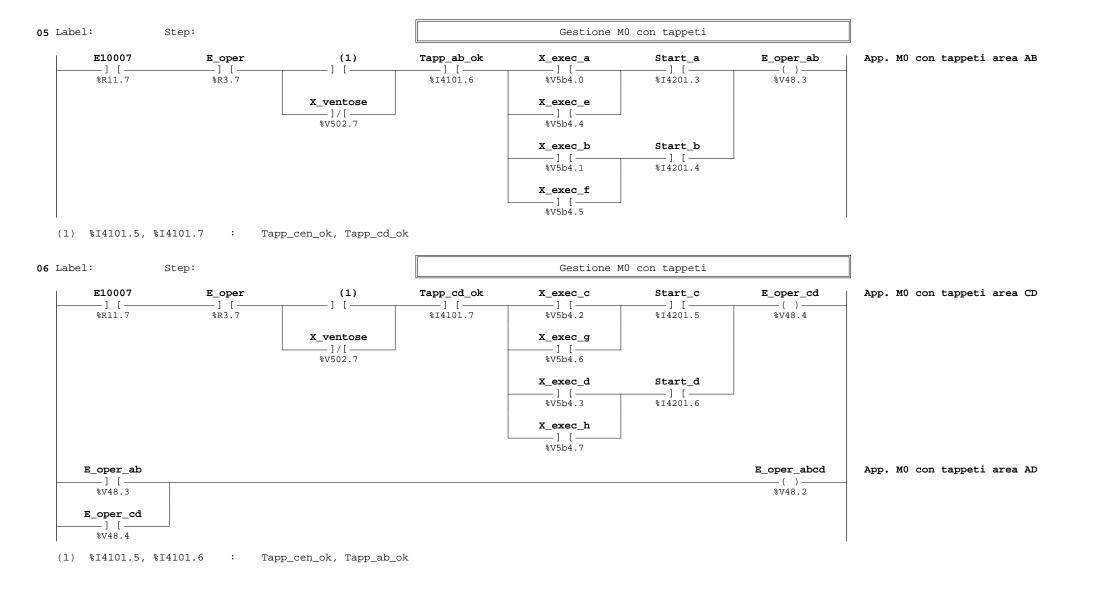
Author: Company:		NUM	TOOL	S
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: PUFFER.XLA		%SP125 (36)	Page	16

```
00 Label:
                   Step:
                                                                     Lettura potenziometri analogica e bit lampeggio
                                                                                                                    (1)
                                                                                                                   ·(T)-
                                                                                                                    (2)
                                                                                                                   -(T)-
                                                                                                              Cont_40 += 1
                                                                                                                 — (T)—
                                                                                                              Mle.B += 0x1
     Cont_40 > 20
                                                                                                                  M30_1
                                                                                                                                Lampeggio leed
       ____1>[ ___
                                                                                                                  — ( ) —
     Mle.B > 0x14
                                                                                                                  %M30.1
     Cont_40 > 40
                                                                                                               Cont_40 = 0
        — (T) —
      M1e.B > 0x28
                                                                                                               Mle.B = 0x0
   (1) anai(0x10, %V66.&)
                                  anai(16, V_pot2.&)
   (2) anai(0x11, %V64.&)
                                  anai(17, V_pot1.&)
01 Label:
                                                                            Verifica ed emergenza 10 percento
                   Step:
                                                                                                                    (1)
                                                                                                                    (2)
                                                                                                                   -(T)-
     End_acc_inv1
                      Diff_inv1 > 0
                                              (3)
                                                          M_rip1_st4
                                                                           TON_0f(1000)
                                                                                                               Emer10perc
                                                                                                                                Emergenza per +10% analogica inv
                          — l>[ —
                                                              — 1 / [ -
        %I4001.2
                        %V52.W > 0x0
                                                             %M31.3
                                                                                                                 %V1e.6
                      Diff_inv1 < 0 Diff_inv1 * -1 > CallOperc * 2
                                                                                                                                ANOMALIA INVERTER 10%
                                                                                                                 Msg_159
                        ____]>[___
                                           ___]>[___
                                                                                                                  -(S)-
                        %V52.W < 0x0
                                      %V52.W * 0xffffffff > %V54.W * 0x2
                                                                                                                 %V301e.0
   (1) V52.W = V66.W - V50.W: Diff_inv1 = V_pot2 - V50_w
   (2) %V54.W = %V50.W * 0xa / 0x64 : CallOperc = V50_w * 10 / 100
   (3) V52.W >= V54.W: Diff_inv1 >= CallOperc
   [T] TON_0f(0x3e8) : TON_0f(1000)
```

Author:		MITM	TOOI	. c
Company:		NOM	1001	10
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: PUP_MACH.XLA		%SP0 (00)	Page	1

```
02 Label:
                                                                               Rapporto potenziometro al 100%
                    Step:
                                                                                                                       (1)
                                                                                                                      (T)-
                                                                                                  Pot_100 = Pot_100 * 100 / 120
                                                                                                                     — (T) —
                                                                                                  V2060.W = V2060.W * 0x64 / 0x78
   (1) %V2060.W = %V2020.W + %V201d.B : Pot_100 = Ps_pt1app + Ps_pt1low
03 Label:
                                                                               Scrittura valore potenziometri
                    Step:
        Rapid1
                                                                                                                       (1)
                                                                                                                      (T)-
         —][—
         %R103.0
      Modcour == 7
         __]>[_
      %R16.B == 0x7
         Rapid1
                       Modcour != 7
                                                                                                                       (2)
         — ] / [ —
                          ___]>[__
                                                                                                                     ·(T)-
                        %R16.B != 0x7
         %R103.0
   (1) %W102.B = %V2060.W
                             : Potav1 = Pot_100
   (2) %W102.B = %V202f.B : Potav1 = Ps_pot2
04 Label:
                    Step:
                                                                                 Gestione modo sequenziale
      Modcour == 1
                                                                                                                                  Mem. modo SEQ
                           E_prog
                                                                                                                    Ab_seq
         ___]>[___
                           _][_
                                                                                                                    —(S)-
      %R16.B == 0x1
                           %R5.1
                                                                                                                    %V2a.3
         Ab_seq
                        Modcour == 0
                                                                                                                  Ab_aut_seq
                                                                                                                                   Mem. modo AUT disabilitando modo
        —][—
                          __]>[__
                                                                                                                    — ( ) —
                        %R16.B == 0x0
                                                                                                                    %V2a.4
         %V2a.3
     Rich_cicl_pa
                                                                                                                    Ab_seq
                                                                                                                                  Mem. modo SEQ
         — 1 [ —
                                                                                                                    —(R)-
         %V21.4
                                                                                                                    %V2a.3
      Rich_raz_pan
         —11—
         %V21.0
```

Author:		NITIM	TOOLS			
Company:		NOM	тоопр	1		
Project: 1040_78.mch	TITRE		Date	28-02-2018		
Module: PUP_MACH.XLA		%SP0 (02)	Page	2		
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Company:

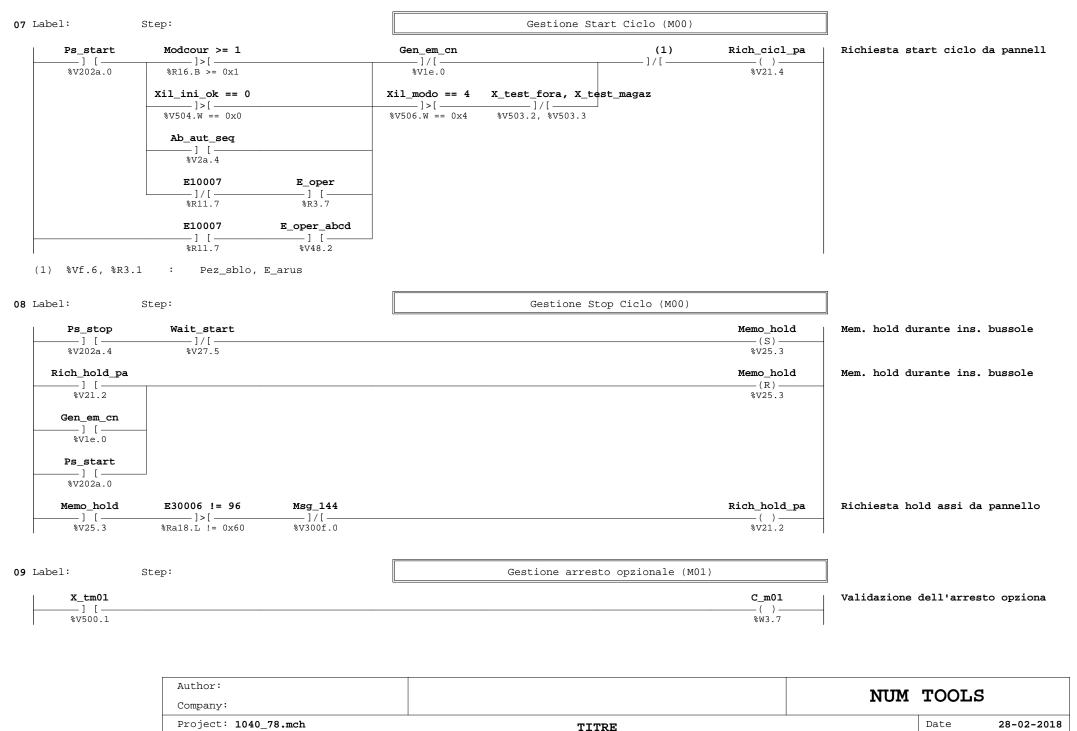
Project: 1040_78.mch
Module: PUP_MACH.XLA

TITRE

NUM TOOLS

Date 28-02-2018

**SP0 (05) Page 3



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Module: PUP_MACH.XLA

%SP0 (07)

Page

4

10 Label: Step: Gestione manipolatori assi

(1) Xil_modo != 3 Ps_selax == 1 Ps_piu Jogpos0

JOG positivo asse nø 0 _]>[-_]>[_ —][-%V506.W != 0x3 %V202d.B == 0x1 %V202b.0 %W9.0 JOG negativo asse nø 0 Setting Ps meno Jogneg0 — Ī [— —] / [— _ () _ %I4101.3 %V202a.3 %Wd.0 Ps_selax == 12 Ps_piu Jogpos1 JOG positivo asse nø 1 ___]>[___ —][-— () — %V202d.B == 0xc %V202b.0 %W9.1 Jogneg1 JOG negativo asse nø 1 Ps_meno —][-%V202a.3 %Wd.1 Ps_selax == 10 JOG positivo asse nø 2 Ps_piu Jogpos2 __]>[_ _][_ %V202d.B == 0xa %V202b.0 %W9.2 Ps_meno Jogneg2 JOG negativo asse nø 2 _][_ — () – %V202a.3 %Wd.2

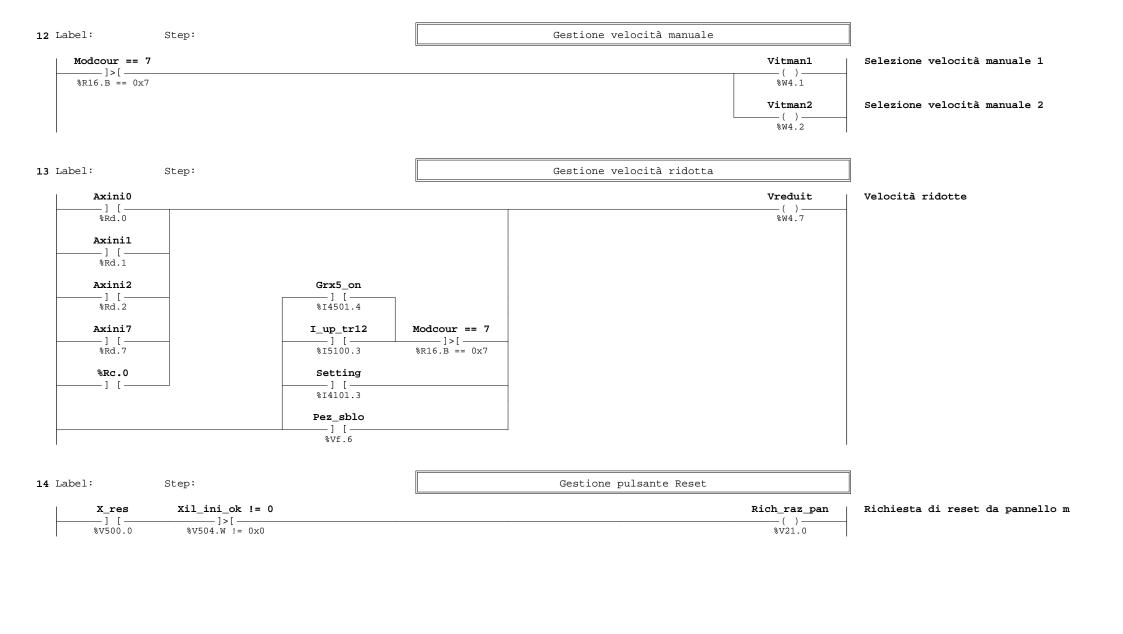
(1) %I4101.3, %I4001.3, %I4100.7 : Setting, Pul_um1, Pul_um2

11 Label: Step: Gestione manipolatori assi

-	(1)] [Xi1_modo != 3 >[%V506.W != 0x3	Ps_selax == 3 > [%V202d.B == 0x3	Ps_piu] [] [%V202b.0	Jogpos7 ()_ %W9.7	JOG positivo asse nø 7
	Setting]/[%14101.3			Ps_meno] [Jogneg7 ()_ %Wd.7	JOG negativo asse nø 7
			Ps_selax == 4 > [%V202d.B == 0x4	Ps_piu] [Jogpos8 ()_ %W8.0	JOG positivo asse nø 8
				Ps_meno] [Jogneg8 ()_ %Wc.0	JOG negativo asse nø 8

(1) %I4101.3, %I4001.3, %I4100.7 : Setting, Pul_um1, Pul_um2

Author:		NUM	TOOLS	
Company:		NOM	TOOLD	
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: PUP_MACH.XLA		%SP0 (10)	Page	5



Author:		NUM TOOLS		d
Company:		NOM	1001	5
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: PUP_MACH.XLA		%SP0 (12)	Page	6

16 Label: Step:

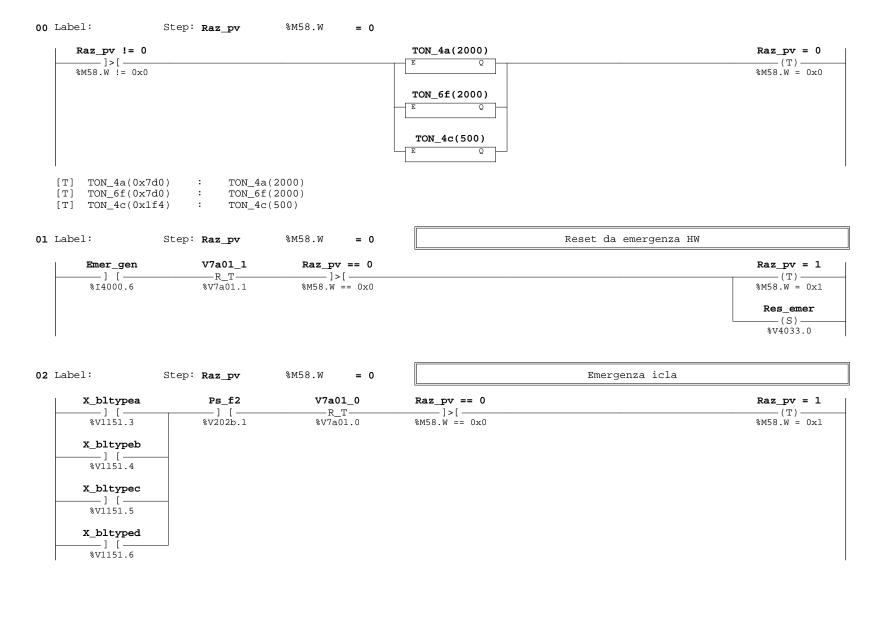
Ps_cuffia] [V205_0 R_T %V205.0	E10003 	M_app1 ()- %V28.3	Mem. a
M_app1	Enab_cuff	***************************************	M_app2	Mem. a
%V28.3 M_app1	%V28.2 M_app2		%V28.4 Enab_cuff ()	Mem. so
%V28.3 Enab_cuff	%V28.4		%V28.2	

Mem. appoggio soll. cuffie da op

Mem. appoggio discesa cuffie da

em. sollevamento cuffie da oper

Author: Company:		NUM TOOLS		
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: PUP MACH.XLA		%SP0 (15)	Page	7



Author:		NUM TOOLS		T C
Company:		NOM	100.	по
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: RAZ_ICLA.XLA		%SP211 (00)	Page	1

03 Label: Step: Raz_pv %M58.W Reset a fine posizionamento = 0 Movimento_pv Ps_f2 V200_1.2 Raz_pv == 0 $Raz_pv = 1$ %M58.W = 0x1 -] / [-—R T— _]>[_ %V4032.0 %V202b.1 %V200.2 %M58.W == 0x0 X_{end} V211_2.6 _]/[_ __R_T_ %V503.0 %V211.6 Sel_man_aut V20f_3.5 —]/[— %I4101.4 Raz_icla V211_2.7 ___R_T___ %V211.7 —] [— %V4031.2 goto(END) — (T)—

04 Label: Step: Raz_pv %M58.W = 1 Reset memorie

Res_emer	<pre>Vent_pdl_std != 0</pre>	Vacu_a]/[]	Sb_vent_a (S)	Blocco/sblocco ventose area A
%V4033.0	%I5200.B != 0x0	%I4200.4	%Q5201.2	
	Vent_pdl_add != 0	Vacu_bi	Sb_vent_b	Blocco/sblocco ventose area B
	%I5400.B != 0x0		%Q5201.3	
		Vacu_cl	Sb_vent_c	Blocco/sblocco ventose area C
			(S)	
		Vacu_d	Sb_vent_d	Blocco/sblocco ventose area D
]/[———] %I4200.7	(S) %Q5201.5	

Author:		NUM TOOLS		ר פ
Company:		NOM	1001	ГЭ
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: RAZ_ICLA.XLA		%SP211 (03)	Page	2

05 Label: Step: Raz_pv %M58.W = 1 $I_r_{syst1} = 0$ $I_r_{maskerr} = 0$ $I_r_syst = 0$ ____ т ___ — т — ____ т ___ — т — —— (T)—— M1532.W = 0x0 M151a.W = 0x0M7154.W = 0x0 M153e.W = 0x0%M7110.W = 0x0Init_can Init ICLA — (/) — %V700d.0 $Raz_pv = 22$ —— (T)—— M58.W = 0x16goto(END) —— (T)—

06 Label: Step: Raz_pv %M58.W = 22

Init_can] [Raz_pv = 2
Emer_gen]/[
	goto(END)

Author:		NUM	TOOL	Q
Company:		NOM	1001	
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: RAZ_ICLA.XLA		%SP211 (05)	Page	3

07 Label: LO Step: Raz_pv %M58.W = 2 Raz motori icla I_r_syst >= 0 I_r_syst <= 16 * (N_assi - 1)</pre> Raz_1[I_r_syst] ____]>[__ %V7010.6[%M7110.W] Prog_1[I_r_syst] ——— (R)— %V7010.2[%M7110.W] P_syncro_1[I_r_syst] ——— (R)—— %V7010.3[%M7110.W] Jog_1[I_r_syst] ——— (R)—— %V7010.5[%M7110.W] $I_r_syst += 16$ ——— (T)— %M7110.W += 0x10 goto(LO) —— (T)— 08 Label: Step: Raz_pv %M58.W = 2 $I_r_syst = 0$ —— (T) —— %M7110.W = 0x0 $Raz_pv = 3$ —— (T)—— M58.W = 0x3

Author:		NTTM	TOOLS	1
Company:		NOM	тоопа	
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: RAZ_ICLA.XLA		%SP211 (07)	Page	4

goto(END)

```
09 Label: LOOP3
                                  %M58.W = 3
                                                                              Reset maschere errori
                 Step: Raz pv
    I_r_{syst1} >= 0 I_r_{syst1} <= 16 * (N_assi - 1)
                                                                                                               (2)
                                                                                              (1)
                     ____]>[ __
     M7154.W >= 0x0 M7154.W <= 0x10 * (%V7002.B - 0x1)
                                                                           I_r_maskerr = I_r_syst1 / 16
                                                                                                              (3)
                                                                                         — т —
                                                                                                             —(T)—
                                                                                M153e.W = M7154.W / 0x10
                                                                                                        I_r_{syst1} += 16
                                                                                                         —— (T)—
                                                                                                        %M7154.W += 0x10
                                                                                                         goto(LOOP3)
                                                                                                          —— (T)—
   (1) %M1530.W = %M7154.W / 0x10 * 0x2 : I_r_biterr = I_r_syst1 / 16 * 2
   (2) V1202.W[M1530.W] = 0x0 : Tab_err1[I_r_biterr] = 0
   (3) V1401.B[M153e.W] = 0x0 : Mask_err1[I_r_maskerr] = 0
10 Label:
                  Step: Raz_pv
                                M58.W = 3
                                                                                                          C syncstart
                                                                                                                          start assi sincronizzato
                                                                                                            — (R)—
                                                                                                           %V700c.0
                                                                                                          Raz_pv = 4
                                                                                                           — (T)—
                                                                                                          M58.W = 0x4
                                                                                                           goto(END)
                                                                                                           — (T)—
11 Label: L1
                                M58.W = 4
                                                                          Abilitazione Prog motori Icla
                Step: Raz pv
     I_r_syst >= 0    I_r_syst <= 16 * (N_assi - 1)</pre>
                                                                                                        Raz_1[I_r_syst]
        ___]>[____
                   _____]>[ ___
                                                                                                         —— ( / ) —
     M7110.W >= 0x0 M7110.W <= 0x10 * (%V7002.B - 0x1)
                                                                                                       %V7010.6[%M7110.W]
                                                                                                       Prog_1[I_r_syst]
                                                                                                         ——(S)—
                                                                                                       %V7010.2[%M7110.W]
                                                                                                        I_r_syst += 16
                                                                                                          —— (T)—
                                                                                                        %M7110.W += 0x10
                                                                                                           goto(L1)
                                                                                                           — (T)—
                        Author:
                                                                                                                              NUM TOOLS
```

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Project: 1040_78.mch

Module: RAZ_ICLA.XLA

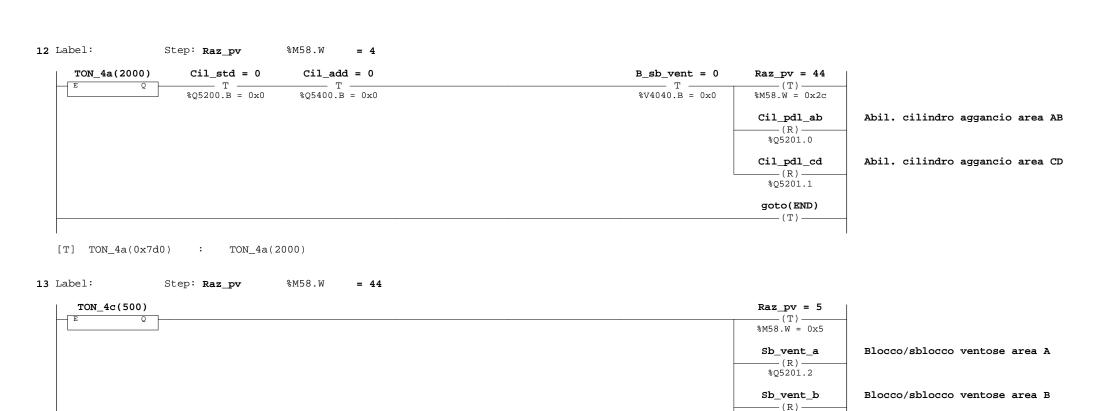
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Company:



[T] TON_4c(0x1f4) : TON_4c(500)

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Module: RAZ_ICLA.XLA		%SP211 (12)	Page	6

%Q5201.3 **Sb_vent_c**

(R) %Q5201.5 goto(END) ——(T)—— Blocco/sblocco ventose area C

Blocco/sblocco ventose area D

14 Label: M58.W = 5Step: Raz pv $Cil_std = 0$ $Cil_pv = 0$ Sb_pdl_ab sblocco pdl area AB — т — — т — — (R)— 205200.B = 0x0205201.B = 0x0%Q5201.6 $I_i_i = 0$ $I_biterr = 0$ $I_r_{syst1} = 0$ $I_r_{maskerr} = 0$ Cil add = 0Sb_pdl_cd sblocco pdl area CD $I_r_syst = 0$ — т — — т — — т — — т — — т — — т — — (R)— M1532.W = 0x0M151a.W = 0x0M7154.W = 0x0M153e.W = 0x0M7110.W = 0x0%Q5201.7 Q5400.B = 0x0Setup piani e ventose in corso Msg_183 — (R)— %V3036.0 Appoggio MSG 129 App_msg129 — (R)— %V4033.5 bit per timer di attesa aggancio Time_agg — (R)-%V4033.6 **15** Label: %M58.W = **5** Step: Raz_pv Raz_icla Reset a fine posizionamento moto — (R)— %V4031.2 Res emer Raz pv = 0—] / [— — (T) — %V4033.0 M58.W = 0x0Res_emer TON_6f(2000) $Raz_pv = 1$ —][— —— (T)— %V4033.0 %M58.W = 0x1Res emer — (R)— %V4033.0 Msg_psf2 — (R)— %V4031.3 goto(END) —(T)— [T] TON_6f(0x7d0) : TON_6f(2000)

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Step:

16 Label: END

PLC Rel.68 Ricavato dal PLC 60 Gestione gruppo X5 con magazzino posteriore 24 posizioni. Gestione macchina Top antine nuova. ---- Bolla N. 4563 -----27/02/2004 Modifica gestione pigna seriale, azzeramento variabili in caso di errore su seriale. Moduli : Ps_pigna.xla %SP40 10/03/2004 Modifica per abilitare la verifica elettromandrino in rotazione tramite assenza segnale di zero_speed. Modifica per non abilitare rotazione motori 50Hz in modalità setting. Moduli : Test_m.xla %SP6 Vis_msg.xla %SP30 G_inverter.xla %SP50 22/07/2004 Modifica gestione posizionamento magazzino in posizione Y+ dopo ciclo dente /dente.

Moduli :

Dente.xpi %8088

22/07/2004

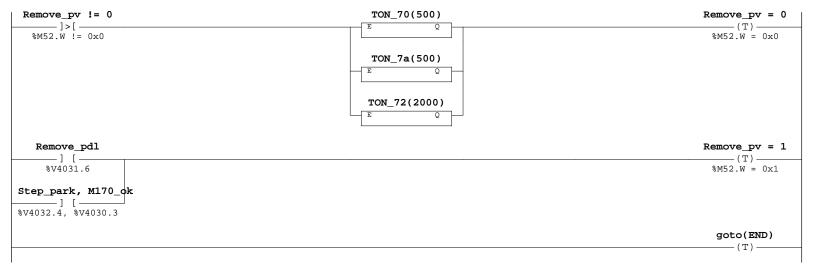
Modifica gestione elettromandrino senza utensile con refrigeratore spento in automantico.

Moduli :

Elmand_1.xla %SP50

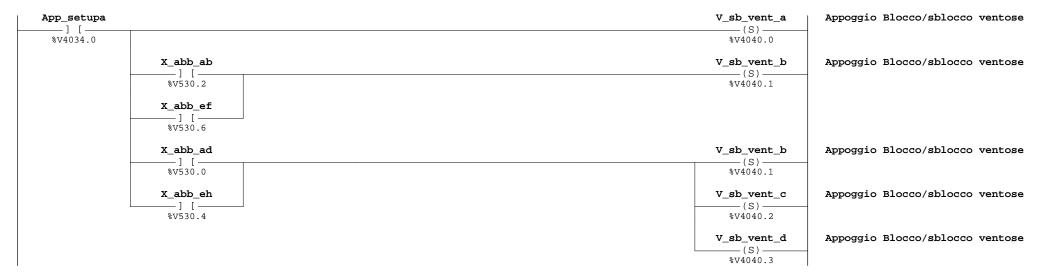
Author: Company:		NUM	TOOLS	3
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Module: PEADME YTY			Page	1

00 Label: Step: Remove pv %M52.W = 0



01 Label: Step: Remove_pv %M52.W = 1

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Module: REM_PV.XLA		%SP218 (00)	Page	1

02 Label: %M52.W Step: Remove_pv = 1 App_setupb V_sb_vent_b Appoggio Blocco/sblocco ventose —(S)-%V4034.1 %V4040.1 X abb ab V_sb_vent_a Appoggio Blocco/sblocco ventose -][--(S)-%V530.2 %V4040.0 X_abb_ef _1 [_ %V530.6 V_sb_vent_c Appoggio Blocco/sblocco ventose App_setupc ___] [___ %V4034.2 —(S)-%V4040.2 V_sb_vent_d Appoggio Blocco/sblocco ventose X_abb_cd -(S)-- 1 [-%V530.1 %V4040.3 X_abb_gh —][-%V530.5 03 Label: Step: Remove_pv %M52.W = 1 App_setupd V_sb_vent_d Appoggio Blocco/sblocco ventose -(S)-%V4034.3 %V4040.3 X_abb_cd V_sb_vent_c Appoggio Blocco/sblocco ventose —(S)-%V4040.2 %V530.1 X abb gh _][_ %V530.5 X_abb_ad V_sb_vent_a Appoggio Blocco/sblocco ventose _ 1 [-—(S)-%V530.0 %V4040.0 X_abb_eh V_sb_vent_b Appoggio Blocco/sblocco ventose -] [-—(S)-%V530.4 %V4040.1 V_sb_vent_c Appoggio Blocco/sblocco ventose —(S)-%V4040.2

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Company:		NOM	100.	по
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04 Label: %M52.W = 1 Step: Remove_pv $Index_10 = 0$ Remove_pdl Start ciclo di parcheggio e rimo — т — ----(R)----%V4031.6 %M1112.W = 0x0Step_park, M170_ok (1) —(F)— %V4032.4, %V4030.3 $M1518 = Index_170$ —— (Т) — %M1518.W = %V402c.W (2) —(T)— M170_ok lettura valore 170 — (R) – %V4030.3 Step_park fine posizionamento step PARCHEG — (R)-%V4032.4 (1) %M1518.W = %V4038.W : M1518 = Index_remove

(2) %V402e.W = %M1518.W Index_plc = M1518

05 Label: M52.W = 1Step: Remove_pv

Remove_pv = 10 goto(END) — (T)—

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Company:		MOM	тоопр	1
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```
06 Label: Step: Remove_pv %M52.W = 10
```

Tab_pm[M1518] == 167		Remove_pv = 11	
		%M52.W = 0xb	
Tab_pm[M1518] == 164		Remove	bit MSG rimozione ventose
		%V4033.4	
Tab_pm[M1518] == 168	V_sb_vent_a	Sb_vent_a	Blocco/sblocco ventose area A
%V5000.L[%M1518.W] == 0xa8	%V4040.0	(S)———(S)——————————————————————————————	
Tab_pm[M1518] == 999	V_sb_vent_b	Sb_vent_b	Blocco/sblocco ventose area B
%V5000.L[%M1518.W] == 0x3e7	%V4040.1	(S)	
	V_sb_vent_c	Sb_vent_c	Blocco/sblocco ventose area C
	%V4040.2	~(S) ~ %Q5201.4	
	V_sb_vent_d	Sb_vent_d	Blocco/sblocco ventose area D
	%V4040.3	(S)	

07 Label: Step: Remove_pv %M52.W = 10

Tab_pm[M1518] == 168	Ps_f5 M1518 = Index	<pre>c_remove Remove_pv = 40</pre>	
%V5000.L[%M1518.W] == 0xa8	%V202b.2		
Tab_pm[M1518] == 164		Remove (R)	bit MSG rimozione ventose
%V5000.L[%M1518.W] == 0xa4		%V4033.4	
Tab_pm[M1518] == 999 			
(1) (2) (3)	Tab_pm[M1518] != 999	Alarm_pgm	tentativo di posizionare una ven
]>[]>[]>[]>[]>[]>[]>[[%M1518.W] != 0x3e7	*V4031.5	
		Remove_pv = 99	
		%M52.W = 0x63	
		goto(END)(T)	

(1) %V5000.L[%M1518.W] != 0xa4 : Tab_pm[M1518] != 164 (2) %V5000.L[%M1518.W] != 0xa7 : Tab_pm[M1518] != 167 (3) %V5000.L[%M1518.W] != 0xa8 : Tab_pm[M1518] != 168

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```
08 Label: Q_RIT2 Step: Remove_pv %M52.W = 11
                                                                         Indice ventosa o piano
  | M1518 = M1518 + 4
                                                                                                         (1)
   M1518.W = M1518.W + 0x4
   (1) M1514.W = V5000.L[M1518.W] : M1514 = Tab_pm[M1518]
09 Label: Step: Remove_pv %M52.W = 11
                                                                             Indice Motore
   | M1518 = M1518 + 4
                                                                                                         (1)
                                                                                                        (T)-
   %M1518.W = %M1518.W + 0x4
   (1) %M1512.W = (%V5000.L[%M1518.W] - 0x1) * 0x10 : M1512 = (Tab_pm[M1518] - 1) * 16
                                                                         Indice Quota comandata
10 Label:
             Step: Remove_pv %M52.W
                                            = 11
                                                                                                         (1)
   (1) M1518.W = M1518.W + 0x4 : M1518 = M1518 + 4
11 Label: Step: Remove_pv %M52.W
                                                                      index_1 = no piano o ventosa
                                            = 11
     Index_1 = 10
                   Index_2 = 0
                                                                                                    Index_8 = 0
                                                                                                      — (T)—
     M1100.W = 0xa
                    M1102.W = 0x0
                                                                                                   M110e.W = 0x0
```

Autl	hor:		NUM	TOOLS	
Comp	pany:		NOM	тоопр	
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```
12 Label: FASE11
                                      %M52.W = 11
                                                                        Predisposizione start Syncro (ritorno)
                 Step: Remove pv
   M1514 == Index_1
                                      Tab_pm[M1518] != Piano_10[Index_8]
                                                                                                                   (1)
        ___]>[__
                                                                                                                 -(S)-
    %M1514.W == %M1100.W
                                      %V5000.L[%M1518.W] != %M2010.L[%M110e.W]
                                                                                                               Move ok
                                                                                                                              Predisposizione start motori
                                                                                                               — (S) –
                                                                                                               %V4030.0
                                                                                                            goto(FASE11A)
                                                                                                             —— (T)—
                                                                                                             Index_1 += 1
                                                                                                               —— (T)——
                                                                                                            %M1100.W += 0x1
                                                                                                             Index_2 += 1
                                                                                                              —— (T)——
                                                                                                            %M1102.W += 0x1
                                                                                                             Index 8 += 4
                                                                                                             —— (T)——
                                                                                                            M110e.W += 0x4
   (1) %V7010.3[%M1512.W] : P_syncro_1[M1512]
13 Label:
                   Step: Remove_pv %M52.W = 11
     Index 1 > 126
                                                                                                              Alarm pgm
                                                                                                                              tentativo di posizionare una ven
      ____]>[___
                                                                                                               — ( ) —
     M1100.W > 0x7e
                                                                                                               %V4031.5
                                                                                                            Remove pv = 99
                                                                                                               — (T)—
                                                                                                             M52.W = 0x63
      Index_2 < 7
                                                                                                             goto(FASE11)
      ____]>[___
                                                                                                               — (T) —
     %M1102.W < 0x7
     Index 2 == 7
                                                                           Index 2 = 0
                                                                                        Index_1 += 3
                                                                                           ____ т ___
       ____]>[___
                                                                            — т —
     M1102.W == 0x7
                                                                          M1102.W = 0x0
                                                                                           %M1100.W += 0x3
14 Label: FASE11A Step: Remove pv
                                   M52.W = 11
                                                                             Assegnazione Quota comandata
     Index 1 = 10
                       Index 2 = 0
                                                                                                             Index 8 = 0
        — т ——
                        — т —
                                                                                                                — (T)—
     M1100.W = 0xa
                       M1102.W = 0x0
                                                                                                             M110e.W = 0x0
                         Author:
                                                                                                                                  NUM TOOLS
                         Company:
```

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```
15 Label: FASE11B Step: Remove_pv %M52.W = 11
   M1514 == Index_1
                                                                                                             (1)
        ___]>[___
                                                                                                            — (T) —
    %M1514.W == %M1100.W
                                                                                                        goto(FASE11C)
                                                                                                        —— (T)—
                                                                                                        Index 1 += 1
                                                                                                          —— (T)——
                                                                                                        %M1100.W += 0x1
                                                                                                        Index_2 += 1
                                                                                                         —— (T)——
                                                                                                        %M1102.W += 0x1
                                                                                                        Index_8 += 4
                                                                                                         —— (T)——
                                                                                                        %M110e.W += 0x4
   (1) %V7012.L[%M1512.W] = %M2010.L[%M110e.W] : Q_prog_1[M1512] = Piano_10[Index_8]
16 Label:
                Step: Remove_pv %M52.W = 11
     Index_1 > 126
                                                                                                         Alarm pgm
                                                                                                                        tentativo di posizionare una ven
       ___]>[___
                                                                                                           ___( ) __
     %M1100.W > 0x7e
                                                                                                          %V4031.5
                                                                                                       Remove pv = 99
                                                                                                         —— (T)——
                                                                                                        M52.W = 0x63
     Index_2 < 7
                                                                                                        goto(FASE11B)
      ____]>[___
                                                                                                        ——(T)—
     %M1102.W < 0x7
                                                                                      Index_1 += 3
     Index_2 == 7
                                                                        Index_2 = 0
      ____]>[____
                                                                                       — т —
     M1102.W == 0x7
                                                                       M1102.W = 0x0 M1100.W += 0x3
17 Label: FASE11C Step: Remove_pv %M52.W = 11
                                                                                Indice velocità
                                                                                                              (1)
   (1) M1518.W = M1518.W + 0x4 : M1518 = M1518 + 4
```

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```
18 Label:
                                   %M52.W = 11
                   Step: Remove pv
                                                                              Assegnazione Velocità
                                                                                                                (1)
   (1) %V7016.W[%M1512.W] = %V4400.L : Feed_1[M1512] = Velocita
19 Label:
                Step: Remove_pv %M52.W = 11
                                                                                                                (1)
   (1) %M1518.W = %M1518.W + 0x8 : M1518 = M1518 + 8
                 Step: Remove_pv %M52.W
                                                                                 Verifica indice
20 Label:
                                               = 11
    Tab_pm[M1518] == 167
                                                                                                          goto(Q_RIT2)
                                                                                                            — (T) —
    %V5000.L[%M1518.W] == 0xa7
    Tab_pm[M1518] == 170
                                                                       Index 170 = M1518 + 4
                                                                                                            M170 ok
                                                                                                                           lettura valore 170
        ___]>[___
                                                                           — т —
                                                                                                            — (S)—
    %V5000.L[%M1518.W] == 0xaa
                                                                 V402c.W = M1518.W + 0x4
                                                                                                            %V4030.3
                                                                                                         Remove_pv = 12
                                                                                                            — (T)—
                                                                                                           %M52.W = 0xc
           (1) Tab_pm[M1518] != 170
                                                                                                           Alarm pgm
                                                                                                                           tentativo di posizionare una ven
                     ____]>[__
                                                                                                             — ( ) —
              %V5000.L[%M1518.W] != 0xaa
                                                                                                            %V4031.5
                                                                                                         Remove pv = 99
                                                                                                             — (T)—
                                                                                                          M52.W = 0x63
                                                                                                           goto(END)
                                                                                                            — (T)—
   (1) %V5000.L[%M1518.W] != 0xa7 : Tab_pm[M1518] != 167
```

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Module: REM_PV.XLA		%SP218 (18)	Page	8

21 Label:	Step: Remove_pv	%M52.W = 12	Reset dispositivo di aggancio		
			c	Cil_std = 0	
			%Q	Q5200.B = 0x0	
			C	Cil_pdl_ab	Abil. cilindro aggancio area AB
				(R) ————————————————————————————————————	
			C	Cil_pdl_cd	Abil. cilindro aggancio area CD
				(R)	
			c	Cil_add = 0	
			%Q	${25400.B} = 0x0$	
22 Label:					
22 Label.	Step: Remove_pv	%M52.W = 12	Start asse n se predisposto e posiz. pistone a	quota corr.	
(1)	Pdl_ab	Pdl_cd	Vent_pdl_add == 0	Start_move	start movimentazione motori
					start movimentazione motori
(1)	Pdl_ab	Pdl_cd	Vent_pdl_add == 0 S	Start_move (S) %V4030.7 move_pv = 13	start movimentazione motori
(1)	Pdl_ab	Pdl_cd	Vent_pdl_add == 0 S	Start_move (S) %V4030.7	start movimentazione motori
(1)	Pdl_ab	Pdl_cd	Vent_pdl_add == 0	Start_move (S) %V4030.7 move_pv = 13 (T)	start movimentazione motori
]>[—	Pd1_ab]/[Pdl_cd]/[%I5201.1	Vent_pdl_add == 0	Start_move(S) %V4030.7 move_pv = 13(T)	start movimentazione motori
]>[-	Pdl_ab	Pdl_cd]/[%I5201.1	Vent_pdl_add == 0	Start_move(S) %V4030.7 move_pv = 13(T)	start movimentazione motori
]>[-	Pd1_ab]/[Pdl_cd]/[%I5201.1	Vent_pdl_add == 0	Start_move(S) %V4030.7 move_pv = 13(T)	start movimentazione motori
]>[-	Pd1_ab]/[Pdl_cd]/[%I5201.1	Vent_pdl_add == 0	Start_move(S) %V4030.7 move_pv = 13(T)	start movimentazione motori

Author:
Company:

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```
23 Label:
                                     %M52.W = 13
                   Step: Remove_pv
       End_move
                                                                                                              End_move
                                                                                                                             movimentazione motori eseguita
                                                                                                               —(R)—
        %V4031.0
                                                                                                              %V4031.0
                                                                                                             Sb_pdl_ab
                                                                                                                             sblocco pdl area AB
                                                                                                               —(R)—
                                                                                                              %Q5201.6
                                                                                                             Sb_pdl_cd
                                                                                                                             sblocco pdl area CD
                                                                                                              — (R)-
                                                                                                              %Q5201.7
                                                                                                           Remove_pv = 20
                                                                                                            goto(END)
                                                                                                              — (T) —
24 Label:
                                    %M52.W
                   Step: Remove_pv
                                                = 20
                                                                                           Index_2 = 0
                                                                                                           Remove_pv = 21
                                                                                             — т —
                                                                                                              — (T)—
                                                                                           %M1102.W = 0x0
                                                                                                            %M52.W = 0x15
                                                                                                             goto(END)
                                                                                                               — (T) —
                   Step: Remove_pv
25 Label:
                                     %M52.W
                                                = 21
                                                                                Indice di Spaziamento
                                                                                                                  (1)
                                                                                                                -(T)-
                                                                                                           Remove_pv = 22
                                                                                                               — (T) —
                                                                                                            %M52.W = 0x16
                                                                                                             goto(END)
                                                                                                              — (T)—
   (1) %M1518.W = %V402e.W : M1518 = Index_plc
```

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```
Tab_pm[M1518] == 167
                                                                                                            Remove_pv = 23
        ___]>[___
                                                                                                                — (T) —
    %V5000.L[%M1518.W] == 0xa7
                                                                                                              %M52.W = 0x17
    Tab_pm[M1518] != 167
                                                                                                               Alarm_pgm
                                                                                                                               tentativo di posizionare una ven
        — ] > [ —
                                                                                                                — ( ) —
    %V5000.L[%M1518.W] != 0xa7
                                                                                                               %V4031.5
                                                                                                            Remove pv = 99
                                                                                                                — (T)—
                                                                                                              M52.W = 0x63
                                                                                                               goto(END)
                                                                                                               —— (T) —
27 Label: Q SETUP2 Step: Remove pv %M52.W
                                                = 23
                                                                                Indice ventosa o piano
   M1518 = M1518 + 4
                                                                                                                   (1)
       — т —
   M1518.W = M1518.W + 0x4
   (1) %M1514.W = %V5000.L[%M1518.W] : M1514 = Tab_pm[M1518]
28 Label:
                                                                         Appoggio su V4000 piano e ventose PGM
                   Step: Remove pv
                                      %M52.W
                                                 = 23
                                                                                                                   (1)
                                                                                                                 -(T)-
                                                                                                             Index_10 += 1
                                                                                                                — (T)—
                                                                                                             %M1112.W += 0x1
   (1) %V4000.B[%M1112.W] = %M1514.W : V4000[Index_10] = M1514
29 Label:
                                                                                    Indice Motore
                   Step: Remove_pv %M52.W
                                                 = 23
   M1518 = M1518 + 4
                                                                                                                   (1)
        — т —
                                                                                                                  (T)-
   M1518.W = M1518.W + 0x4
   (1) M1512.W = (V5000.L[M1518.W] - 0x1) * 0x10 : M1512 = (Tab_pm[M1518] - 1) * 16
```

Author:		NUM	TOO	T.C
Company:		NOM	100	ПО
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: REM_PV.XLA		%SP218 (26)	Page	11

%M52.W = 22

Step: Remove pv

26 Label:

```
30 Label:
                                 %M52.W = 23
                                                                           Indice Quota comandata
                 Step: Remove pv
                                                                                                           (1)
   (1) %M1518.W = %M1518.W + 0x4 : M1518 = M1518 + 4
31 Label:
         Step: Remove_pv
                                 %M52.W = 23
     Index_1 = 10
                     Index_2 = 0
                                     Index_3 = 0
                                                                                                      Index_8 = 0
        — т ——
                      — т —
                                      — т —
                                                                                                        — (T)—
     M1100.W = 0xa
                  M1102.W = 0x0
                                     M1104.W = 0x0
                                                                                                      M110e.W = 0x0
32 Label: FASE23 Step: Remove pv
                                   %M52.W = 23
   M1514 == Index_1
                                   Tab_pm[M1518] != Piano_10[Index_8]
                                                                                                           (1)
       %M1514.W == %M1100.W
                                   %V5000.L[%M1518.W] != %M2010.L[%M110e.W]
                                                                                                 Sincro_10_[Index_3]
                                                                                                     ——(S)—
                                                                                                    %V4500.3[%M1104.W]
                                                                                                        Move ok
                                                                                                                      Predisposizione start motori
                                                                                                       — (S)—
                                                                                                       %V4030.0
                                                                                                     goto(FASE23A)
                                                                                                      ——(T)—
  (1) %V7010.3[%M1512.W] : P_syncro_1[M1512]
                 Step: Remove_pv %M52.W = 23
33 Label:
                                                                                                     Index_1 += 1
                                                                                                        — (T)—
                                                                                                     M1100.W += 0x1
                                                                                                     Index_3 += 1
                                                                                                        — (T)—
                                                                                                     %M1104.W += 0x1
                                                                                                     Index 2 += 1
                                                                                                       —— (T)——
                                                                                                     %M1102.W += 0x1
                                                                                                     Index_8 += 4
                                                                                                        — (T)—
                                                                                                     M110e.W += 0x4
                       Author:
                                                                                                                          NUM TOOLS
```

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Company:

Project: 1040_78.mch

Module: **REM_PV.XLA**

Page %SP218 (30)

Date

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28-02-2018

```
Index_1 > 126
                                                                                                  Alarm_pgm
                                                                                                                 tentativo di posizionare una ven
       ___ ]>[ ___
                                                                                                    __()__
     %M1100.W > 0x7e
                                                                                                   %V4031.5
                                                                                                Remove_pv = 99
                                                                                                   —— (T) —
                                                                                                 M52.W = 0x63
     Index 2 < 7
                                                                                                 goto(FASE23)
      ____]>[___
                                                                                                  —— (T)—
     %M1102.W < 0x7
    Index_2 == 7
                                                                   Index_2 = 0
                                                                                  Index_1 += 3
     ____1>[ ____
                                                                    — т —
                                                                                  — т —
    M1102.W == 0x7
                                                                  M1102.W = 0x0
                                                                                 %M1100.W += 0x3
35 Label: FASE23A Step: Remove pv %M52.W = 23
     Index_1 = 10
                    Index_2 = 0
                                    Index_3 = 0
                                                                                                  Index_8 = 0
       — т ——
                     — т —
                                    — т —
                                                                                                   — (T)—
     M1100.W = 0xa
                    M1102.W = 0x0
                                   M1104.W = 0x0
                                                                                                 M110e.W = 0x0
36 Label: FASE23B Step: Remove_pv %M52.W = 23
                  Tab_pm[M1518] < Piano_10[Index_8]</pre>
          (1)
                                                                                                      (2)
                   _____]>[ ____
           %V5000.L[\$M1518.W] < \$M2010.L[\$M110e.W]
           Tab_pm[M1518] > Piano_10[Index_8]
                                                                                                      (3)
                   ____]>[ ___
                                                                                                    —(T)—
           %V5000.L[\$M1518.W] > \$M2010.L[\$M110e.W]
                                                                                             Recup_10_[Index_3]
                                                                                                  ——(S)—
                                                                                               %V4500.4[%M1104.W]
                                                                                                  goto(SALTO)
                                                                                                    — (T) —
   (1) M1514.W == M1100.W : M1514 == Index_1
   (3) %V7012.L[%M1512.W] = %V5000.L[%M1518.W] + %V1290.B[%M1104.W] : Q_prog_1[M1512] = Tab_pm[M1518] + Tab_asola[Index_3]
```

%M52.W = 23

Step: Remove pv

Author:		NUM	TOO	ד כ <i>י</i>
Company:		NOM	1001	ПО
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34 Label:

```
37 Label:
                                    %M52.W = 23
                   Step: Remove pv
                                                                                                           Index_1 += 1
                                                                                                              — (T)—
                                                                                                           %M1100.W += 0x1
                                                                                                           Index_2 += 1
                                                                                                              — (T)—
                                                                                                           %M1102.W += 0x1
                                                                                                           Index 3 += 1
                                                                                                              — (T)—
                                                                                                           %M1104.W += 0x1
                                                                                                           Index_8 += 4
                                                                                                              — (T)—
                                                                                                           M110e.W += 0x4
38 Label:
                  Step: Remove pv
                                   %M52.W = 23
     Index_1 > 126
                                                                                                             Alarm_pgm
                                                                                                                            tentativo di posizionare una ven
       ____]>[___
                                                                                                               — ( ) –
     %M1100.W > 0x7e
                                                                                                             %V4031.5
                                                                                                          Remove_pv = 99
                                                                                                              — (T)—
                                                                                                            %M52.W = 0x63
     Index 2 < 7
                                                                                                           goto(FASE23B)
      ____]>[___
                                                                                                              — (T) —
     %M1102.W < 0x7
     Index_2 == 7
                                                                          Index_2 = 0
                                                                                          Index_1 += 3
      ____]>[___
                                                                                           — т —
     M1102.W == 0x7
                                                                         M1102.W = 0x0
                                                                                          %M1100.W += 0x3
39 Label: SALTO
                                   %M52.W = 23
                                                                                  Indice velocità
                  Step: Remove pv
                                                                                                                 (1)
   (1) M1518.W = M1518.W + 0x4
                                  M1518 = M1518 + 4
40 Label:
                  Step: Remove_pv
                                   %M52.W
                                                = 23
                                                                               Assegnazione Velocità
                                                                                                                 (1)
   (1) %V7016.W[%M1512.W] = %V4400.L : Feed_1[M1512] = Velocita
                        Author:
                                                                                                                                NUM TOOLS
                        Company:
```

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Date 28-02-2018 Page %SP218 (37)

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Project: 1040_78.mch

Module: REM_PV.XLA

```
41 Label:
                                        %M52.W
                                                                                        incremento indice
                    Step: Remove pv
                                                   = 23
                                                                                                                          (1)
   (1) %M1518.W = %M1518.W + 0x8
                                           M1518 = M1518 + 8
42 Label:
                    Step: Remove_pv
                                        %M52.W
                                                    = 23
                                                                                         Verifica indice
    Tab_pm[M1518] == 167
                                                                                                                   goto(Q_SETUP2)
                                                                                                                       — (T)—
    %V5000.L[%M1518.W] == 0xa7
    Tab_pm[M1518] == 170
                                                                             V4000[Index 10] = 127
                                                                                                                   Remove pv = 24
                                                                                  — т —
         — l>[ —
                                                                                                                       — (T)—
    %V5000.L[%M1518.W] == 0xaa
                                                                       V4000.B[M1112.W] = 0x7f
                                                                                                                    %M52.W = 0x18
            (1)
                      Tab_pm[M1518] != 170
                                                                                                                     Alarm pgm
                                                                                                                                      tentativo di posizionare una ven
                       ____]>[_
                                                                                                                       _ ( ) _
               %V5000.L[%M1518.W] != 0xaa
                                                                                                                      %V4031.5
                                                                                                                   Remove pv = 99
                                                                                                                      — (T)—
                                                                                                                    M52.W = 0x63
                                                                                                                      qoto(END)
                                                                                                                      —— (T)—
   (1) %V5000.L[%M1518.W] != 0xa7 :
                                            Tab_pm[M1518] != 167
43 Label:
                    Step: Remove_pv
                                        %M52.W
                                                   = 24
       P_syncro_1
                        Pistab no ok
                                                                                                                     Cil_pdl_ab
                                                                                                                                      Abil. cilindro aggancio area AB
                            — ] / [ —
                                                                                                                        —(S)-
        %V7010.3
                           %V4561.4
                                                                                                                       %Q5201.0
                        Pistab_no_ok
                                                                                                                     Cil_pdl_ab
                                                                                                                                      Abil. cilindro aggancio area AB
                            _ 1 [ _
                                                                                                                       — (R)-
                           %V4561.4
                                                                                                                      %Q5201.0
       P_syncro_2
                        Pistcd_no_ok
                                                                                                                     Cil_pdl_cd
                                                                                                                                      Abil. cilindro aggancio area CD
        ---] [----
%V7020.3
                            — 1 / f —
                                                                                                                       —(S)-
                           %V4561.5
                                                                                                                      %Q5201.1
                        Pistcd no ok
                                                                                                                     Cil_pdl_cd
                                                                                                                                      Abil. cilindro aggancio area CD
                           —] [ —
                                                                                                                       — (R)—
                           %V4561.5
                                                                                                                       %Q5201.1
```

Author:		NUM	TOO	r.s
Company:		11011	100.	
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44 Label: Step: F	Remove_pv	%M52.W	= 24
-------------------	-----------	--------	------

The state of the	ventose
] [
	ventose
P_syncro_4 Pist2_no_ok Cil_pdl_2 Abil. cilindro aggancio	ventose
\$V7040.3 \$V4560.1 \$Q5200.1	
Pist2_no_ok Cil_pdl_2 Abil. cilindro aggancio	ventose
\$V4560.1	
P_syncro_5 Pist3_no_ok Cil_pdl_3 Abil. cilindro aggancio	ventose
\$V7050.3 \$V4560.2 \$Q5200.2	
Pist3_no_ok Cil_pdl_3 Abil. cilindro aggancio	ventose
\$V4560.2	
5 Label: Step: Remove_pv %M52.W = 24	

45 Label:	Step: Remove r	ov %M52.W	= 24

P_syncro_6	Pist4_no_ok	Cil_pdl_4	Abil. cilindro aggancio ventose
%V7060.3]/[%V4560.3	(S)— %Q5200.3	
	Pist4_no_ok	Cil_pdl_4	Abil. cilindro aggancio ventose
	%V4560.3	(R)— %Q5200.3	
P_syncro_7	Pist5_no_ok	Cil_pdl_5	Abil. cilindro aggancio ventose
%V7070.3	%V4560.4	(S)— %Q5200.4	
	Pist5_no_ok	Cil_pdl_5	Abil. cilindro aggancio ventose
	%V4560.4	(R)— %Q5200.4	
P_syncro_8	Pist6_no_ok	Cil_pdl_6	Abil. cilindro aggancio ventose
%V7080.3	%V4560.5	(S)— %Q5200.5	
	Pist6_no_ok	Cil_pdl_6	Abil. cilindro aggancio ventose
	*V4560.5	(R)————————————————————————————————————	

Author:		NUM	TOOT	c
Company:		INOM	1001	1D
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46	Label:	Step:	Remove_pv	%M52.W	= 24
		~1-	102mo v C_p v		

P_syncro_9	Pist7_no_ok	Cil_pdl_7	Abil. cilindro aggancio ventose
%V7090.3]/[%V4560.6	(S)- %Q5200.6	
	Pist7_no_ok	Cil_pdl_7	Abil. cilindro aggancio ventose
	%V4560.6	%Q5200.6	
P_syncro_10	Pist8_no_ok	Cil_pdl_8 (S)	Abil. cilindro aggancio ventose
%V70a0.3	%V4560.7	%Q5200.7	
	Pist8_no_ok	Cil_pdl_8	Abil. cilindro aggancio ventose
	%V4560.7	%Q5200.7	
P_syncro_11	Pist9_no_ok	Cil_pdl_9	Abil. cilindro aggancio ventose
%V70b0.3	%V4561.0	%Q5400.0	
	Pist9_no_ok	Cil_pdl_9 (R)	Abil. cilindro aggancio ventose
	%V4561.0	%Q5400.0	

47 Label: Step: Remove_pv %M52.W = 24

P_syncro_12	Pist10_no_ok	Cil_pdl_10 (S)	Abil. cilindro aggancio ventose
%V70c0.3	%V4561.1	%Q5400.1	
	Pist10_no_ok	Cil_pdl_10 (R)	Abil. cilindro aggancio ventose
	%V4561.1	%Q5400.1	
P_syncro_13	Pist11_no_ok	Cil_pdl_11 (S)	Abil. cilindro aggancio ventose
%V70d0.3	%V4561.2	%Q5400.2	
	Pist11_no_ok	Cil_pdl_11	Abil. cilindro aggancio ventose
	%V4561.2	(R) %Q5400.2	
P_syncro_14	Pist12_no_ok	Cil_pdl_12	Abil. cilindro aggancio ventose
%V70e0.3	%V4561.3	(S) %Q5400.3	
	Pist12_no_ok	Cil_pdl_12	Abil. cilindro aggancio ventose
	%V4561.3	(R)— %Q5400.3	

Author:		NTTM	TOOL	d
Company:		NOM	TOOL	10
Project: 1040_78.mch	TITRE		Date	28-02-2018
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48 Label:

Step: Remove_pv %M52.W = **24**

Vent_pdl_1	Vent_pdl_2	Vent_pdl_3	Vent_pdl_4	Vent_pdl_5	Vent_pdl_6	Input_1_6	input pistoncini ventose: piani
%I5200.0	%I5200.1	%I5200.2	%I5200.3	%I5200.4	%I5200.5	%V4033.1	
Cil_pdl_1	Cil_pdl_2	Cil_pdl_3	Cil_pdl_4	Cil_pdl_5	Cil_pdl_6		
%Q5200.0	%Q5200.1	%Q5200.2	%Q5200.3	%Q5200.4	%Q5200.5		
Vent_pdl_7	Vent_pdl_8	Vent_pdl_9	Vent_pdl_10	Vent_pdl_11	Vent_pdl_12	Input_7_12	input pistoncini ventose: piani
%I5200.6	%I5200.7	%15400.0	%I5400.1	%I5400.2	%I5400.3	%V4033.2	
Cil_pdl_7	Cil_pdl_8	Cil_pdl_9	Cil_pdl_10	Cil_pdl_11	Cil_pdl_12		
%Q5200.6	%Q5200.7	%Q5400.0	%Q5400.1	%Q5400.2	%Q5400.3		
Pdl_ab	Pdl_cd					Input_ab_cd	input pistoncini piani area AB,
%I5201.0	%I5201.1					%V4033.3	
Cil_pdl_ab	Cil_pdl_cd						
%Q5201.0	%Q5201.1	ı					

49 Label: Step: Remove_pv %M52.W = 24

Fine_tent						Time_agg	bit per timer di attesa aggancio
%V4562.0						%V4033.6	
Time_agg	Fine_tent	Input_1_6	Input_7_12	Input_ab_cd	TON_72(2000)	Ps_ledf4	Led tasto F4
%V4033.6	%V4562.0	%V4033.1	%V4033.2	%V4033.3	E Q	%V200c.5	
(1)	T_in_corso	Fine_tent	TON_70(500)	Time_agg		Remove_pv = 25	
] [%V4562.1	%V4562.0	E Q	%V4033.6		%M52.W = 0x19	
				Ps_f4	Ps_ledf4	Time_agg	bit per timer di attesa aggancio
				%V202a.6	%V200c.5	(R) %V4033.6	
						Ps_ledf4	Led tasto F4
						(R)	
						goto(END)	
						(T)	

(1) %V4033.1, %V4033.2, %V4033.3 : Input_1_6, Input_7_12, Input_ab_cd

[T] TON_72(0x7d0) : TON_72(2000) [T] TON_70(0x1f4) : TON_70(500)

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Author:		NUM	TOO	T C
Company:		NOM	100.	по
Project: 1040_78.mch	TITRE		Date	28-02-2018
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el: S					
				Input_1_6	input pistoncini ventose:
				(R) %V4033.1	
				Tmmut 7 10	
				Input_7_12 (R)	input pistoncini ventose:
				%V4033.2	
				Input_ab_cd	input pistoncini piani are
				(R) %V4033.3	
				Fine_tent	
				(R)	
				%V4562.0	
				Agg_ok	
				*V4562.3	
	Step: Remove_pv V bl ab	%M52.W = 25	V bl b	(R)— %V4562.3	verifica sblocco avvenuto
Sb_vent_a] [v_bl_ab	Sb_vent_b	V_bl_b	(R) %V4562.3 Check_ab	verifica sblocco avvenuto
Sb_vent_a	V_bl_ab	Sb_vent_b		(R) %V4562.3 Check_ab	verifica sblocco avvenuto
Sb_vent_a] [v_bl_ab	Sb_vent_b 		(R) %V4562.3 Check_ab	verifica sblocco avvenuto
Sb_vent_a][%Q5201.2	v_bl_ab	Sb_vent_b] [%Q5201.3		(R) %V4562.3 Check_ab	verifica sblocco avvenuto
Sb_vent_a] [v_bl_ab	Sb_vent_b 		(R) %V4562.3 Check_ab	verifica sblocco avvenuto
Sb_vent_a] [V_bl_ab	Sb_vent_b	V_bl_cd	(R)	
Sb_vent_a] [V_bl_ab 	Sb_vent_b	7/[- %15201.6 V_bl_cd		
Sb_vent_a] [V_bl_ab	Sb_vent_b	V_bl_cd	(R)	

Author:		NITTM	TOOL	Q
Company:		MOM	TOOL	6
Project: 1040_78.mch	TITRE		Date	28-02-2018
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52 Label: Step: Remove_pv %M52.W = 25 Start asse n.... se predisposto e pos. a quota programma

Check_ab	Check_cd	Start_move
%V4032.5	\$V4032.6	(S) %V4030.7
		Check_ab
		(R)————————————————————————————————————
		Check_cd
		(R) %V4032.6
		Remove_pv = 2
		(T)
		goto(END)

start movimentazione motori

verifica sblocco avvenuto area A

verifica sblocco avvenuto area C

53 Label: Step: Remove_pv %M52.W = **26**

		Movimento_pv (S)	piani o ventose i
End_move] [] [Index_6 = 0 T %M110a.W = 0x0	End_move 	movimentazione mo
		Index_2 = 0 	
		Remove_pv = 31 (T) %M52.W = 0x1f	
		goto(END)	

in movimento

motori eseguita

Author: Company:		NUM TOOLS		
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: REM PV.XLA		%SP218 (52)	Page	20

```
54 Label: RESET
                                    %M52.W = 31
                   Step: Remove_pv
     Index_6 < 84
                                                                                                                 (1)
     %M110a.W < 0x54</pre>
                                                                                                               -(R)-
                                                                                                           Index_6 += 1
                                                                                                             — (Т) —
                                                                                                          %M110a.W += 0x1
                                                                                                           goto(RESET)
                                                                                                           —— (T)—
   (1) %V4500.3[%M110a.W] : Sincro_10_[Index_6]
55 Label:
                   Step: Remove_pv
                                   %M52.W = 31
                                                                               indice di spaziamento
     Index_10 = 0
                                                                                                                 (1)
        — т —
                                                                                                               —(T)—
     M1112.W = 0x0
                                                                                                             Sb_pdl_ab
                                                                                                                            sblocco pdl area AB
                                                                                                              —(R)-
                                                                                                             %Q5201.6
                                                                                                             Sb_pdl_cd
                                                                                                                            sblocco pdl area CD
                                                                                                              — (R)—
                                                                                                             %Q5201.7
                                                                                                          Remove_pv = 32
                                                                                                              — (T)—
                                                                                                           M52.W = 0x20
                                                                                                             goto(END)
                                                                                                              — (T)—
   (1) %M1518.W = %V402e.W : M1518 = Index_plc
```

Author:		NUM	TOOI	LS
Company:				
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: REM_PV.XLA		%SP218 (54)	Page	21

```
56 Label:
                                  %M52.W = 32
                 Step: Remove pv
   Tab_pm[M1518] == 167
                                                                                                       Remove_pv = 33
                                                                                                           — (T)—
      ____1>[___
   %V5000.L[%M1518.W] == 0xa7
                                                                                                        M52.W = 0x21
                                                                                                                         tentativo di posizionare una ven
   Tab_pm[M1518] != 167
                                                                                                         Alarm pgm
       ___]>[___
                                                                                                          — ( ) —
   %V5000.L[%M1518.W] != 0xa7
                                                                                                          %V4031.5
                                                                                                       Remove pv = 99
                                                                                                          — (T)—
                                                                                                        M52.W = 0x63
                                                                                                         goto(END)
                                                                                                          —— (T)—
57 Label: M CORR2 Step: Remove pv %M52.W = 33
   M1518 = M1518 + 4
                                                                                                              (1)
   M1518.W = M1518.W + 0x4
   (1) %M1514.W = %V5000.L[%M1518.W] : M1514 = Tab_pm[M1518]
58 Label:
                Step: Remove pv
                                    %M52.W = 33
     Index_1 = 10
                      Index_2 = 0
                                      Index_3 = 0
                                                                                                        Index_8 = 0
      — т —
                      — т —
                                       — т —
                                                                                                          — (T)—
     M1100.W = 0xa
                     M1102.W = 0x0
                                      M1104.W = 0x0
                                                                                                        M110e.W = 0x0
59 Label:
                  Step: Remove_pv %M52.W = 33
                                                                            indice quota comandata
                                                                                                              (1)
   (1) %M1518.W = %M1518.W + 0x8 : M1518 = M1518 + 8
60 Label: FASE33 Step: Remove_pv %M52.W
                                            = 33
                                                                          Memorizzazione Quote ventose
   Index_1 == M1514
                                                      Index_10 += 1
                                                                                                              (1)
     ____]>[___
                                                        — т —
                                                                                                            -(T)-
   %M1100.W == %M1514.W
                                                      M1112.W += 0x1
                                                                                                        goto(FASE33A)
                                                                                                         —— (T)—
   (1) %M2010.L[%M110e.W] = %V5000.L[%M1518.W] : Piano_10[Index_8] = Tab_pm[M1518]
                       Author:
                                                                                                                             NUM TOOLS
                       Company:
                       Project: 1040_78.mch
                                                                                                                                     Date
                                                                                                                                                28-02-2018
                                                                                  TITRE
                                                                                                                                    Page
                       Module: REM_PV.XLA
                                                                                                                         %SP218 (56)
```

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```
61 Label:
                                    %M52.W = 33
                   Step: Remove_pv
                                                                                                            Index_1 += 1
                                                                                                               — (T)—
                                                                                                            %M1100.W += 0x1
                                                                                                            Index_2 += 1
                                                                                                               — (T)—
                                                                                                            %M1102.W += 0x1
                                                                                                            Index_3 += 1
                                                                                                               — (T)—
                                                                                                            %M1104.W += 0x1
                                                                                                            Index_8 += 4
                                                                                                              — (T)—
                                                                                                            %M110e.W += 0x4
62 Label:
                 Step: Remove_pv
                                   %M52.W = 33
     Index_1 > 126
                                                                                                             Alarm_pgm
                                                                                                                             tentativo di posizionare una ven
       ____]>[___
                                                                                                               __( )_
     %M1100.W > 0x7e
                                                                                                              %V4031.5
                                                                                                           Remove_pv = 99
                                                                                                               — (T)—
                                                                                                            %M52.W = 0x63
      Index 2 < 7
                                                                                                            goto(FASE33)
       ____]>[___
                                                                                                               — (T) —
     %M1102.W < 0x7
     Index_2 == 7
                                                                          Index_2 = 0
                                                                                           Index_1 += 3
      ____]>[____
                                                                                            — т —
     %M1102.W == 0x7
                                                                          M1102.W = 0x0
                                                                                          %M1100.W += 0x3
63 Label: FASE33A Step: Remove pv
                                   %M52.W = 33
                                                                                                                  (1)
   (1) M1518.W = M1518.W + 0xc : M1518 = M1518 + 12
```

Author:		NUM TOOLS		T.C
Company:		NOM	100.	по
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: REM_PV.XLA		%SP218 (61)	Page	23

64 Label: Step: Remove_pv %M52.W = 33

Tab_pm[M1518] == 167 goto(M_CORR2) ____]>[___ —— (T)— %V5000.L[%M1518.W] == 0xa7 Tab_pm[M1518] == 170 $Remove_pv = 34$ ___]>[___ — (T) — %V5000.L[%M1518.W] == 0xaa M52.W = 0x22(1) Tab_pm[M1518] != 170 Alarm_pgm ___]>[______]>[_____ ___() ___ %V5000.L[%M1518.W] != 0xaa %V4031.5 $Remove_pv = 99$ —— (T)— M52.W = 0x63goto(END) —— (T)—

tentativo di posizionare una ven

(1) %V5000.L[%M1518.W] != 0xa7 : Tab_pm[M1518] != 167

65 Label: Step: Remove_pv %M52.W = 34

	Movimento_pv (R) %V4032.0	piani o ventose in movimento
Cil_std = 0 %Q5200.B = 0x0	Cil_add = 0 (T)	
	Cil_pdl_ab (R)	Abil. cilindro aggancio area AB
	Cil_pdl_cd (R)	Abil. cilindro aggancio area CD

Author:		NTTM	TOOLS	
Company:		NOM	тоопр	
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```
66 Label:
                                        %M52.W = 34
                    Step: Remove pv
            (1)
                              (2)
                                         Pdl_ab, Pdl_cd
                                                             TON_7a(500)
                                                                                                                  Remove_pv = 35
                                              — ] / [ —
                                                                                                                       — (T)—
                                         %15201.0, %15201.1
                                                                                                                    M52.W = 0x23
                                                                                                                     Sb vent a
                                                                                                                                      Blocco/sblocco ventose area A
                                                                                                                       — (R)-
                                                                                                                      %Q5201.2
                                                                                                                     Sb vent b
                                                                                                                                      Blocco/sblocco ventose area B
                                                                                                                      —— (R)—
                                                                                                                      %05201.3
                                                                                                                     Sb vent c
                                                                                                                                      Blocco/sblocco ventose area C
                                                                                                                      —— (R) –
                                                                                                                      %05201.4
                                                                                                                                      Blocco/sblocco ventose area D
                                                                                                                     Sb_vent_d
                                                                                                                      — (R) –
                                                                                                                      %Q5201.5
                                                                                                                     goto(END)
                                                                                                                      — (T) —
   (1) %15200.B == 0x0 : Vent_pdl_std == 0
(2) %15400.B == 0x0 : Vent_pdl_add == 0
   [T] TON_{7a}(0x1f4) : TON_{7a}(500)
67 Label:
                    Step: Remove_pv
                                        %M52.W
                                                   = 35
                                                                                                                                      fine posizionamento step PARCHEG
                                                                                                                     Step_park
                                                                                                                       —(S)—
                                                                                                                      %V4032.4
                                                                                                                   Remove_pv = 0
                                                                                                                      — (T)—
                                                                                                                    M52.W = 0x0
                                                                                                                     goto(END)
                                                                                                                      — (T) —
68 Label: M_CORRF5 Step: Remove_pv
                                      %M52.W
                                                   = 40
    M1518 = M1518 + 4
                                                                                                                          (1)
         — т —
                                                                                                                        -(T)—
    M1518.W = M1518.W + 0x4
                                                                                                                   B_sb_vent = 0
                                                                                                                       — (T) —
                                                                                                                   %V4040.B = 0x0
   (1) %M1514.W = %V5000.L[%M1518.W] : M1514 = Tab_pm[M1518]
                          Author:
                                                                                                                                          NUM TOOLS
                          Company:
                          Project: 1040_78.mch
                                                                                                                                                   Date
                                                                                                                                                               28-02-2018
                                                                                           TITRE
                          Module: REM_PV.XLA
                                                                                                                                                   Page
                                                                                                                                                                       25
                                                                                                                                      %SP218 (66)
```

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69 Label: Step: Remove_pv	%M52.W = 40			
Index_1 = 10	Index_3 = 0		Index_8 = 0	
T T T T T T T T T T T T T T T T T T T	T		%M110e.W = 0x0	
			Sb_vent_a	Blocco/sblocco ventose area A
			(R) %Q5201.2	
			Sb_vent_b	Blocco/sblocco ventose area B
			(R)————————————————————————————————————	
			Sb_vent_c	Blocco/sblocco ventose area C
			(R)	
			Sb_vent_d	Blocco/sblocco ventose area D
			(R)	
70 Label: Step: Remove_pv	%M52.W = 40	Indice quota di prelievo		
1			(1)	<u> </u>
			(T)	
(1) %M1518.W = %M1518.W + 0x10 :	M1518 = M1518 + 16			'
71 Label: FASE40 Step: Remove_pv	%M52.W = 40			
Index_1 == M1514	Ind	ex_10 += 1 T	(1) (T)	
%M1100.W == %M1514.W	%M1	12.W += 0x1	(1)	
			goto(FASE40A)	
			(1)	
(1) %M2010.L[%M110e.W] = %V5000.L[%	M1518.W] : Piano	10[Index_8] = Tab_pm[M1518]		

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Company:		NOM	1001	ПО
Project: 1040_78.mch	TITRE		Date	28-02-2018
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```
72 Label:
                                     %M52.W = 40
                   Step: Remove_pv
                                                                                                               Index_1 += 1
                                                                                                                  — (T)—
                                                                                                              %M1100.W += 0x1
                                                                                                               Index_2 += 1
                                                                                                                  — (T)—
                                                                                                              %M1102.W += 0x1
                                                                                                               Index_3 += 1
                                                                                                                  — (T)—
                                                                                                               %M1104.W += 0x1
                                                                                                               Index_8 += 4
                                                                                                                 — (T)—
                                                                                                              %M110e.W += 0x4
73 Label:
                                     M52.W = 40
                   Step: Remove_pv
     Index_1 > 126
                                                                                                                Alarm_pgm
                                                                                                                                 tentativo di posizionare una ven
       ____]>[ ___
                                                                                                                  __ ( ) _
     %M1100.W > 0x7e
                                                                                                                 %V4031.5
                                                                                                              Remove_pv = 99
                                                                                                                  — (T)—
                                                                                                               %M52.W = 0x63
      Index 2 < 7
                                                                                                               goto(FASE40)
       ___]>[___
                                                                                                                  — (Т) —
     %M1102.W < 0x7
     Index_2 == 7
                                                                            Index_2 = 0
                                                                                             Index_1 += 3
       ___]>[___
                                                                                              — т —
     %M1102.W == 0x7
                                                                            *M1102.W = 0x0
                                                                                             %M1100.W += 0x3
74 Label: FASE40A Step: Remove pv
                                     M52.W = 40
                                                                                                                M1518 += 4
                                                                                                                  — (T) —
                                                                                                              %M1518.W += 0x4
```

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Company:		NOM	100.	ПЭ
Project: 1040_78.mch	TITRE		Date	28-02-2018
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75 Label: Step: Remove_pv %M52.W = 40 Tab_pm[M1518] == 167 goto(M_CORRF5) ____]>[___ —— (T)— %V5000.L[%M1518.W] == 0xa7 Tab_pm[M1518] == 170 M1518 += 4___]>[___ —— (T)— %V5000.L[%M1518.W] == 0xaa %M1518.W += 0x4 (1) Tab_pm[M1518] != 170 Alarm pgm tentativo di posizionare una ven ___]>[_____ ___() ___ %V5000.L[%M1518.W] != 0xaa %V4031.5 $Remove_pv = 99$ —— (T)— %M52.W = 0x63goto(END) —— (T)— (1) %V5000.L[%M1518.W] != 0xa7 : Tab pm[M1518] != 167 **76** Label: Step: Remove_pv %M52.W = 40 $Tab_pm[M1518] == 167$ goto(M_CORRF5) ____]>[___ —— (T)— %V5000.L[%M1518.W] == 0xa7 Tab pm[M1518] == 168 Index setup = M1518 Setup_pdl start ciclo di setup _____]>[____ — т — — (S)— %V5000.L[%M1518.W] == 0xa8 V402a.W = M1518.W%V4030.1 Ps_ledf4 Led tasto F4 — (R)— %V200c.5

Au	thor:		NUM	TOOLS	
Co	ompany:		NOM	тоопр	
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Remove_pv = 0 (T) %M52.W = 0x0 goto(END) (T) **77** Label:

Step: Remove_pv %M52.W = 40

Tab_pm[M1518] == 999	B_sb_vent = 0	Sb_vent_a	Blocco/sblocco ventose area A
	T	(R) %Q5201.2	
Tab_pm[M1518] == 164		Sb_vent_b	Blocco/sblocco ventose area B
%V5000.L[%M1518.W] == 0xa4		%Q5201.3	
		Sb_vent_c	Blocco/sblocco ventose area C
		%Q5201.4	
		Sb_vent_d	Blocco/sblocco ventose area D
		\(R) %Q5201.5	

78 Label: Step:

Tab_pm[M1518] == 164	Index_verify = M1518	Verify_pdl	start ciclo di verifica
%V5000.L[%M1518.W] == 0xa4	%V4036.W = %M1518.W	%V4030.5	
		Ps_ledf4 	Led tasto F4
		Remove_pv = 0 	
		goto(END)	

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79 Label: Step: Remove_pv %M52.W = 40

%V5000.L[%M1518.W] == 0x3e7 %V4030.3	
Step_park fine posizionamento ste	p PARCHEG
(R) %V4032.4	
Raz_icla Reset a fine posizionam	ento moto
\(\begin{array}{c} -(S) \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	
Emer_move = 0 Remove_pv = 0	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
(1) (2) (3) (4) Tab_pm[M1518] != 999 Alarm_pgm tentativo di posizionar	e una ven
]>[]>[]>[]>[]>[
Remove_pv = 99	
\(\tag{T} \) \(\tag{8M52.W} = 0x63 \)	

(1) %V5000.L[%M1518.W] != 0xa4 : Tab_pm[M1518] != 164 (2) %V5000.L[%M1518.W] != 0xa7 : Tab_pm[M1518] != 167 (3) %V5000.L[%M1518.W] != 0xa8 : Tab_pm[M1518] != 168 (4) %V5000.L[%M1518.W] != 0xaa : Tab_pm[M1518] != 170

80 Label: END Step:

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Step:

Reset memorie PDL

					Velocita = 9 %V4400.L = 0x3
Bit_all] [%V7a00.2					Bit_all_x ()_ %V525.6
Input_1_6	Input_7_12	Tent_pv == 0	V_sb_vent_a	T_in_corso	Sb_vent_a (S)
%V4033.1	%V4033.2	%M5d.W == 0x0	%V4040.0	%V4562.1	%Q5201.2
Fine_tent			V_sb_vent_b	T_in_corso	Sb_vent_b
%V4562.0			%V4040.1	%V4562.1	%Q5201.3
			V_sb_vent_c	T_in_corso	Sb_vent_c
			%V4040.2	%V4562.1	%Q5201.4
			V_sb_vent_d	T_in_corso	Sb_vent_d
			%V4040.3]/[(S) %05201.5

Presenza allarmi piano motorizz

Blocco/sblocco ventose area A

Blocco/sblocco ventose area B

Blocco/sblocco ventose area C

Blocco/sblocco ventose area D

01 Label: Step:

Ps_f2	App_setupa		Msg_psf2
%V202b.1	%V4034.0		%V4031.3
	App_setupb	App_setupc	
	%V4034.1	%V4034.2	
		App_setupd	
		%V4034.3	
Ps_f2			Psf2_xend
%V202b.1			%V4031.4
X_end	%V216.2		
%V503.0	R_T		
Sel_man_aut	%V216.3		
]/[%I4101.4	R_T		

Author:		NTTM	TOOLS	
Company:		NOM	тоопр	
Project: 1040_78.mch	TITRE		Date	28-02-2018
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Step:

Raz_icla		goto(END)
%V4031.2		(F)
Psf2_xend	Emer_gen	
%V4031.4	%I4000.6	
No_setup Rich_raz_pan	X_bltypea	
%V4030.2 %V21.0	\$V1151.3	
Alarm_pgm	X_bltypeb	
%V4031.5	\$V1151.4	
Msg_psf2	X_bltypec	
%V4031.3	\$V1151.5	
	X_bltyped	
	%V1151.6	

03 Label: RESET Step:

M1512 = 0	M1514 = 0	M1518 = 0	I_biterr = 0	I_maskerr = 0	N_tentativi = 0	M151c = 0
%M1512.W = 0x0	%M1514.W = 0x0	%M1518.W = 0x0	%M151a.W = 0x0	%M153c.W = 0x0	%M1508.W = 0x0	%M151c.W = 0x0
Remove_pv = 0	Setup_pv = 0	Verify_pv = 0	(1)	Test_pgm = 0	Jog_pv = 0	M151e = 0
%M52.W = 0x0	T = 0x0	*M56.W = 0x0	Т	T = 0x0	T = 0x0	(T)
Index_setup = 0	(2)	<pre>Index_plc = 0</pre>	Index_170 = 0	(3)	Tent_pv = 0	(4)
*V402a.W = 0x0	Т	T	*V402c.W = 0x0	Т	T = 0x0	(T)
Init_icla				$Raz_pv = 0$	Emer_move = 0	Movimento_pv
*V4033.7				T = 0x0	T = 0x0	%V4032.0
						Res_emer (R) %V4033.0
P1_8_no_ok = 0	P9_14_no_ok = 0					N_tentativi = 0
%V4560.B = 0x0	%V4561.B = 0x0					%M1508.W = 0x0

piani o ventose in movimento

(1) \$M50.W = 0x0 : Start_motori = 0 (2) \$V4036.W = 0x0 : Index_verify = 0

(3) V4038.W = 0x0 : Index_remove = 0 (4) V4038.W = 0x0 : Index_remove = 0

Author:
Company:

Project: 1040_78.mch
Module: RES_PV.XLA

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NUM TOOLS

Date 28-02-2018

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04 Label: Step: Init_icla reset memorie all'inizializzazio —(R)— %V4033.7 Remove_pdl Start ciclo di parcheggio e rimo -(R)-%V4031.6 Setup_pdl start ciclo di setup —(R)-%V4030.1 Verify_pdl start ciclo di verifica —(R)-%V4030.5 M170_ok lettura valore 170 — (R)-%V4030.3 Msg_185 Msg_psf2 _][-—(R)-%V3038.0 %V4031.3 05 Label: Step: Move_ok Predisposizione start motori -(R)-%V4030.0 %Q5500.4 — (R) – tentativo di posizionare una ven Alarm_pgm —(R)— %V4031.5 Step_setup fine posizionamento step SETUP —(R)-%V4030.4 fine posizionamento step VERIFIC Step_verify —(R)-%V4030.6 Step_park fine posizionamento step PARCHEG —(R)-%V4032.4

Author:		NUM	TOO	TC
Company:		NOM	100.	по
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: RES_PV.XLA		%SP210 (04)	Page	3

06 Label: Step: End_move movimentazione motori eseguita —(R)-%V4031.0 Start_move start movimentazione motori -(R)-%V4030.7 Input_1_6 input pistoncini ventose: piani —(R)-%V4033.1 Input_7_12 input pistoncini ventose: piani — (R) – %V4033.2 Input_ab_cd input pistoncini piani area AB, —(R)-%V4033.3 Remove bit MSG rimozione ventose —(R)-%V4033.4 07 Label: Step: App_setupa appoggio start setup area A —(R)-%V4034.0 App_setupb appoggio start setup area B —(R)-%V4034.1 appoggio start setup area C App_setupc —(R)— %V4034.2 appoggio start setup area D App_setupd —(R)-%V4034.3 Jog_icla Jog motori PDL —(R)-%V4032.1 No_setup bit setup non programmato —(R)-%V4030.2

Author:		NITIM	TOOLS	ı
Company:		NOM	тооць	
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: RES_PV.XLA		%SP210 (06)	Page	4

	Charle also a servicios al los	
	Check_ab verifica sbloc (R)	co avvenuto area
	%V4032.5	
	Check_cd verifica sbloc	co avvenuto area
	%V4032.6	
	Stjogpm_x Comando JOG [P	iano Mot.]
	Fine_tent	
	(R)————————————————————————————————————	
	T_in_corso	
	(R) %V4562.1	
	*V4J02.1	
	Agg_ok	
	55	
	(R)	
	(R) %V4562.3	
	(R)	
	(R)	
Label: Step:	(R)	
Label: Step:	(R)— %V4562.3	
Label: Step:	(R)	
Label: Step:	(R)— %V4562.3	
Label: Step:	Ps_ledf4 Led tasto F4 (R) *V4562.3 Led tasto F4 *V200c.5	
Label: Step:	Ps_ledf4 Led tasto F4	
Label: Step:	Ps_ledf4 Led tasto F4 (R) *V4562.3 Led tasto F4 *V200c.5	
Label: Step:	Ps_ledf4	

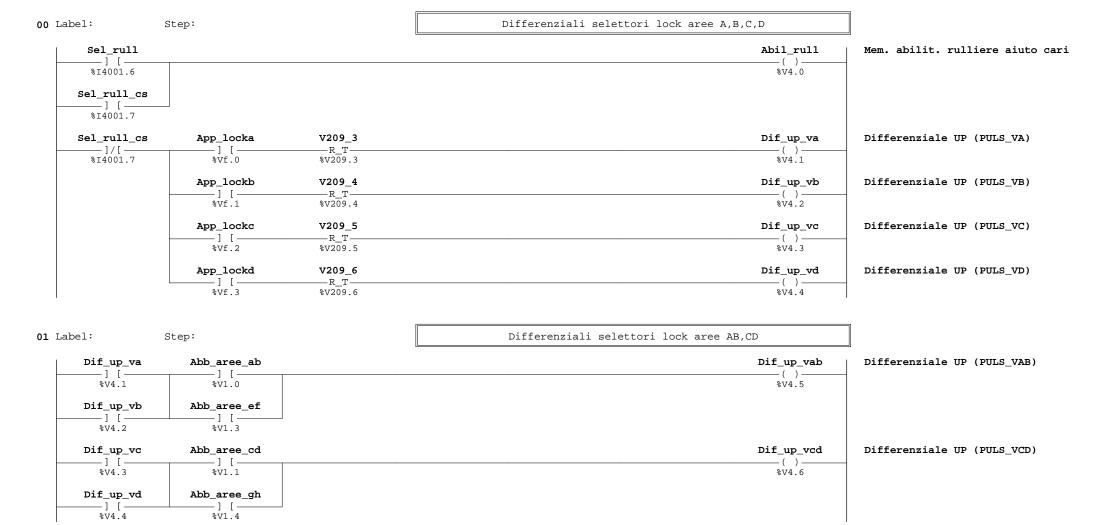
Author:		NUM	TOO	T C
Company:		NOM	100.	по
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: RES_PV.XLA		%SP210 (08)	Page	5

11 Label: END Step:

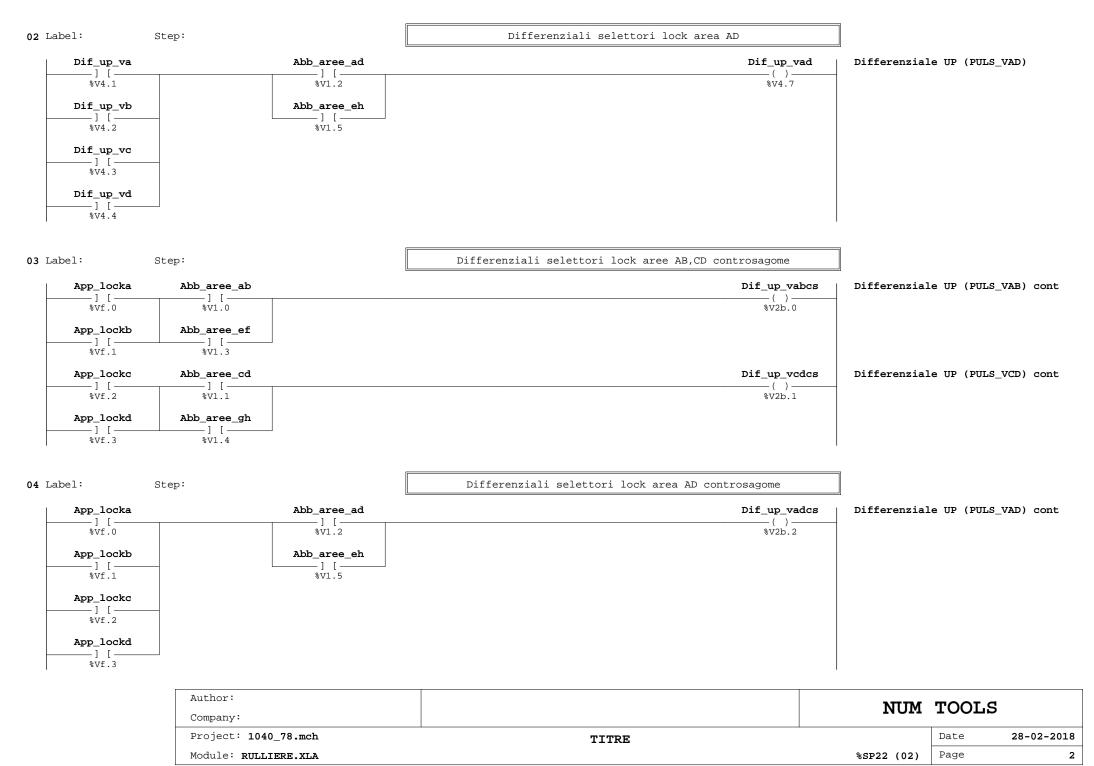
Author:		NITIM	TOOLS	2
Company:		NOM	TOOL	3
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: RES_PV.XLA		%SP210 (10)	Page	6

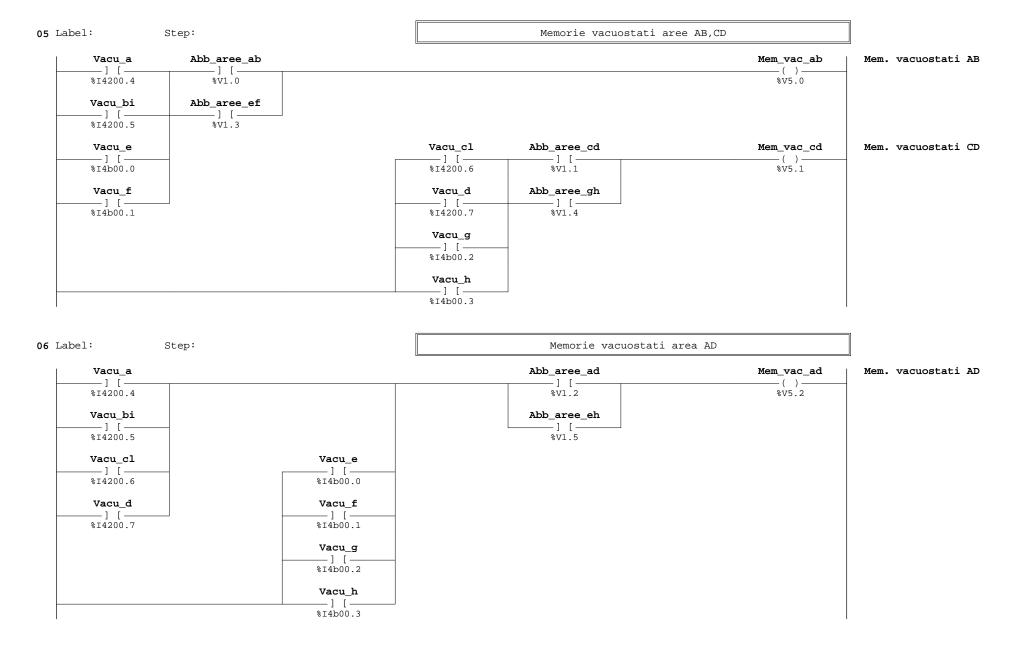
00 Label:	Step:	Ripristino inverter 1	
Ab_inv1_el 	Emer_invl 		Mem. ripristino inverter 1 step2 (S) M31.1
M_rip1_st4] [%M31.3			
M_rip1_st2 	Emer_inv1] [ip1_st4 Mem. ripristino inverter 1 step4 (S)————————————————————————————————————
			ip1_st2 Mem. ripristino inverter 1 step2 (R)————————————————————————————————————
M_rip1_st4 	Res_sel1		ip1_st2 Mem. ripristino inverter 1 step2 (R)————————————————————————————————————
			ip1_st4 Mem. ripristino inverter 1 step4 (R)————————————————————————————————————
01 Label:	Step:	Reset inverter	
M_rip1_st2] [M30_1] [%M30.1		Reset inverter generico () 4000.6

Author:		NITIM	TOOI	Q
Company:		NOM	1001	10
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: RIAGGANC.XLA		%SP49 (00)	Page	1

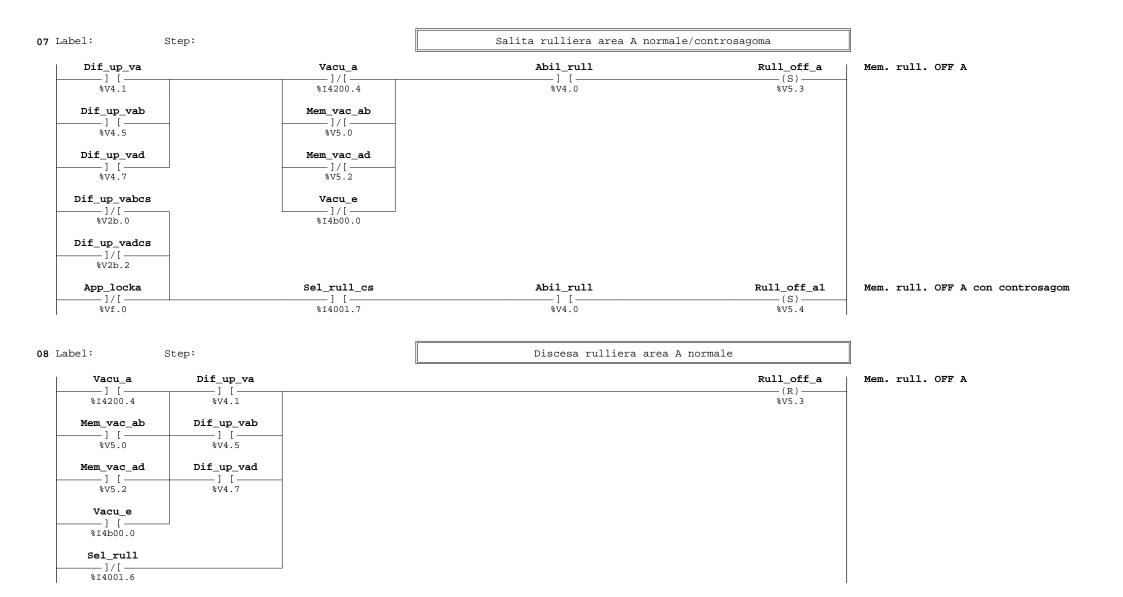


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Company:		HOH	тоопр	
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: RULLIERE.XLA		%SP22 (00)	Page	1

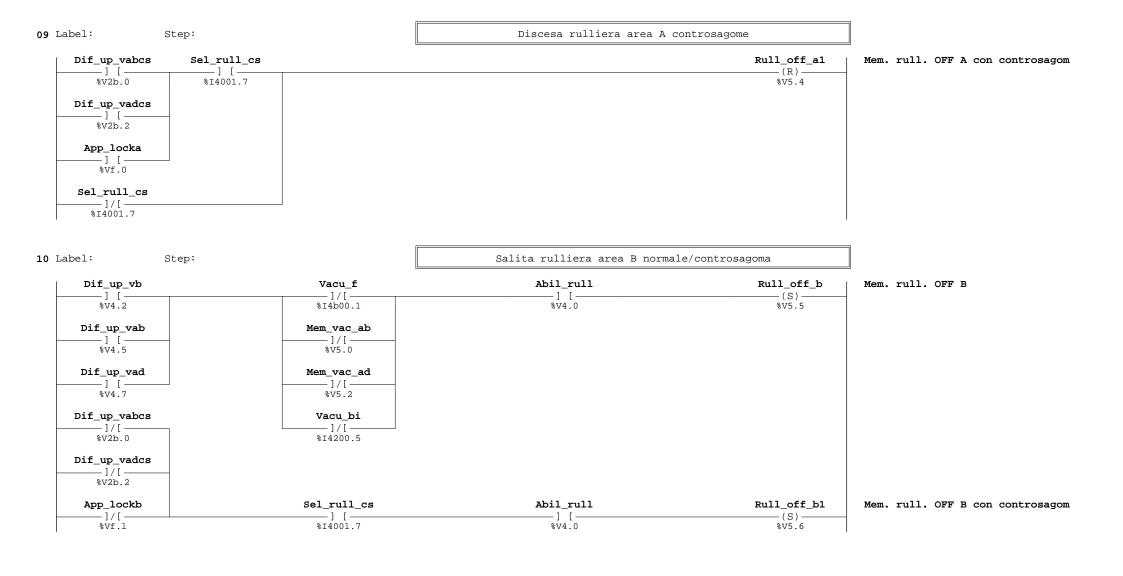




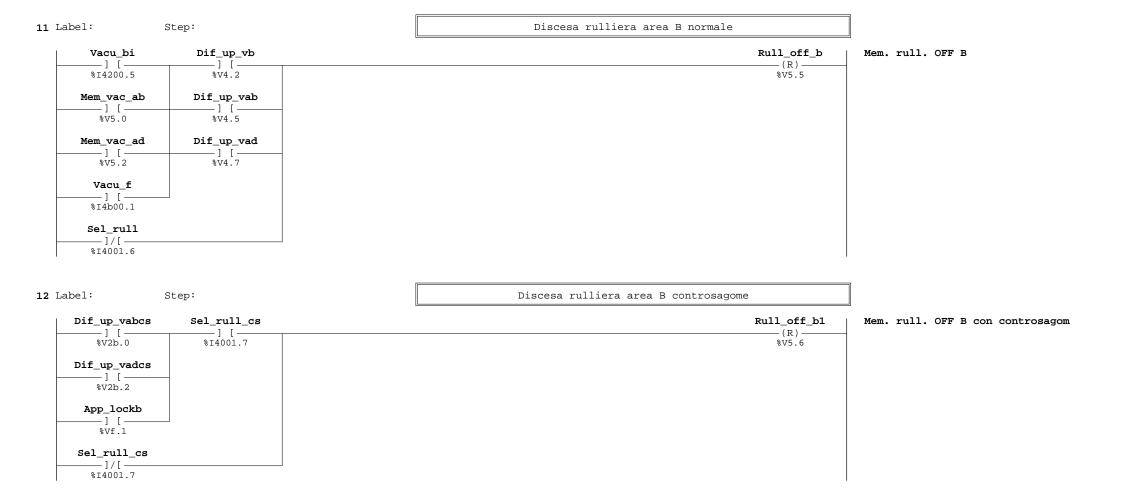
Author:		NUM	TOO	LS
Company:				
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: RULLIERE.XLA		%SP22 (05)	Page	3



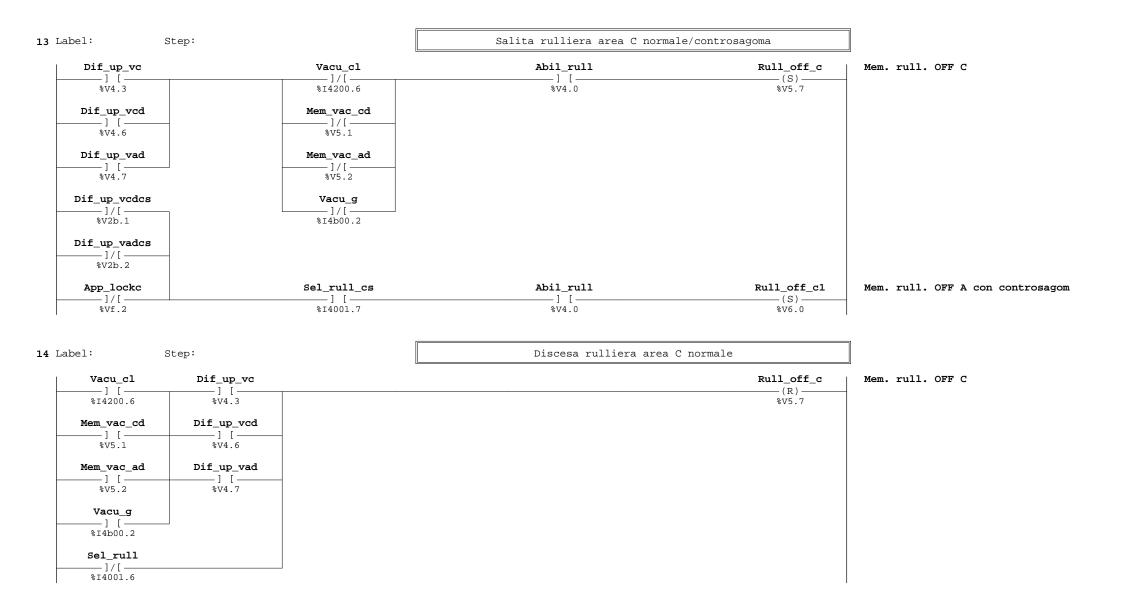
Author:		NUM	TOOL	C
Company:		NOM	1001	5
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: RULLIERE.XLA		%SP22 (07)	Page	4



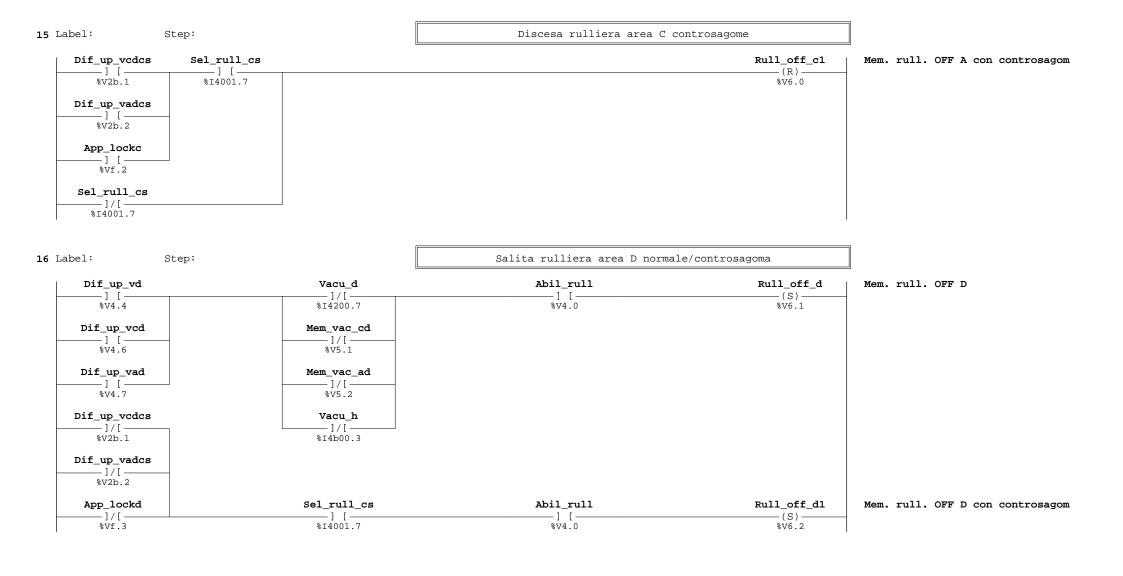
Author:		NUM	TOOI	· c
Company:		INOM	1001	D OL
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: RULLIERE.XLA		%SP22 (09)	Page	5



Author:			NUM	TOOLS	
Company	:		NOM	10015	
Project	: 1040_78.mch	TITRE		Date	28-02-2018
Module:	RULLIERE.XLA		%SP22 (11)	Page	6



Author:		NUM	TOOI	T. C
Company:		NOM	1001	10
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: RULLIERE.XLA		%SP22 (13)	Page	7



Author:		NUM	TOOI	- C
Company:		NOM	1001	10
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: RULLIERE.XLA		%SP22 (15)	Page	8



Author:		NIIM	TOOLS	3
Company:		14011	10011	
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: RULLIERE.XLA		%SP22 (17)	Page	9

19 Label:	Step:	Rulliere aiuto carico

1	Abil_rull	Sel_list_ab			(1) Rull_a	Abilitazione rulliera aiuto cari
	*V4.0	%I5600.0			/[()	
					(2) Rull_bi	Abilitazione rulliera aiuto cari
					%Q4201.3	
		Sel_list_cd			(3) Rull_cl	Abilitazione rulliera aiuto cari
		%I5600.1			%Q4201.4	
					(4) Rull_d	Abilitazione rulliera aiuto cari
					%Q4201.5	
`		, %I4200.4, %I4b00	· ·		ull_off_a, Rull_off_al, Vacu_a, Vacu_e, Mem_vac_ab, Mem_vac_ad	
(2) %V5.5, %V5.6	, %I4200.5, %I4b00	.1, %V5.0, %V5.2	•	ull_off_b, Rull_off_b1, Vacu_bi, Vacu_f, Mem_vac_ab, Mem_vac_ad	

Author:		NUM	TOOL	S
Company:				
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: RULLIERE.XLA		%SP22 (19)	Page	10

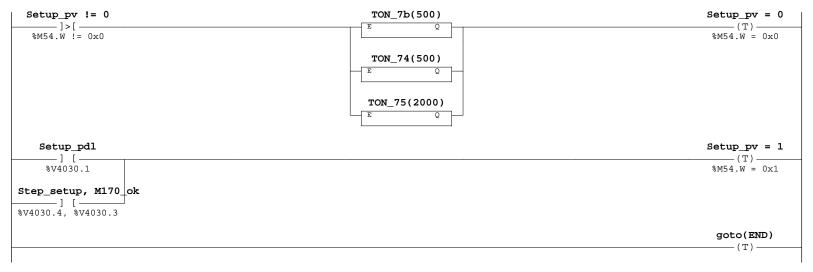
Rull_off_c, Rull_off_c1, Vacu_c1, Vacu_g, Mem_vac_cd, Mem_vac_ad

Rull_off_d, Rull_off_d1, Vacu_d, Vacu_h, Mem_vac_cd, Mem_vac_ad

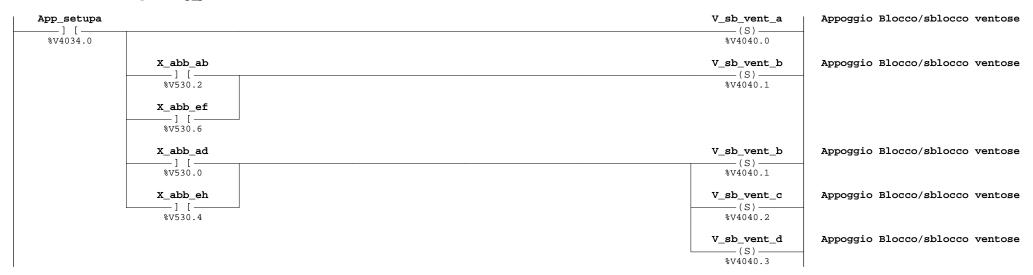
(3) %V5.7, %V6.0, %I4200.6, %I4b00.2, %V5.1, %V5.2

(4) %V6.1, %V6.2, %I4200.7, %I4b00.3, %V5.1, %V5.2

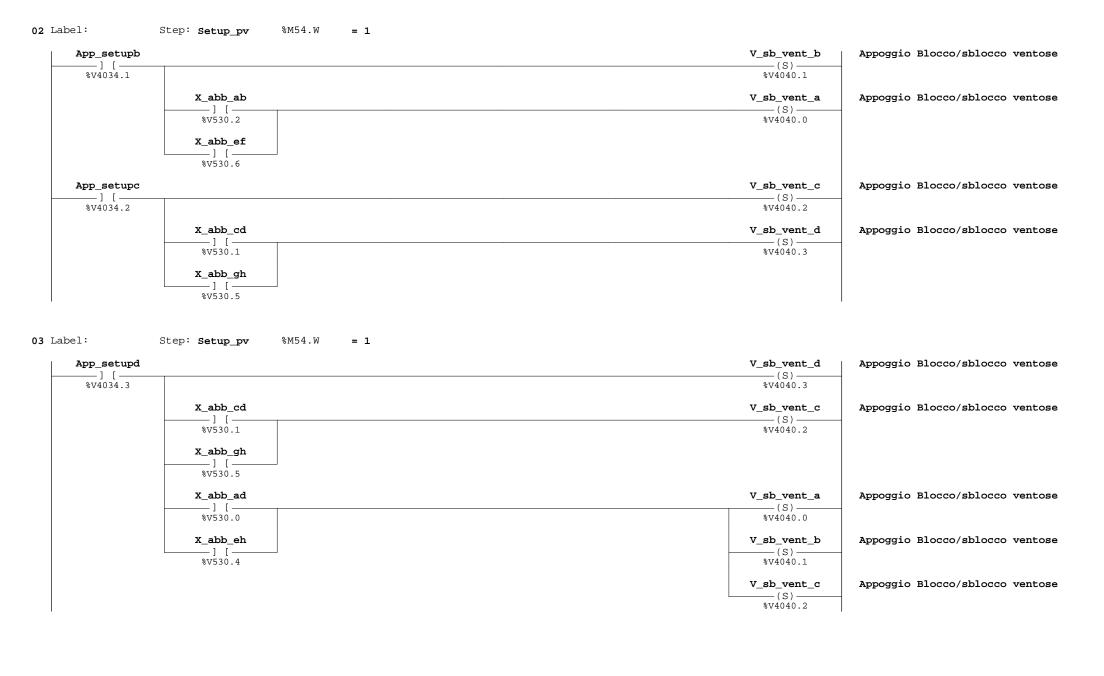
00 Label: Step: Setup_pv %M54.W = 0



01 Label: Step: Setup_pv %M54.W = 1



Author:		NUM	TOOLS	đ
Company:		NOM	TOOL	5
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: SETUP_PV.XLA		%SP219 (00)	Page	1



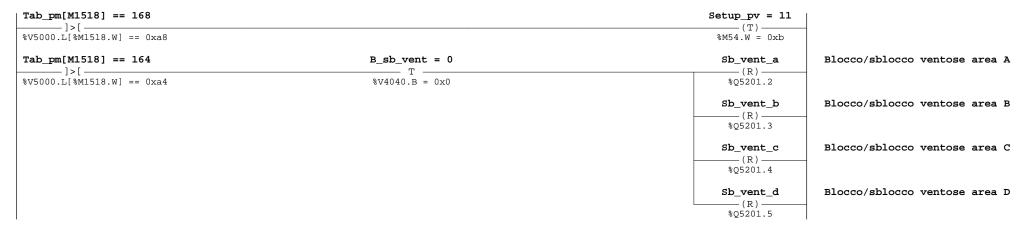
Author:		NUM TOOLS		
Company:				
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: SETUP_PV.XLA		%SP219 (02)	Page	2

04 Label: %M54.W = 1 Step: Setup_pv Setup_pdl start ciclo di setup ---(R)---%V4030.1 (1) Step_setup, M170_ok —(F)— %V4030.4, %V4030.3 $M1518 = Index_170$ —— (T)— %M1518.W = %V402c.W (2) —(T)-M170_ok lettura valore 170 — (R)-%V4030.3 Step_setup fine posizionamento step SETUP — (R)-%V4030.4 (1) %M1518.W = %V402a.W M1518 = Index_setup $Index_plc = M1518$ (2) %V402e.W = %M1518.W 05 Label: %M54.W = 1 Step: Setup_pv

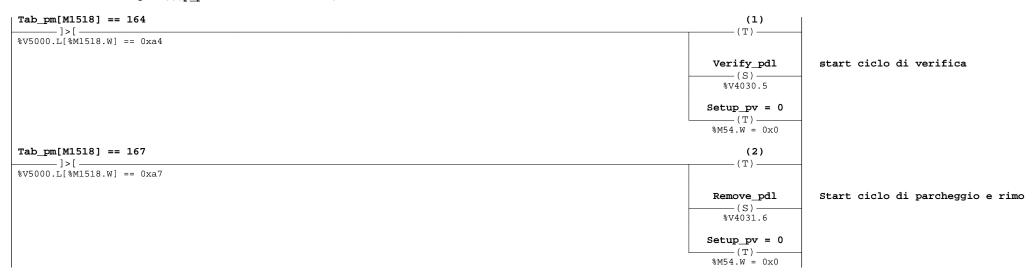
Author: Company:		NUM	TOOLS	
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: SETUP_PV.XLA		%SP219 (04)	Page	3

goto(END)

06 Label: Step: Setup_pv %M54.W = 10



07 Label: Step: **Setup_pv** %M54.W = **10**



(1) %V4036.W = %M1518.W : Index_verify = M1518 (2) %V4038.W = %M1518.W : Index_remove = M1518

Author:		NUM TOOLS		
Company:		NOM	тооп	5
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: SETUP_PV.XLA		%SP219 (06)	Page	4

```
Tab_pm[M1518] == 999
                                         B_sb_vent = 0
                                                                                                                   Sb_vent_a
                                                                                                                                   Blocco/sblocco ventose area A
         — l>[ —
                                             — т —
                                                                                                                     — (R)—
    %V5000.L[%M1518.W] == 0x3e7
                                                                                                                    %Q5201.2
                                         V4040.B = 0x0
                                                                                                                   Sb vent b
                                                                                                                                   Blocco/sblocco ventose area B
                                                                                                                     — (R)-
                                                                                                                    %Q5201.3
                                                                                                                                   Blocco/sblocco ventose area C
                                                                                                                   Sb vent c
                                                                                                                    — (R)—
                                                                                                                    %05201.4
                                                                                                                   Sb vent d
                                                                                                                                   Blocco/sblocco ventose area D
                                                                                                                    — (R)-
                                                                                                                    %05201.5
09 Label:
                    Step: Setup pv
                                       %M54.W
                                                  = 10
    Tab_pm[M1518] == 999
                                                                                                                   Raz_icla
                                                                                                                                   Reset a fine posizionamento moto
          _ ] > [ _
                                                                                                                     —(S)—
    %V5000.L[%M1518.W] == 0x3e7
                                                                                                                    %V4031.2
                                                                                               Emer move = 0
                                                                                                                  Setup_pv = 0
                                                                                                  — т —
                                                                                                                    — (T) —
                                                                                                M46.W = 0x0
                                                                                                                  %M54.W = 0x0
            (1)
                              (2)
                                                (3)
                                                          Tab pm[M1518] != 999
                                                                                                                   Alarm pgm
                                                                                                                                   tentativo di posizionare una ven
                                                          _____]>[___
                                                                                                                    — ( ) —
                                                  %V5000.L[%M1518.W] != 0x3e7
                                                                                                                    %V4031.5
                                                                                                                 Setup_pv = 99
                                                                                                                    — (T)—
                                                                                                                  M54.W = 0x63
                                                                                                                   goto(END)
                                                                                                                    — (T) –
   (1) %V5000.L[%M1518.W] != 0xa4
                                           Tab_pm[M1518] != 164
   (2) %V5000.L[%M1518.W] != 0xa7
                                           Tab pm[M1518] != 167
   (3) %V5000.L[%M1518.W] != 0xa8
                                            Tab_pm[M1518] != 168
10 Label: O RIT
                    Step: Setup pv
                                       %M54.W
                                                  = 11
                                                                                   Indice ventosa o piano
    M1518 = M1518 + 4
                                                                                                                        (1)
        — т —
    M1518.W = M1518.W + 0x4
   (1) %M1514.W = %V5000.L[%M1518.W] : M1514 = Tab_pm[M1518]
                         Author:
```

%M54.W = 10

Step: Setup pv

Author:		NTTM	TOOL	q
Company:		NOM	TOOL	5
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: SETUP_PV.XLA		%SP219 (08)	Page	5
Copyright by				

```
11 Label:
                                     %M54.W = 11
                                                                                  Indice Motore
                Step: Setup_pv
   M1518 = M1518 + 4
                                                                                                                (1)
        — т —
   M1518.W = M1518.W + 0x4
   (1) M1512.W = (V5000.L[M1518.W] - 0x1) * 0x10 : M1512 = (Tab_pm[M1518] - 1) * 16
12 Label:
                  Step: Setup pv
                                     %M54.W = 11
                                                                              Indice Quota comandata
                                                                                                                (1)
                                                                                                               (T) -
   (1) %M1518.W = %M1518.W + 0x4 : M1518 = M1518 + 4
13 Label:
                Step: Setup_pv
                                     %M54.W
                                               = 11
                                                                           index_1 = no piano o ventosa
     Index_1 = 10
                      Index_2 = 0
                                                                                                           Index_8 = 0
                       — т —
                                                                                                             — (T)—
     M1100.W = 0xa
                      M1102.W = 0x0
                                                                                                          M110e.W = 0x0
14 Label: FASE11 Step: Setup_pv
                                     %M54.W = 11
                                                                      Predisposizione start Syncro (ritorno)
   M1514 == Index 1
                                     Tab_pm[M1518] != Piano_10[Index_8]
                                                                                                                (1)
        __]>[_
                                          ___]>[__
                                                                                                              -(S)-
    %M1514.W == %M1100.W
                                     %V5000.L[%M1518.W] != %M2010.L[%M110e.W]
                                                                                                                           Predisposizione start motori
                                                                                                            Move_ok
                                                                                                             — (S)—
                                                                                                            %V4030.0
                                                                                                          goto(FASE11A)
                                                                                                           —— (T)—
                                                                                                          Index_1 += 1
                                                                                                            — (T)—
                                                                                                          %M1100.W += 0x1
                                                                                                          Index_2 += 1
                                                                                                             — (T)—
                                                                                                          M1102.W += 0x1
                                                                                                          Index_8 += 4
                                                                                                            — (T) —
                                                                                                          M110e.W += 0x4
   (1) %V7010.3[%M1512.W] : P_syncro_1[M1512]
```

Author:

```
Index_1 > 126
                                                                                                              Alarm_pgm
                                                                                                                             tentativo di posizionare una ven
        ___]>[___
                                                                                                               — ( ) —
     M1100.W > 0x7e
                                                                                                              %V4031.5
                                                                                                            Setup_pv = 99
                                                                                                              — (T)—
                                                                                                            M54.W = 0x63
      Index 2 < 7
                                                                                                            goto(FASE11)
       ____]>[___
                                                                                                             —— (T)—
     %M1102.W < 0x7
     Index_2 == 7
                                                                          Index_2 = 0
                                                                                           Index_1 += 3
      ____1>[ ____
                                                                            — т —
                                                                                            — т —
     %M1102.W == 0x7
                                                                          M1102.W = 0x0
                                                                                          %M1100.W += 0x3
16 Label: FASE11A Step: Setup pv
                                    %M54.W
                                                = 11
                                                                            Assegnazione Quota comandata
                     Index_2 = 0
     Index_1 = 10
                                                                                                             Index_8 = 0
        — т —
                       — т —
                                                                                                              —— (T) —
     M1100.W = 0xa
                     M1102.W = 0x0
                                                                                                            M110e.W = 0x0
17 Label: FASE11B Step: Setup_pv
                                    %M54.W = 11
    M1514 == Index_1
                                                                                                                  (1)
        — ] > [ —
                                                                                                                -(T)—
    %M1514.W == %M1100.W
                                                                                                            goto(FASE11C)
                                                                                                             —— (T)—
                                                                                                            Index_1 += 1
                                                                                                             —— (Т) —
                                                                                                            %M1100.W += 0x1
                                                                                                            Index_2 += 1
                                                                                                              —— (T)—
                                                                                                            %M1102.W += 0x1
                                                                                                            Index 8 += 4
                                                                                                               — (T) —
                                                                                                            M110e.W += 0x4
   (1) %V7012.L[%M1512.W] = %M2010.L[%M110e.W] : Q_prog_1[M1512] = Piano_10[Index_8]
```

Author:		NUM TOOLS		
Company:		NOM	1001	JD OL
Project: 1040_78.mch	TITRE		Date	28-02-2018
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Step: Setup pv

%M54.W = **11**

```
18 Label: Step: Setup_pv
                                %M54.W = 11
     Index_1 > 126
                                                                                                    Alarm_pgm
                                                                                                                  tentativo di posizionare una ven
      ____]>[____
                                                                                                    — ( ) —
     M1100.W > 0x7e
                                                                                                    %V4031.5
                                                                                                  Setup_pv = 99
                                                                                                   —— (Т) —
                                                                                                   M54.W = 0x63
     Index_2 < 7
                                                                                                  goto(FASE11B)
      ____]>[___
                                                                                                   —— (Т)—
     %M1102.W < 0x7
     Index_2 == 7
                                                                    Index_2 = 0
                                                                                   Index_1 += 3
     ____]>[___
                                                                    — т —
                                                                                   — т —
     %M1102.W == 0x7
                                                                   M1102.W = 0x0 M1100.W += 0x3
                                M54.W = 11
                                                                        Indice velocità
19 Label: FASE11C Step: Setup pv
                                                                                                        (1)
   (1) M1518.W = M1518.W + 0x4 : M1518 = M1518 + 4
20 Label:
                                M54.W = 11
                                                                        Assegnazione Velocità
            Step: Setup pv
                                                                                                        (1)
                                                                                                      -(T)—
   (1) %V7016.W[%M1512.W] = %V4400.L : Feed_1[M1512] = Velocita
21 Label:
                 Step: Setup_pv
                                M54.W = 11
                                                                                                        (1)
   (1) M1518.W = M1518.W + 0x4 : M1518 = M1518 + 4
```

Author:		NUM TOOLS		
Company:		INOM	TOOL	io
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: SETUP_PV.XLA		%SP219 (18)	Page	8

abel: Step: Setup_pv %M54.W = 11	Verifica indice		
Tab_pm[M1518] == 168		goto(Q_RIT)	
\[\frac{1}{8\text{V5000.L[\%M1518.W]}} == 0\text{xa8}		(1)	
Tab_pm[M1518] == 170	Index_170 = M1518 + 4	M170_ok	lettura valore 170
\[\s\\\]\ \[\\$\\\]\ == \(\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	%V402c.W = %M1518.W + 0x4	%V4030.3	
		Setup_pv = 12	
		%M54.W = 0xc	
(1) Tab_pm[M1518] != 170		Alarm_pgm	tentativo di posizionare una ven
]>[]>[]>[]>[%V4031.5	
		Setup_pv = 99	
		%M54.W = 0x63	
		goto(END) (T)	
1) %V5000.L[%M1518.W] != 0xa8 : Tab_pm[M1518] != 1 abel: Step: Setup_pv %M54.W = 12	168 Reset dispositivo di agganc	io	
		io Cil_std = 0	
		Cil_std = 0	Abil. cilindro aggancio area AB
		Cil_std = 0 (T) %Q5200.B = 0x0	Abil. cilindro aggancio area AB
		Cil_std = 0 (T) %Q5200.B = 0x0 Cil_pdl_ab (R) %Q5201.0 Cil_pdl_cd	Abil. cilindro aggancio area AB Abil. cilindro aggancio area CD
		Cil_std = 0 (T) %Q5200.B = 0x0 Cil_pdl_ab (R) %Q5201.0	
		Cil_std = 0 (T) %Q5200.B = 0x0 Cil_pdl_ab (R) %Q5201.0 Cil_pdl_cd (R)	

Author:		NUM	TOOL	Q
Company:		NOM	TOOL	15
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Module: SETUP_PV.XLA		%SP219 (22)	Page	9

24 Label: %M54.W Start asse n.... se predisposto e posiz. pistone a quota corr. Step: Setup pv = 12 (1) Pdl_ab Pdl_cd Vent_pdl_add == 0 Start_move start movimentazione motori _]>[_ —(S)-%I5201.0 %I5201.1 %I5400.B == 0x0 %V4030.7 Setup_pv = 13 — (T) — M54.W = 0xdgoto(END) —— (T)— (1) %15200.B == 0x0 : Vent_pdl_std == 0 **25** Label: Step: Setup_pv %M54.W = 13 End_move End_move movimentazione motori eseguita —(R)— %V4031.0 %V4031.0 Sb_pdl_ab sblocco pdl area AB —(R)-%05201.6 Sb_pdl_cd sblocco pdl area CD — (R)-%Q5201.7 Setup_pv = 20 — (T)— M54.W = 0x14goto(END) — (T)-**26** Label: Step: Setup_pv %M54.W = 20 Setup_pv = 21 — (T) – M54.W = 0x15goto(END) — (T)-

Company:		NUM TOOLS		
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: SETUP_PV.XLA		%SP219 (24)	Page	10

Author:

```
27 Label:
                                      %M54.W
                                                                                Indice di Spiazzamento
                   Step: Setup_pv
                                                 = 21
                                                                                                                   (1)
                                                                                                                  -(T)-
                                                                                            Index 10 = 0
                                                                                                             Setup_pv = 22
                                                                                                — т —
                                                                                                                — (T)—
                                                                                            M1112.W = 0x0
                                                                                                              M54.W = 0x16
                                                                                                               goto(END)
                                                                                                               — (T) —
   (1) %M1518.W = %V402e.W : M1518 = Index_plc
28 Label:
                   Step: Setup_pv
                                      %M54.W = 22
   Tab_pm[M1518] == 168
                                                                                                             Setup_pv = 23
         __ 1>[ __
                                                                                                                 —(T)—
    %V5000.L[%M1518.W] == 0xa8
                                                                                                              M54.W = 0x17
    Tab_pm[M1518] != 168
                                                                                                               Alarm pgm
                                                                                                                               tentativo di posizionare una ven
    %V5000.L[%M1518.W] != 0xa8
                                                                                                                %V4031.5
                                                                                                             Setup_pv = 99
                                                                                                                — (T)—
                                                                                                              M54.W = 0x63
                                                                                                               qoto(END)
                                                                                                               —— (T)—
29 Label: Q_SETUP Step: Setup_pv
                                      %M54.W
                                                 = 23
                                                                                Indice ventosa o piano
   M1518 = M1518 + 4
                                                                                                                   (1)
                                                                                                                  (T)-
   M1518.W = M1518.W + 0x4
   (1) %M1514.W = %V5000.L[%M1518.W] : M1514 = Tab_pm[M1518]
30 Label:
                                      %M54.W
                                                                           Appoggio su V4000 piano e ventose
                   Step: Setup_pv
                                                 = 23
                                                                                                                   (1)
                                                                                                                 -(T)-
                                                                                                             Index_10 += 1
                                                                                                                 — (T) —
                                                                                                             %M1112.W += 0x1
   (1) %V4000.B[%M1112.W] = %M1514.W : V4000[Index_10] = M1514
                         Author:
                                                                                                                                   NUM TOOLS
                         Company:
                         Project: 1040_78.mch
                                                                                                                                            Date
                                                                                                                                                       28-02-2018
                                                                                      TITRE
```

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%SP219 (27)

11

Module: SETUP_PV.XLA

```
31 Label:
                Step: Setup_pv
                                  %M54.W = 23
                                                                                Indice Motore
   | M1518 = M1518 + 4
                                                                                                             (1)
       — т —
   M1518.W = M1518.W + 0x4
   (1) M1512.W = (V5000.L[M1518.W] - 0x1) * 0x10 : M1512 = (Tab_pm[M1518] - 1) * 16
32 Label:
                Step: Setup pv
                                    %M54.W
                                             = 23
                                                                            Indice Quota comandata
                                                                                                             (1)
                                                                                                            ·(T)-
   (1) %M1518.W = %M1518.W + 0x4 : M1518 = M1518 + 4
33 Label:
                Step: Setup_pv
                                  %M54.W = 23
                                                                                                        Index_8 = 0
     Index_1 = 10
                      Index_2 = 0
                                      Index_3 = 0
       — т —
                       — т —
                                      — т —
                                                                                                          — (T)—
     M1100.W = 0xa
                     M1102.W = 0x0
                                      M1104.W = 0x0
                                                                                                       M110e.W = 0x0
34 Label: FASE23 Step: Setup pv
                                    %M54.W = 23
   M1514 == Index_1
                                    Tab_pm[M1518] != Piano_10[Index_8]
                                                                                                             (1)
        __]>[_
                                                                                                           -(S)—
   %M1514.W == %M1100.W
                                    %V5000.L[%M1518.W] != %M2010.L[%M110e.W]
                                                                                                   Sincro_10_[Index_3]
                                                                                                       ——(S)—
                                                                                                     %V4500.3[%M1104.W]
                                                                                                         Move ok
                                                                                                                        Predisposizione start motori
                                                                                                          — (S) –
                                                                                                         %V4030.0
                                                                                                       goto(FASE23A)
                                                                                                       ——(T)—
   (1) %V7010.3[%M1512.W] : P_syncro_1[M1512]
```

Author:		NUM TOOLS		
Company:		NOM	1001	10
Project: 1040_78.mch	TITRE		Date	28-02-2018
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```
35 Label:
                                     %M54.W = 23
                   Step: Setup_pv
                                                                                                                Index_1 += 1
                                                                                                                   — (T)—
                                                                                                                %M1100.W += 0x1
                                                                                                                Index_3 += 1
                                                                                                                   — (T)—
                                                                                                                %M1104.W += 0x1
                                                                                                                Index_2 += 1
                                                                                                                   — (T)—
                                                                                                                %M1102.W += 0x1
                                                                                                                Index_8 += 4
                                                                                                                   — (T)—
                                                                                                                %M110e.W += 0x4
36 Label:
                   Step: Setup_pv
                                       %M54.W = 23
     Index_1 > 126
                                                                                                                 Alarm_pgm
                                                                                                                                  tentativo di posizionare una ven
       ____]>[ ___
                                                                                                                   — ( ) –
     %M1100.W > 0x7e
                                                                                                                  %V4031.5
                                                                                                                Setup_pv = 99
                                                                                                                   — (T)—
                                                                                                                %M54.W = 0x63
      Index 2 < 7
                                                                                                                goto(FASE23)
       ____1>[ ____
                                                                                                                   — (Т) —
     %M1102.W < 0x7
     Index_2 == 7
                                                                             Index_2 = 0
                                                                                              Index_1 += 3
        ___]>[___
                                                                                               — т —
     %M1102.W == 0x7
                                                                            M1102.W = 0x0
                                                                                              %M1100.W += 0x3
37 Label: FASE23A Step: Setup pv
                                       %M54.W = 23
     Index_1 = 10
                        Index_2 = 0
                                         Index_3 = 0
                                                                                                                Index_8 = 0
                                            — т —
        — т —
                          — т —
                                                                                                                   — (T) —
     %M1100.W = 0xa
                       M1102.W = 0x0
                                         M1104.W = 0x0
                                                                                                                %M110e.W = 0x0
```

Author:		NUM TOOLS		
Company:		NOM	100	по
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```
38 Label: FASE23B Step: Setup_pv
                                    %M54.W = 23
           (1)
                     Tab_pm[M1518] < Piano_10[Index_8]</pre>
                                                                                                                    (2)
                       ____]>[___
                                                                                                                  -(T)-
            %V5000.L[%M1518.W] < %M2010.L[%M110e.W]
            Tab_pm[M1518] > Piano_10[Index_8]
                                                                                                                    (3)
                         __]>[__
                                                                                                                  -(T)-
            %V5000.L[%M1518.W] > %M2010.L[%M110e.W]
                                                                                                         Recup_10_[Index_3]
                                                                                                              ——(S)—
                                                                                                            %V4500.4[%M1104.W]
                                                                                                              goto(SALTO)
                                                                                                               —— (T)—
   (1) M1514.W == M1100.W : M1514 == Index_1
   (2) %V7012.L[%M1512.W] = %V5000.L[%M1518.W] - %V1290.B[%M1104.W] : O_prog_1[M1512] = Tab_pm[M1518] - Tab_asola[Index_3]
   (3) %V7012.L[%M1512.W] = %V5000.L[%M1518.W] + %V1290.B[%M1104.W] : O prog_1[M1512] = Tab_pm[M1518] + Tab_asola[Index_3]
39 Label:
                   Step: Setup pv
                                   %M54.W = 23
                                                                                                             Index_1 += 1
                                                                                                                 — (T) —
                                                                                                             %M1100.W += 0x1
                                                                                                             Index 2 += 1
                                                                                                                — (T)—
                                                                                                             %M1102.W += 0x1
                                                                                                             Index_3 += 1
                                                                                                                — (T)—
                                                                                                             %M1104.W += 0x1
                                                                                                             Index_8 += 4
                                                                                                               —— (Т) —
```

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Company:		MOM	тоопа	•
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M110e.W += 0x4

```
40 Label: Step: Setup_pv
                                %M54.W = 23
    Index_1 > 126
                                                                                                    Alarm_pgm
                                                                                                                  tentativo di posizionare una ven
      ____]>[___
                                                                                                     — ( ) —
    %M1100.W > 0x7e
                                                                                                     %V4031.5
                                                                                                  Setup_pv = 99
                                                                                                    —— (T) —
                                                                                                   M54.W = 0x63
     Index 2 < 7
                                                                                                  goto(FASE23B)
     ____]>[___
                                                                                                   —— (Т) —
     %M1102.W < 0x7
     Index_2 == 7
                                                                    Index_2 = 0
                                                                                   Index_1 += 3
     ____]>[ ____
                                                                     — т —
                                                                                   — т —
    M1102.W == 0x7
                                                                   M1102.W = 0x0 M1100.W += 0x3
                                %M54.W = 23
                                                                        Indice velocità
41 Label: SALTO
               Step: Setup_pv
                                                                                                        (1)
   (1) M1518.W = M1518.W + 0x4 : M1518 = M1518 + 4
42 Label:
                                %M54.W = 23
                                                                         Assegnazione Velocità
           Step: Setup pv
                                                                                                        (1)
  (1) %V7016.W[%M1512.W] = %V4400.L : Feed_1[M1512] = Velocita
43 Label:
                 Step: Setup_pv
                                %M54.W = 23
                                                                           incremento indice
                                                                                                        (1)
   (1) M1518.W = M1518.W + 0x4 : M1518 = M1518 + 4
```

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Company:		INOM	1001	GL
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44 Label: %M54.W Verifica indice Step: Setup pv = 23 Tab_pm[M1518] == 168 goto(Q_SETUP) ___]>[___ — (T)— %V5000.L[%M1518.W] == 0xa8 $Tab_pm[M1518] == 170$ $V4000[Index_10] = 127$ $Setup_pv = 24$ — т — — (T)— __]>[___ %V5000.L[%M1518.W] == 0xaa V4000.B[M1112.W] = 0x7fM54.W = 0x18Tab_pm[M1518] != 170 Alarm pgm tentativo di posizionare una ven (1) ____]>[___ __()__ —] > [— %V5000.L[%M1518.W] != 0xaa %V4031.5 Setup_pv = 99 —— (T)— M54.W = 0x63goto(END) — (T) — (1) %V5000.L[%M1518.W] != 0xa8 : Tab_pm[M1518] != 168 **45** Label: %M54.W = **24** Step: Setup pv P_syncro_1 Pistab_no_ok Cil_pdl_ab Abil. cilindro aggancio area AB —] / [— —][— — (S)-%V7010.3 %V4561.4 %Q5201.0 Cil pdl ab Pistab no ok Abil. cilindro aggancio area AB ___1 [_ — (R)— %V4561.4 %Q5201.0 Pistcd no ok Cil pdl cd Abil. cilindro aggancio area CD P syncro 2 __1 [_ — 1/[— — (S) – %V7020.3 %V4561.5 %Q5201.1 Pistcd_no_ok Cil_pdl_cd Abil. cilindro aggancio area CD

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— (R)-

%Q5201.1

—] [—

%V4561.5

P_syncro_3	Pist1_no_ok	Cil_pdl_1 Abil. cilindro aggan
%V7030.3]/[%V4560.0	(S)— %Q5200.0
	Pist1_no_ok	Cil_pdl_1 Abil. cilindro aggan
	*V4560.0	%Q5200.0
P_syncro_4	Pist2_no_ok 	Cil_pdl_2 Abil. cilindro aggan
%V7040.3	%V4560.1	%Q5200.1
	Pist2_no_ok] [Cil_pdl_2 Abil. cilindro aggan
	%V4560.1	%Q5200.1
P_syncro_5	Pist3_no_ok	Cil_pdl_3 Abil. cilindro aggan
%V7050.3	%V4560.2	%Q5200.2
	Pist3_no_ok	Cil_pdl_3 Abil. cilindro aggan
	%V4560.2	%Q5200.2
el: Step: Se	cup_pv %M54.W = 24	
P_syncro_6	Pist4_no_ok	Cil_pdl_4 Abil. cilindro aggan
%V7060.3	%V4560.3	%Q5200.3
	Pist4_no_ok	Cil_pdl_4 Abil. cilindro aggan
	%V4560.3	%Q5200.3
P_syncro_7	Pist5_no_ok]/[Cil_pdl_5 Abil. cilindro aggan
1 [(5)

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Cil_pdl_6

(S)— %Q5200.5

Cil_pdl_6

(R)— %Q5200.5 Abil. cilindro aggancio ventose

Abil. cilindro aggancio ventose

Pist6_no_ok

___]/[___ %V4560.5

Pist6_no_ok ____] [____ %V4560.5

P_syncro_8

~~] [~~ %V7080.3

48 Label: Step: Set	up_pv %M54.W = 24		
P_syncro_9][Pist7_no_ok 	Cil_pdl_7 	Abil. cilindro aggancio ventose
***/1030.3	Pist7_no_ok	Cil_pdl_7	Abil. cilindro aggancio ventose
P_syncro_10	%V4560.6 Pist8_no_ok	%Q5200.6 Cil_pdl_8 (S)	Abil. cilindro aggancio ventose
%V70a0.3	%v4560.7 Pist8_no_ok	%Q5200.7 Cil_pdl_8	Abil. cilindro aggancio ventose
P_syncro_11	%V4560.7 Pist9_no_ok	(R)	Abil. cilindro aggancio ventose
] []/[%V4561.0 Pist9_no_ok	(S) %Q5400.0 Cil_pdl_9	Abil. cilindro aggancio ventose
	1755_16_6K	(R) %Q5400.0	ADII. CIIIMIO agganeio vencose
49 Label: Step: Set	up_pv %M54.W = 24		
P_syncro_12] [Pist10_no_ok 	Cil_pdl_10 (S) %Q5400.1	Abil. cilindro aggancio ventose
	Pist10_no_ok] [Cil_pdl_10 	Abil. cilindro aggancio ventose
P_syncro_13	Pist11_no_ok	Cil_pdl_11(S)	Abil. cilindro aggancio ventose
%V70d0.3	%V4561.2 Pist11_no_ok _	%Q5400.2 Cil_pdl_11 (S)	Abil. cilindro aggancio ventose
	%V4561.2	%Q5400.2	

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Cil_pdl_12

(S) — %Q5400.3

Cil_pdl_12

(R) — %Q5400.3 Abil. cilindro aggancio ventose

Abil. cilindro aggancio ventose

Pist12_no_ok

___]/[___ %V4561.3

Pist12_no_ok ____] [____ %V4561.3

P_syncro_14

----] [----%V70e0.3

Step: Setup_pv

%M54.W = **24**

Vent_pdl_1] [Vent_pd1_2	Vent_pd1_3] [Vent_pdl_4	Vent_pd1_5	Vent_pdl_6] [%I5200.5	Input_1_6 () %V4033.1	input pistoncini ventose: piani
Cil_pdl_1 	Cil_pdl_2	Cil_pdl_3]/[Cil_pdl_4	Cil_pdl_5	Cil_pdl_6]/[%Q5200.5		
Vent_pdl_7	Vent_pd1_8	Vent_pd1_9] [Vent_pdl_10	Vent_pdl_11	Vent_pdl_12	Input_7_12 () %V4033.2	input pistoncini ventose: piani
Cil_pdl_7]/[Cil_pdl_8	Cil_pdl_9]/[Cil_pdl_10	Cil_pdl_11	Cil_pdl_12]/[%Q5400.3		
Pdl_ab] [Pdl_cd 					Input_ab_cd ()	input pistoncini piani area AB,
Cil_pdl_ab]/[Cil_pdl_cd]/[%Q5201.1						

51 Label: Step: Setup_pv %M54.W = 24

Fine_tent						Time_agg	bit per timer di attesa aggancio
%V4562.0						%V4033.6	
Time_agg	Fine_tent	Input_1_6	Input_7_12	Input_ab_cd	TON_75(2000)	Ps_ledf4	Led tasto F4
%V4033.6	%V4562.0	%V4033.1	%V4033.2	%V4033.3	E Q	%V200c.5	
(1)	T_in_corso	Fine_tent	TON_7b(500)	Time_agg		Setup_pv = 25	
	%V4562.1		E Q	%V4033.6		%M54.W = 0x19	
				Ps_f4	Ps_ledf4	Time_agg	bit per timer di attesa aggancio
				%V202a.6	%V200c.5	(R) %V4033.6	
						Ps_ledf4	Led tasto F4
						%V200c.5	
						goto(END)	
						——————————————————————————————————————	

(1) %V4033.1, %V4033.2, %V4033.3 : Input_1_6, Input_7_12, Input_ab_cd
[T] TON_75(0x7d0) : TON_75(2000)
[T] TON_7b(0x1f4) : TON_7b(500)

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Company:		NOM	1001	19
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el: S					
				Input_1_6	input pistoncini ventose:
				%V4033.1	
				Input_7_12	input pistoncini ventose:
				(R)	_
				Input_ab_cd	input pistoncini piani ar
				(R)	-
				Fine_tent	
				(R)	
				Agg_ok	
				*V4562.3	
el: S Sb_vent_a	tep: Setup_pv V_bl_ab	%M54.W = 25 Sb_vent_b	V_b1_b	(R)	verifica sblocco avvenuto
Sb_vent_a] [v_bl_ab	Sb_vent_b]/[(R) %V4562.3 Check_ab	verifica sblocco avvenuto
Sb_vent_a] [%Q5201.2	V_bl_ab	Sb_vent_b] [%Q5201.3		(R) %V4562.3 Check_ab	verifica sblocco avvenuto
Sb_vent_a] [v_bl_ab	Sb_vent_b]/[(R) %V4562.3 Check_ab	verifica sblocco avvenuto
Sb_vent_a] [v_bl_ab	Sb_vent_b]/[(R) %V4562.3 Check_ab	verifica sblocco avvenuto
Sb_vent_a] [%Q5201.2 Sb_vent_a] / [%Q5201.2 Sb_vent_c	V_bl_ab 	Sb_vent_b	7/[%15201.6 V_bl_cd	Check_ab () %V4032.5	
Sb_vent_a] [%Q5201.2 Sb_vent_a] / [%Q5201.2	V_bl_ab 	Sb_vent_b %Q5201.3 Sb_vent_b /[%Q5201.3	*I5201.6	Check_ab () %V4032.5	
Sb_vent_a [V_bl_ab 	Sb_vent_b	V_bl_cd	Check_ab () %V4032.5	
Sb_vent_a] [V_bl_ab 	Sb_vent_b	V_bl_cd	Check_ab () %V4032.5	verifica sblocco avvenuto verifica sblocco avvenuto

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Company:		MOM	TOOT	3
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54 Label: %M54.W Step: Setup pv = 25 Start asse n.... se predisposto e pos. a quota programma Check_ab Check_cd Start_move start movimentazione motori —(S)-%V4032.5 %V4032.6 %V4030.7 verifica sblocco avvenuto area A Check_ab — (R)-%V4032.5 Check_cd verifica sblocco avvenuto area C — (R)— %V4032.6 Setup_pv = 26 — (T) — %M54.W = 0x1a goto(END) — (T) — 55 Label: Step: Setup_pv %M54.W = 26 Movimento_pv piani o ventose in movimento —(S)-%V4032.0 End_move $Index_6 = 0$ End_move movimentazione motori eseguita —][-— т — — (R) – %V4031.0 M110a.W = 0x0%V4031.0 $Index_2 = 0$ — (T)— %M1102.W = 0x0Setup_pv = 31 — (T) — %M54.W = 0x1f goto(END)

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Company:		INOM	1001	5
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—(T)-

```
56 Label: RESET
                                     %M54.W = 31
                   Step: Setup_pv
     Index_6 < 84
                                                                                                                  (1)
     %M110a.W < 0x54</pre>
                                                                                                                -(R)-
                                                                                                            Index_6 += 1
                                                                                                               — (T) —
                                                                                                            %M110a.W += 0x1
                                                                                                             goto(RESET)
                                                                                                             —— (T)—
   (1) %V4500.3[%M110a.W] : Sincro_10_[Index_6]
57 Label:
                   Step: Setup_pv
                                     M54.W = 31
                                                                                indice di spaziamento
     Index_10 = 0
                                                                                                                  (1)
        — т —
                                                                                                                —(T)—
     M1112.W = 0x0
                                                                                                              Sb_pdl_ab
                                                                                                                             sblocco pdl area AB
                                                                                                                —(R)-
                                                                                                              %Q5201.6
                                                                                                              Sb_pdl_cd
                                                                                                                             sblocco pdl area CD
                                                                                                               — (R)—
                                                                                                              %Q5201.7
                                                                                                            Setup_pv = 32
                                                                                                               — (T) —
                                                                                                             %M54.W = 0x20
                                                                                                              goto(END)
                                                                                                               — (T)—
   (1) %M1518.W = %V402e.W : M1518 = Index_plc
```

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Company:		NOM	TOOL	io
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```
58 Label:
                                    M54.W = 32
                 Step: Setup pv
   Tab_pm[M1518] == 168
                                                                                                        Setup_pv = 33
       ___ 1>[ ___
                                                                                                           — (T)—
   %V5000.L[%M1518.W] == 0xa8
                                                                                                         M54.W = 0x21
   Tab_pm[M1518] != 168
                                                                                                                          tentativo di posizionare una ven
                                                                                                          Alarm pgm
       ___]>[___
                                                                                                           — ( ) —
   %V5000.L[%M1518.W] != 0xa8
                                                                                                           %V4031.5
                                                                                                        Setup pv = 99
                                                                                                           — (T)—
                                                                                                         M54.W = 0x63
                                                                                                          goto(END)
                                                                                                           —— (T) —
59 Label: M CORR Step: Setup pv
                                  %M54.W = 33
                                                                               nº piano o ventosa
   M1518 = M1518 + 4
                                                                                                              (1)
      — т —
   M1518.W = M1518.W + 0x4
   (1) %M1514.W = %V5000.L[%M1518.W] : M1514 = Tab_pm[M1518]
60 Label: Step: Setup_pv
                                    M54.W = 33
     Index_1 = 10
                      Index_2 = 0
                                       Index 3 = 0
                                                                                                         Index 8 = 0
       — т —
                      — т —
                                       — т —
                                                                                                            —(T)—
     M1100.W = 0xa
                     M1102.W = 0x0
                                      M1104.W = 0x0
                                                                                                         M110e.W = 0x0
61 Label:
                                    %M54.W = 33
                                                                             indice quota comandata
                  Step: Setup_pv
                                                                                                              (1)
                                                                                                             -(T)-
   (1) %M1518.W = %M1518.W + 0x8
                                 M1518 = M1518 + 8
                                    %M54.W = 33
62 Label: FASE33 Step: Setup_pv
                                                                      Memorizzazione Quote piani e ventose
   Index_1 == M1514
                                                       Index 10 += 1
                                                                                                              (1)
       ___]>[___
                                                          — т —
                                                                                                            -(T)-
   %M1100.W == %M1514.W
                                                       %M1112.W += 0x1
                                                                                                        goto(FASE33A)
                                                                                                           — (T) —
   (1) %M2010.L[%M110e.W] = %V5000.L[%M1518.W] : Piano_10[Index_8] = Tab_pm[M1518]
                       Author:
                                                                                                                              NUM TOOLS
                       Company:
                       Project: 1040_78.mch
                                                                                                                                      Date
                                                                                                                                                 28-02-2018
                                                                                   TITRE
```

Module: SETUP_PV.XLA

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```
63 Label:
                                    %M54.W = 33
                   Step: Setup_pv
                                                                                                            Index_1 += 1
                                                                                                               — (T)—
                                                                                                            %M1100.W += 0x1
                                                                                                            Index_2 += 1
                                                                                                               — (T)—
                                                                                                            %M1102.W += 0x1
                                                                                                            Index_3 += 1
                                                                                                               — (T)—
                                                                                                            %M1104.W += 0x1
                                                                                                            Index_8 += 4
                                                                                                               — (T)—
                                                                                                            %M110e.W += 0x4
64 Label:
                 Step: Setup_pv
                                    %M54.W = 33
     Index_1 > 126
                                                                                                              Alarm_pgm
                                                                                                                             tentativo di posizionare una ven
       ____]>[ ___
                                                                                                               __( ) _
     %M1100.W > 0x7e
                                                                                                              %V4031.5
                                                                                                            Setup_pv = 99
                                                                                                               — (T)—
                                                                                                             %M54.W = 0x63
      Index 2 < 7
                                                                                                            goto(FASE33)
       ____]>[___
                                                                                                               — (T) —
     %M1102.W < 0x7
     Index_2 == 7
                                                                          Index_2 = 0
                                                                                           Index_1 += 3
      ____]>[___
                                                                                            — т —
     %M1102.W == 0x7
                                                                          M1102.W = 0x0
                                                                                          %M1100.W += 0x3
65 Label: FASE33A Step: Setup pv
                                    %M54.W = 33
                                                                                                                  (1)
   (1) M1518.W = M1518.W + 0x8 : M1518 = M1518 + 8
```

Author:		NUM	тОО	ר כ <i>י</i>
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66 Label: Step: Setup_pv %M54.W = 33

Tab_pm[M1518] == 168 goto(M_CORR) ____]>[___ ——(T)— %V5000.L[%M1518.W] == 0xa8 Tab_pm[M1518] == 170 Setup_pv = 34 —] **>** [— — (T) — %V5000.L[%M1518.W] == 0xaa M54.W = 0x22(1) Tab_pm[M1518] != 170 Alarm_pgm ___]>[______]>[_____ ___() ___ %V5000.L[%M1518.W] != 0xaa %V4031.5 Setup_pv = 99 *M54.W = 0x63 goto(END) —— (T)—

tentativo di posizionare una ven

(1) %V5000.L[%M1518.W] != 0xa8 : Tab_pm[M1518] != 168

67 Label: Step: **Setup_pv** %M54.W = **34**

	Movimento_pv —(R) %V4032.0	piani o ventose in movimento
Cil_std = 0 T = 0x0 %Q5200.B = 0x0	Cil_add = 0 (T) %Q5400.B = 0x0	
	Cil_pdl_ab (R) %Q5201.0	Abil. cilindro aggancio area AB
	Cil_pdl_cd 	Abil. cilindro aggancio area CD

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```
68 Label:
                                         %M54.W = 34
                     Step: Setup_pv
            (1)
                               (2)
                                          Pdl_ab, Pdl_cd
                                                               TON_74(500)
                                                                                                                      Setup_pv = 35
                                               — ] / [ ——
                                                                                                                          — (Т) —
                                          %15201.0, %15201.1
                                                                                                                       %M54.W = 0x23
                                                                                                                        Sb_vent_a
                                                                                                                                         Blocco/sblocco ventose area A
                                                                                                                          — (R)-
                                                                                                                         %Q5201.2
                                                                                                                        Sb_vent_b
                                                                                                                                         Blocco/sblocco ventose area B
                                                                                                                         — (R)—
                                                                                                                         %Q5201.3
                                                                                                                        Sb_vent_c
                                                                                                                                         Blocco/sblocco ventose area C
                                                                                                                         — (R)-
                                                                                                                         %Q5201.4
                                                                                                                        Sb_vent_d
                                                                                                                                         Blocco/sblocco ventose area D
                                                                                                                         — (R) –
                                                                                                                         %Q5201.5
                                                                                                                        goto(END)
                                                                                                                         — (T) —
   (1) %I5200.B == 0x0 : Vent_pdl_std == 0 (2) %I5400.B == 0x0 : Vent_pdl_add == 0
   [T] TON_74(0x1f4) : TON_74(500)
69 Label:
                     Step: Setup_pv
                                         %M54.W
                                                     = 35
                                                                                                                        Step_setup
                                                                                                                                         fine posizionamento step SETUP
                                                                                                                          —(S)—
                                                                                                                         %V4030.4
                                                                                                                      Setup_pv = 0
                                                                                                                          — (T)—
                                                                                                                       M54.W = 0x0
```

70 Label: END Step:

Author:		NTTM	TOOL	d
Company:		INOM	1001	5
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Module: SETUP_PV.XLA		%SP219 (68)	Page	26

Label: Step:		VERIFICA CARICAMENTO NUC	OVO PROGRAMMA	
X_pgm_a	Sel_man_aut	V207_4	Change_prg_a	Nuovo programma in corso area A
%V531.0	%I4101.4	R_T	%V4034.4	
X_pgm_e				
%V531.4				
X_pgm_b	Sel_man_aut	V207_5	Change_prg_b	Nuovo programma in corso area B
%V531.1	%I4101.4	R_T	%V4034.5	
X_pgm_f				
%V531.5				
X_pgm_c	Sel_man_aut	V207_5.6	Change_prg_c	Nuovo programma in corso area C
%V531.2	%I4101.4	R_T	%V4034.6	
X_pgm_g				
%V531.6				
abel: Step:				
X_pgm_d	Sel man aut	V207 7	Change_prg_d	Nuovo programma in corso area D

X_pgm_d		Sel_man_aut	V207_7	Change_prg_d	Nuovo programma in corso area D
%V531.3		%I4101.4		(S)— %V4034.7	
X_pgm_h					
%V531.7	_				
Start_a	Change_prg_a			Inib_start_a	Inibizione start area A
%I4201.3	*V4034.4			(S)— %V4035.0	
Start_b	Change_prg_b			Inib_start_b	Inibizione start area B
%I4201.4	%V4034.5			%V4035.1	
Start_c	Change_prg_c			Inib_start_c	Inibizione start area C
%I4201.5	%V4034.6			(S)— %V4035.2	
Start_d	Change_prg_d			Inib_start_d	Inibizione start area D
%I4201.6				%V4035.3	

Author:		NUM	TOOLS	1
Company:		MOM	тоопа	•
Project: 1040_78.mch	TITRE		Date	28-02-2018
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02 Label:

Step:

App_setupa	Change_prg_	a Nuovo programma in corso area A
%V4034.0	*V4034.4	
X_end]/[%V503.0	Inib_start	a Inibizione start area A
Sel_man_aut]/[%14101.4		
Amm mahamb	Change and	
App_setupb	Change_prg_	b Nuovo programma in corso area B
*V4034.1	Change_prg_	b Nuovo programma in corso area B
] [(R)	

03 Label: Step:

App_setupc	Change_prg_c	Nuovo programma in corso area C
%V4034.2	- (R) - %V4034.6	
X_end	Inib_start_c	Inibizione start area C
7 / [\(R)	
Sel_man_aut		
App_setupd	Change_prg_d	Nuovo programma in corso area D
%V4034.3	(R)	
X_end	Inib_start_d	Inibizione start area D
%V503.0	\(R) \%V4035.3	
Sel_man_aut		

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Company:		NOM	тоопр	
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04 Label:

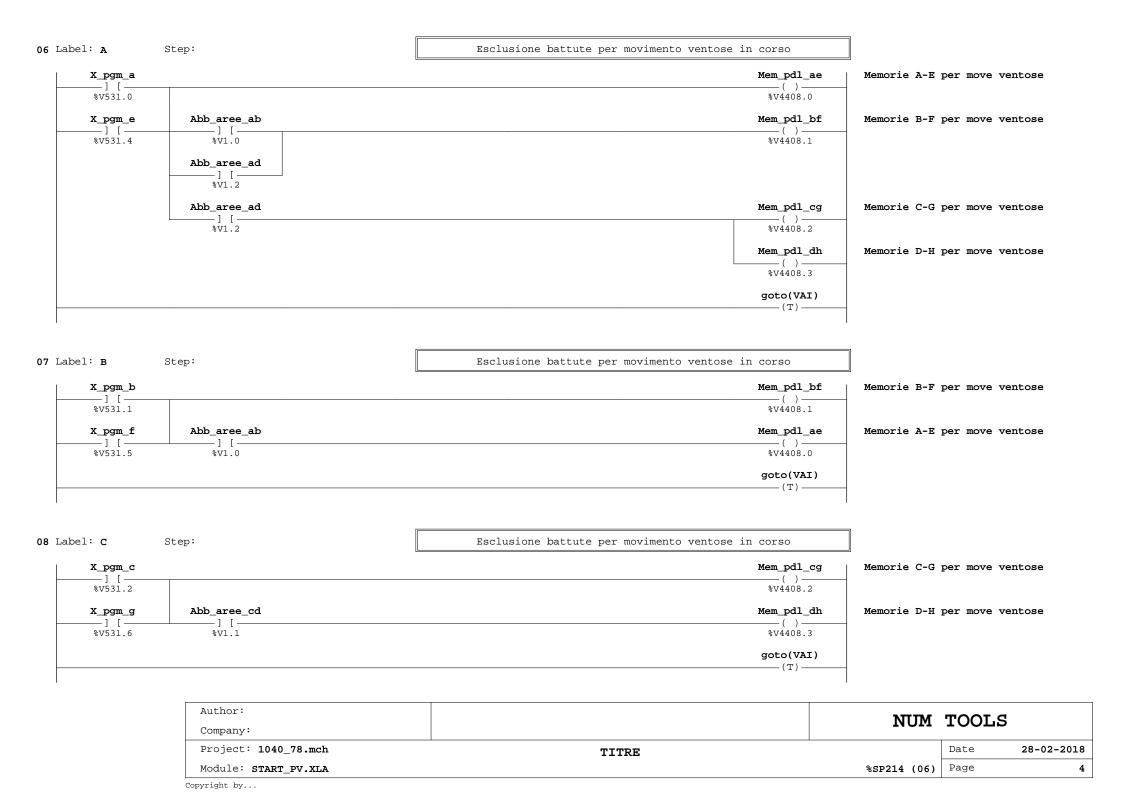
Step:

App_setupa, App_setupb, App_setupc, App_setupd	Raz_pv == 5	Mem_pdl_ae (R)	Memorie A-E per move ventose
%V4034.0, %V4034.1, %V4034.2, %V4034.3	%M58.W == 0x5	%V4408.0	
	Movimento_pv	Mem_pdl_bf	Memorie B-F per move ventose
	%V4032.0	%V4408.1	
		Mem_pdl_cg	Memorie C-G per move ventose
		(R) %V4408.2	
		Mem_pdl_dh	Memorie D-H per move ventose
		(R)———— %V4408.3	

05 Label: Step:

App_setupa	goto(A)
*V4034.0	(T)—
App_setupb	goto(B)
7 [(T)
App_setupc	goto(C)
	(T)
App_setupd	goto(D)
%V4034.3	(T)—
	goto(VAI)
	- (T)

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Company:		INOM	тоопр	
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09 Label: D Step: Escl

Esclusione battute per movimento ventose in corso

X_pgm_d		Mem_pdl_dh	Memorie D-H per move ventose
%V531.3		%V4408.3	
X_pgm_h] [%V531.7	Abb_aree_cd] [%V1.1	Mem_pdl_cg () %V4408.2	Memorie C-G per move ventose
	Abb_aree_ad] [
	Abb_aree_ad] [%V1.2	Mem_pdl_ae () %V4408.0	Memorie A-E per move ventose
		Mem_pdl_bf ()	Memorie B-F per move ventose

10 Label: VAI Step:

Msg_184	Setup_a	V211_2.3		App_setupa	appoggio start setup area A
%V3037.0	%I5201.2	F_T- %V211.3		(R) %V4034.0	
	Setup_b			App_setupb	appoggio start setup area B
	%I5201.3			(R)	
	Setup_c			App_setupc	appoggio start setup area C
	%I5201.4	-		(R)	
	Setup_d			App_setupd	appoggio start setup area D
	%I5201.5	-		(R)	
	Ps_f2			Test_pgm = 0	
	%V202b.1			(T) %M48.W = 0x0	
				No_setup	bit setup non programmato
			L	(R)————————————————————————————————————	-

Author:		NTTM	TOOLS	2
Company:		NOM	TOOLS	•
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: START_PV.XLA		%SP214 (09)	Page	5

11 Label: Step: Start setup area A X pgm a (1) Raz_pv == 0 Emer_move == 0 Statoa_x == 8 (2) Setupa_x Setup area A _]>[_ _]>[_ _] > [___ -(S)-M58.W == 0x0M46.W == 0x0%V52e.3 %V531.0 %V518.B == 0x8 X pgm_e —][— %V531.4 X_setupa appoggio start setup area A App_setupa —(S)-—] [— %V1150.0 %V4034.0 Setupa_x Setup area A — (R)-%V52e.3 (1) %V5b4.0, %V5b4.4, %V5b5.0, %V5b5.4, %V4034.0, %V4034.1, %V4034.2, %V4034.3 : X_exec_a, X_next_a, X_next_e, App_setupa, App_setupb, App_setupc, App_setupd (2) %I5201.2, %I4101.4, %I4000.6 : Setup_a, Sel_man_aut, Emer_gen **12** Label: Step: Start setup area B X pgm b (1) $Raz_pv == 0$ Emer move == 0 Statob x == 8(2) Setupb_x Setup area B —] **>** [— —] **>** [— —] **>** [— —(S)— —][— %M58.W == 0x0 %M46.W == 0x0 %V519.B == 0x8 %V52e.4 %V531.1 X pgm f — 1 [— %V531.5 X_setupb App_setupb appoggio start setup area B —][— —(S)-%V1150.1 %V4034.1 Setupb x Setup area B

(1) %V5b4.1, %V5b4.5, %V5b5.1, %V5b5.5, %V4034.0, %V4034.1, %V4034.2, %V4034.3 : X_exec_b, X_exec_f, X_next_b, X_next_f, App_setupa, App_setupd, App_setupd

(2) %I5201.3, %I4101.4, %I4000.6 : Setup_b, Sel_man_aut, Emer_gen

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Company:		INOM	10015	
Project: 1040_78.mch	TITRE		Date	28-02-2018
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— (R)— %V52e.4 13 Label: Step: Start setup area C X pgm c (1) Raz_pv == 0 Emer_move == 0 Statoc_x == 8 (2) Setupc_x Setup area C _]>[_ _]>[_ __]>[__ -(S)-M58.W == 0x0M46.W == 0x0%V525.2 %V531.2 V51a.B == 0x8X pgm g —][— %V531.6 X_setupc appoggio start setup area C App_setupc —(S)— —] [— %V1150.7 %V4034.2 Setupc_x Setup area C — (R)-%V525.2 (1) %V5b4.2, %V5b4.6, %V5b5.2, %V5b5.6, %V4034.0, %V4034.1, %V4034.2, %V4034.3 : X_exec_c, X_exec_g, X_next_g, App_setupa, App_setupb, App_setupc, App_setupd (2) %I5201.4, %I4101.4, %I4000.6 : Setup_c, Sel_man_aut, Emer_gen **14** Label: Step: Start setup area D X pgm d (1) $Raz_pv == 0$ Emer move == 0 Statod x == 8(2) Setupd_x Setup area D —] **>** [— —] **>** [— —] **>** [— —(S)— —][— %M58.W == 0x0 %M46.W == 0x0 %V51b.B == 0x8 %V525.3 %V531.3 X pgm h — 1 [— %V531.7 X_setupd App_setupd appoggio start setup area D —][— —(S)-%V1151.0 %V4034.3 Setupd x Setup area D

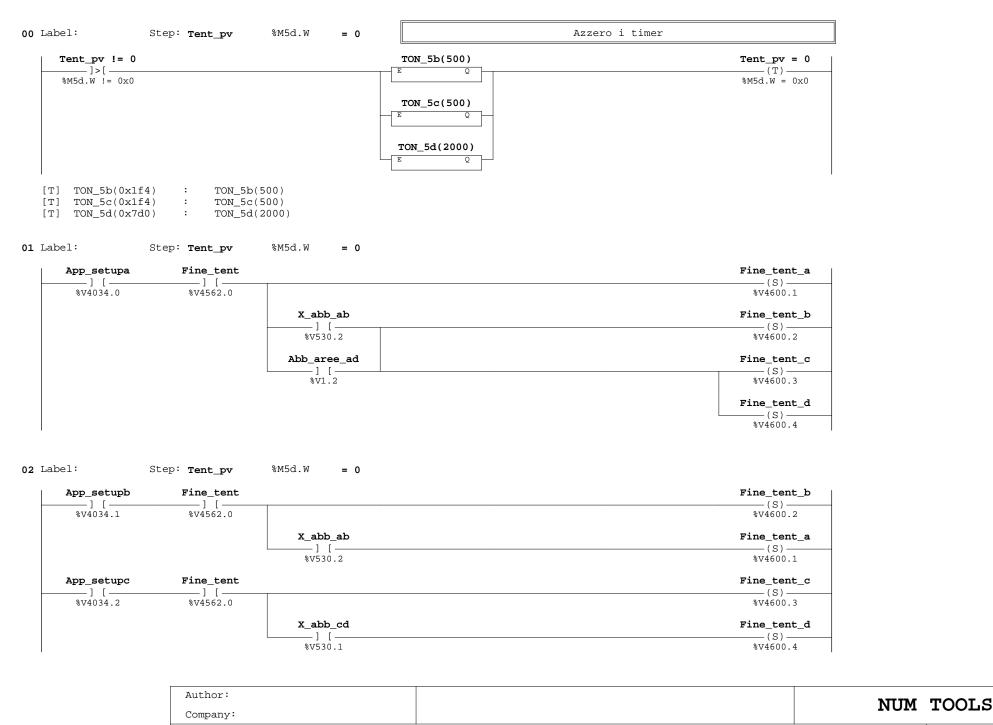
- (1) %V5b4.3, %V5b5.3, %V5b5.7, %V4034.0, %V4034.1, %V4034.2, %V4034.3 : X_exec_d, X_exec_h, X_next_h, App_setupa, App_setupb, App_setupd
- (2) %I5201.5, %I4101.4, %I4000.6 : Setup_d, Sel_man_aut, Emer_gen

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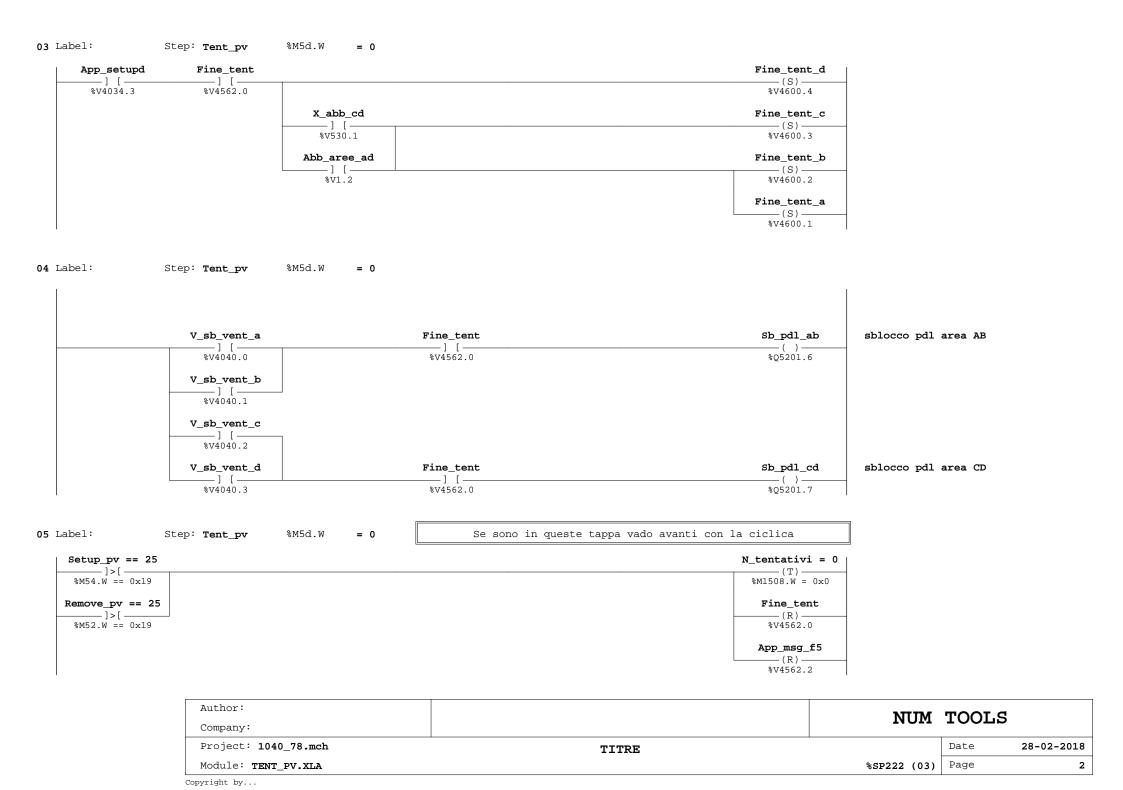
15 Label: END Step:

Author:		NUM	тоот	· C
Company:		INOM	1001	JD OIL
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Module: START_PV.XLA		%SP214 (13)	Page	7

— (R)— %V525.3



Project: 1040_78.mch Date 28-02-2018 TITRE Module: TENT_PV.XLA %SP222 (00) Page 1 Copyright by...



06 Label: Step: Tent_pv %M5d.W = 0 VERIFICO DOVE SONO CON I TENTATIVI

N_tentativi > 0 N_tentativi <= 2</pre> T_in_corso __]>[___ — (S) — %M1508.W <= 0x2 %M1508.W > 0x0 %V4562.1 Setup_pv == 24 (1) TON_5a(2200) Fine_tent Ps_ledf4 (2) $Tent_pv = 1$ ____]>[____ — 1⁷[— __]/[__ _]>[_ —— (T)—— %M54.W == 0x18 %V4562.0 %V200c.5 M5d.W = 0x1Remove_pv == 24 Fine_tent Ps_f5 N_tentativi = 0 $Tent_pv = 3$ ____]>[____ —][— — т — — (T)— %M52.W == 0x18 %V4562.0 %V202b.2 M1508.W = 0x0M5d.W = 0x3Fine_tent —— (R)— %V4562.0 App_msg_f5 ___() ___ %V4562.2 goto(END) — (T) —

(1) %M1508.W == 0x0 : N_tentativi == 0 (2) %M1508.W += 0x1 : N_tentativi += 1 [T] TON_5a(0x898) : TON_5a(2200)

07 Label: Step: Tent pv %M5d.W = 1

V_sb_vent_a 	Sb_vent_a
V_sb_vent_b 	Sb_vent_b (R) %Q5201.3 Blocco/sblocco ventose area B
V_sb_vent_c 	Sb_vent_c Blocco/sblocco ventose area C
V_sb_vent_d 	Sb_vent_d

Author:		NUM	TOOT	d
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Module: TENT_PV.XLA		%SP222 (06)	Page	3

08 Label:	Step: Tent_pv	%M5d.W	= 1	memorizzo pistone non alto e lo metto in seria sulla tappa 24
-----------	---------------	--------	-----	---------------------------------------------------------------

Cil_pdl_1] [Vent_pdl_1 	Pist1_no_ok
Cil_pdl_2] [%Q5200.1	Vent_pd1_2]/[Pist2_no_ok (S)
Cil_pdl_3] [%Q5200.2	Vent_pd1_3	Pist3_no_ok ————————————————————————————————————
Cil_pdl_4	Vent_pdl_4 	Pist4_no_ok (S) %V4560.3
Cil_pdl_5 	Vent_pd1_5]/[Pist5_no_ok
Cil_pdl_6] [Vent_pdl_6]/[Pist6_no_ok

09 Label:	Step: Tent py	%M5d.W	= 1

Cil_pdl_7	Vent_pdl_7 	Pist7_no_ok (S) %V4560.6
Cil_pdl_8 	Vent_pd1_8 	Pist8_no_ok (S) %V4560.7
Cil_pdl_9] [Vent_pd1_9 	Pist9_no_ok (S) %V4561.0
Cil_pdl_10] [Vent_pdl_10 	Pist10_no_ok (S) %V4561.1
Cil_pdl_11	Vent_pdl_11	Pist11_no_ok
Cil_pdl_12] [Vent_pdl_12	Pist12_no_ok (S) %V4561.3

Author:		NTTM	TOOLS	•
Company:		NOM	тоопа	•
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: TENT_PV.XLA		%SP222 (08)	Page	4

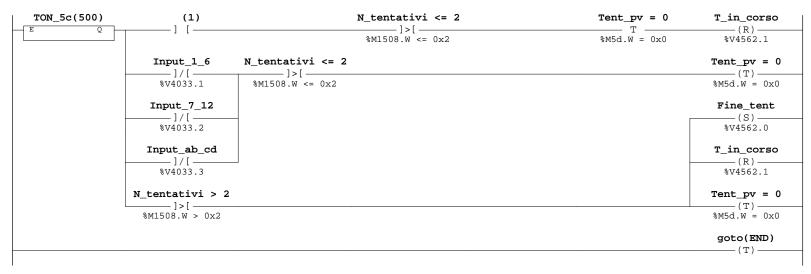
Step: Tent_pv Cil_pdl_ab Pdl_ab Pistab_no_ok —][— —]/[— —(S)— %V4561.4 %Q5201.0 %I5201.0 Cil_pdl_cd Pdl_cd Pistcd_no_ok -] / [-—(S)-%I5201.1 %V4561.5 %Q5201.1 **11** Label: Step: Tent_pv %M5d.W = 1 resetto i pistoncini interessati TON_5b(500) $Tent_pv = 2$ — (T)— M5d.W = 0x2goto(END) — (T)-[T] $TON_5b(0x1f4)$: $TON_5b(500)$ **12** Label: Step: Tent_pv %M5d.W = 2 Resetto la variabile che in tappa 24 (setup) cosi set l'out N_tentativi <= 2 P9_14_no_ok = 0 P1_8_no_ok = 0 __]>[_ — т — ——— (T)— %M1508.W <= 0x2 V4561.B = 0x0V4560.B = 0x0

M5d.W = 1

10 Label:

Author:		NITIM	TOOLS		
Company:		NOM	тоопр		
Project: 1040_78.mch	TITRE		Date	28-02-2018	
Module: TENT_PV.XLA		%SP222 (10)	Page	5	
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13 Label: Step: Tent_pv %M5d.W = 2



(1) %V4033.1, %V4033.2, %V4033.3 : Input_1_6, Input_7_12, Input_ab_cd

[T] $TON_5c(0x1f4)$: $TON_5c(500)$

14 Label: Step: Tent_pv %M5d.W = 3

Author:		NTTM	TOOLS	
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Module: TENT_PV.XLA		%SP222 (13)	Page	6

15 Label: Step: Tent_pv M5d.W = 3V_sb_vent_a Sb_vent_a Blocco/sblocco ventose area A —][— — (R)— %Q5201.2 %V4040.0 V_sb_vent_b Sb_vent_b Blocco/sblocco ventose area B —(R)-%V4040.1 %Q5201.3 V_sb_vent_c Sb_vent_c Blocco/sblocco ventose area C __][_ — (R)— %V4040.2 %Q5201.4 V_sb_vent_d Sb_vent_d Blocco/sblocco ventose area D — (R) — —][— %V4040.3 %Q5201.5 $Tent_pv = 4$ — (T) — M5d.W = 0x4goto(END) — (T)— **16** Label: Step: Tent_pv %M5d.W = 4 P9_14_no_ok = 0 P1_8_no_ok = 0 ____(T)__ — т — V4561.B = 0x0%V4560.B = 0x0

[T] $TON_5d(0x7d0)$: $TON_5d(2000)$

A	author:		NTTM	TOOL	d
С	Company:		NOM	TOOL	5
P	Project: 1040_78.mch	TITRE		Date	28-02-2018
M	Module: TENT_PV.XLA		%SP222 (15)	Page	7

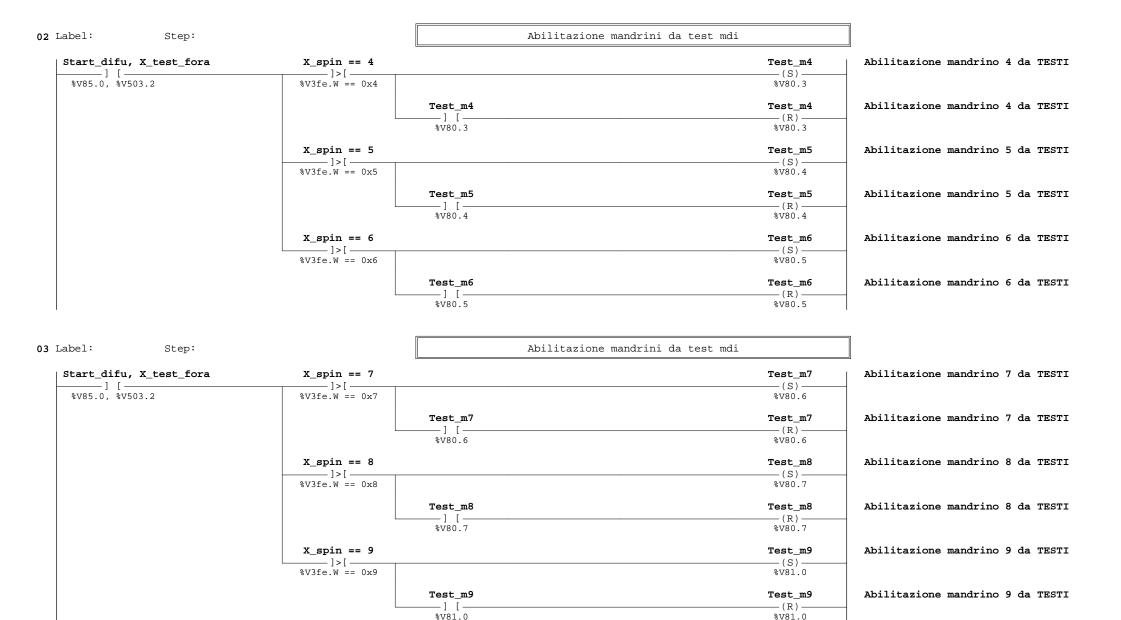
17 Label: END Step:

Author:		NITTM	TOOLS	
Company:		MOH	тоопр	
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: TENT_PV.XLA		%SP222 (17)	Page	8

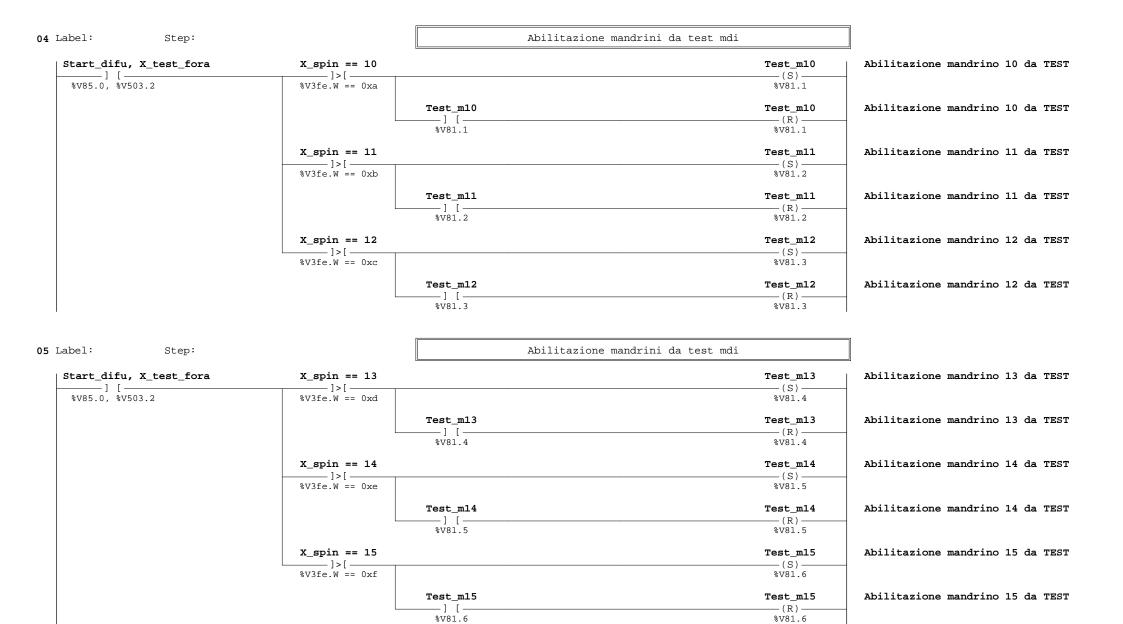
00 Label: Step: Abilitazione mandrini da test mdi Ps_start X_test_fora Sttestio_x Start TESTIO manuali (0=no 1=si) %V503.2 %V513.6 %V202a.0 Modcour == 2 ___]>[___ %R16.B == 0x2 Ps_start V204_7 Start_difu Mem. start DIFU —R_T-— () – —][-%V204.7 %V202a.0 %V85.0 01 Label: Step: Abilitazione mandrini da test mdi Start_difu, X_test_fora $X_{spin} == 1$ $Test_m1$ Abilitazione mandrino 1 da TESTI _]>[_ —(S)-%V85.0, %V503.2 %V3fe.W == 0x1 %V80.0 Abilitazione mandrino 1 da TESTI Test m1 Test m1

—] [-—(R)— %V80.0 %V80.0 $X_{spin} == 2$ $Test_m2$ Abilitazione mandrino 2 da TESTI —] **>** [— —(S)— %V3fe.W == 0x2 %V80.1 Abilitazione mandrino 2 da TESTI $\mathtt{Test}_{\mathtt{m2}}$ $Test_m2$ — 1 [— —(R)-%V80.1 %V80.1 $X_spin == 3$ Abilitazione mandrino 3 da TESTI Test_m3 __] > [___ —(S)-%V3fe.W == 0x3 %V80.2 Abilitazione mandrino 3 da TESTI $\mathtt{Test}_{\mathtt{m}3}$ $Test_m3$ -1 [-—(R)-%V80.2 %V80.2

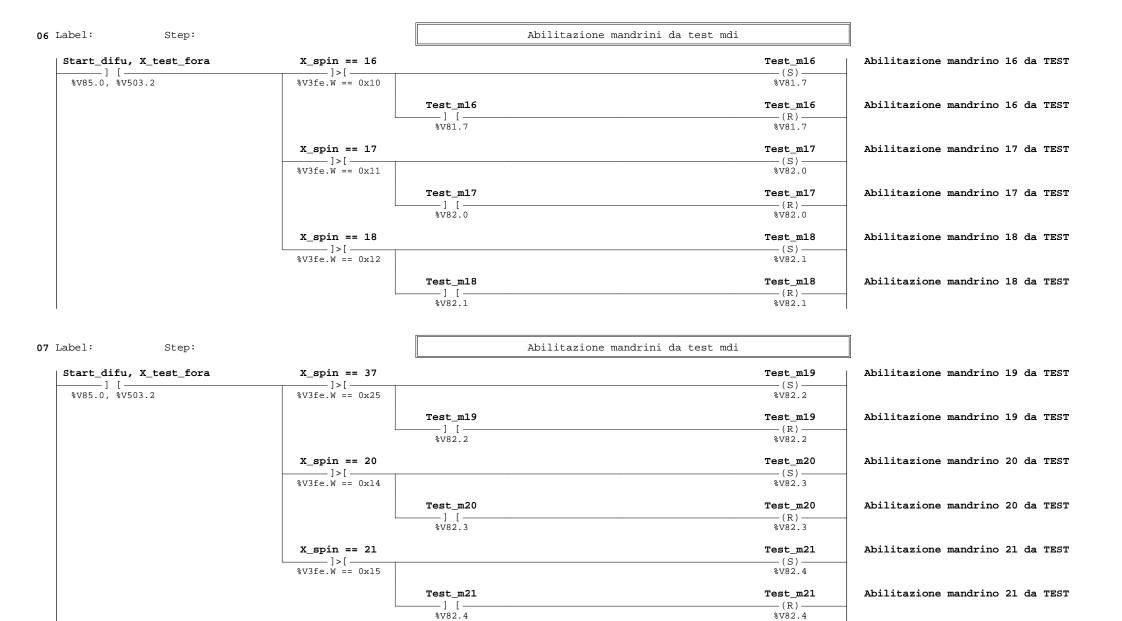
Author:		NITIM	TOOLS	1
Company:		MOM	TOOT	9
Project: 1040_78.mch	TITRE	•	Date	28-02-2018
Module: TEST_M.XLA		%SP6 (00)	Page	1



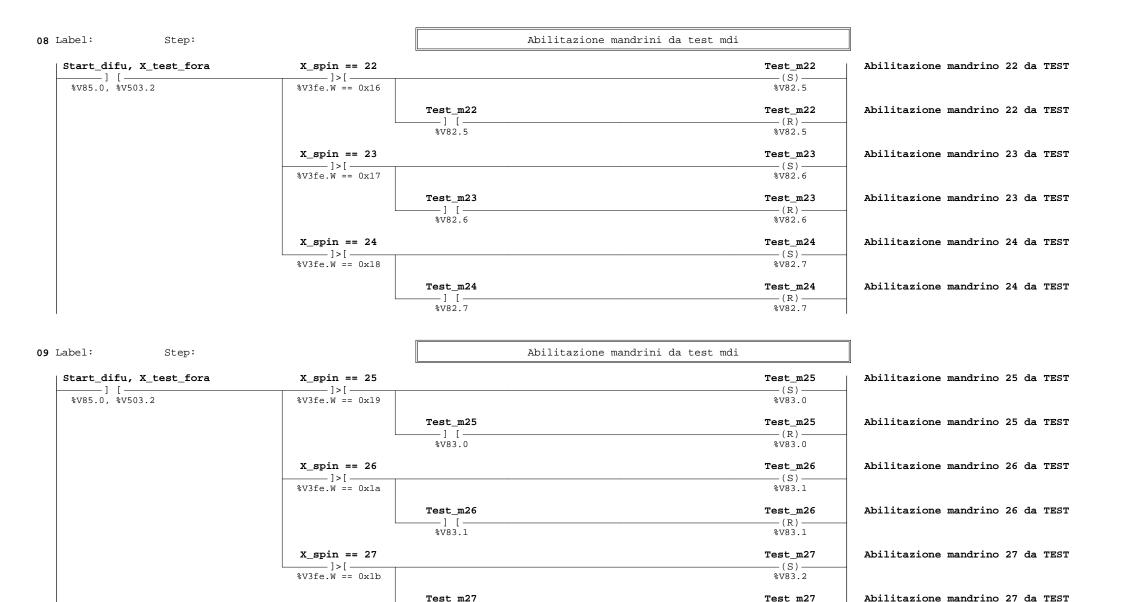
Author:		NUM	TOOL	C
Company:		MOM	TOOL	.
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: TEST_M.XLA		%SP6 (02)	Page	2



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Company:		INOM	1001	10
Project: 1040_78.mch	TITRE		Date	28-02-2018
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Author:		NUM TOOLS		LS
Company:				
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: TEST_M.XLA		%SP6 (06)	Page	4



—][-

%V83.2

Author:		NUM TOOLS		
Company:		MOM	1001	10
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: TEST_M.XLA		%SP6 (08)	Page	5

—(R)—

%V83.2

10 Label: Abilitazione mandrini da test mdi Step: Start_difu, X_test_fora $X_{spin} == 28$ Test_m28 Abilitazione mandrino 28 da TEST -]>[— —(S)-%V85.0, %V503.2 %V3fe.W == 0x1c %V83.3 Test m28 Test m28 Abilitazione mandrino 28 da TEST _1 [-—(R)— %V83.3 %V83.3 Abilitazione mandrino 29 da TEST $X_{spin} == 29$ Test_m29 —] **>** [— -(S)-%V3fe.W == 0x1d %V83.4 Abilitazione mandrino 29 da TEST Test m29 Test m29 ___1 [___ —(R)-%V83.4 %V83.4 Abilitazione mandrino 30 da TEST $X_spin == 36$ Test_m30 —(S)-V3fe.W == 0x24%V79.6 Test m30 Abilitazione mandrino 30 da TEST Test m30 _][-—(R)— %V79.6 %V79.6 11 Label: Step: Abilitazione mandrini da test mdi Abilitazione mandrino OR1 da TES Start_difu, X_test_fora $X_spin == 30$ Test_mo1 _] > [_ -1 [-—(S)-%V85.0, %V503.2 %V3fe.W == 0x1e %V83.5 Abilitazione mandrino OR1 da TES $Test_mol$ Test_mo1 —(R)-%V83.5 %V83.5 $X_{spin} == 31$ Abilitazione mandrino OR2 da TES Test_mo2 __ 1 < f __ —(S)-%V3fe.W == 0x1f %V83.6 Test mo2 Abilitazione mandrino OR2 da TES Test_mo2 -1 [--(R)-%V83.6 %V83.6 X spin == 32 Test mo3 Abilitazione mandrino OR3 da TES

Author:		NUM	TOOLS	
Company:		HOH	тоопр	
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: TEST_M.XLA		%SP6 (10)	Page	6

—(S)—

%V83.7

Test mo3

—(R)—

%V83.7

Abilitazione mandrino OR3 da TES

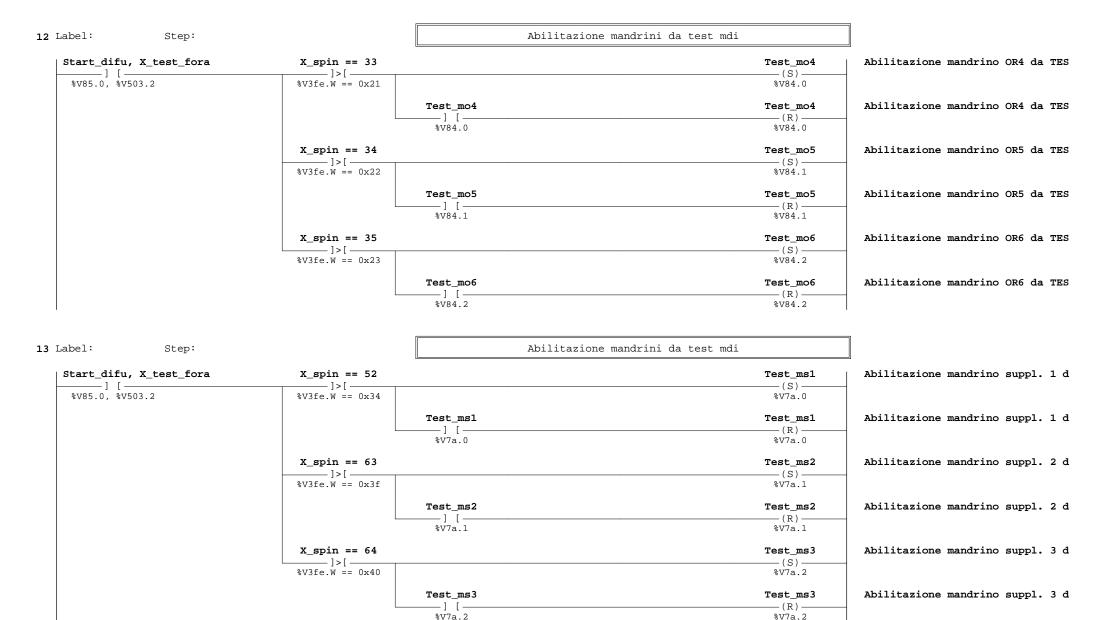
—] **>** [—

Test mo3

—][-

%V83.7

%V3fe.W == 0x20



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Company:		INOM	1001	5
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Abilitazione mandrini da test mdi 14 Label: Step: Start_difu, X_test_fora $X_{spin} == 55$ Abilitazione mandrino suppl. 4 d Test_ms4 -] **>** [— -(S)-%V85.0, %V503.2 %V3fe.W == 0x37 %V7a.3 Test ms4 Test ms4 Abilitazione mandrino suppl. 4 d _1 [-—(R)-%V7a.3 %V7a.3 $X_spin == 56$ Test_ms5 Abilitazione mandrino suppl. 5 d —] **>** [— —(S)-%V3fe.W == 0x38 %V7a.4 Test ms5 Test ms5 Abilitazione mandrino suppl. 5 d ___1 [-—(R)-%V7a.4 %V7a.4 $X_spin == 57$ Test_ms6 Abilitazione mandrino suppl. 6 d —(S)-%V3fe.W == 0x39 %V7a.5 Abilitazione mandrino suppl. 6 d Test ms6 Test ms6 _][-—(R)-%V7a.5 %V7a.5 **15** Label: Step: Abilitazione mandrini da test mdi Start_difu, X_test_fora $X_{spin} == 58$ Test_ms7 Abilitazione mandrino suppl. 7 d _] > [_ -1 [-—(S)-%V85.0, %V503.2 %V3fe.W == 0x3a %V7a.6 $Test_ms7$ Test_ms7 Abilitazione mandrino suppl. 7 d _1 [-—(R)-%V7a.6 %V7a.6 $X_{spin} == 59$ Test_ms8 Abilitazione mandrino suppl. 8 d __1>[_ —(S)-V3fe.W == 0x3b%V7a.7 Test ms8 Abilitazione mandrino suppl. 8 d Test_ms8 -1 [-—(R)-%V7a.7 %V7a.7 X spin == 60 Test ms9 Abilitazione mandrino suppl. 9 d __]>[__ —(S)-

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%V7b.0

Test ms9

—(R)-

%V7b.0

Abilitazione mandrino suppl. 9 d

%V3fe.W == 0x3c

Test ms9

%V7b.0

—][-

16 Label: Step:

Abilitazione mandrini da test mdi

Start_difu, X_test_fora	X_spin == 61		Test_ms10 (S)	Abilitazione mandrino suppl. 10
%V85.0, %V503.2	%V3fe.W == 0x3d		%V7b.1	
		Test_ms10	Test_ms10	Abilitazione mandrino suppl. 10
		%V7b.1	(R) %V7b.1	
	X_spin == 62		Test_ms11	Abilitazione mandrino suppl. 11
	%V3fe.W == 0x3e		(S) %V7b.6	
		Test_ms11	Test_ms11	Abilitazione mandrino suppl. 11
] [(R) %V7b.6	
	X_spin == 53		Test_msox1	Abilitazione mandrino suppl. or.
	<pre>%V3fe.W == 0x35</pre>		(S)	
		Test_msox1	Test_msox1	Abilitazione mandrino suppl. or.
	L] [(R)	

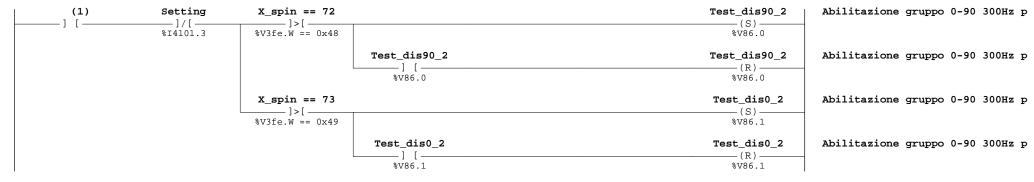
17 Label: Step:

Start_difu, X_test_fora	X_spin == 54	Test_msox2	Abilitazione mandrino suppl. or.
%V85.0, %V503.2	%V3fe.W == 0x36	%V7c.1	
	Test_msox2	Test_msox2 (R) %V7c.1	Abilitazione mandrino suppl. or.
	<pre>X_spin == 65]>[%V3fe.W == 0x41</pre>	Test_msox3(S) %V7c.2	Abilitazione mandrino suppl. or.
	Test_msox3] [%V7c.2	Test_msox3 (R) %V7c.2	Abilitazione mandrino suppl. or.

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18 Label:

Step:



(1) %V85.0, %V503.2 : Start_difu, X_test_fora

19 Label: Step:

Abilitazione mandrini da test mdi

(1	1) Setting	X_spin == 48		Test_cer	Abilitazione testina cerniere da
] [%I4101.3	%V3fe.W == 0x30		(S) %V79.4	
			Test_cer -] [%V79.4	Test_cer (R) %V79.4	Abilitazione testina cerniere da
		<pre>X_spin == 82</pre>		Test_flo1 (S) %V79.5	Abilitazione flottante N.1 da TE
		X_spin == 83 	Test_flo1	Test_flo1 (R)- %V79.5	Abilitazione flottante N.1 da TE
		X_spin == 84 		Test_flo2(S)- %V79.3	Abilitazione flottante N.2 da TE
		X_spin == 85 >[%V3fe.W == 0x55	Test_flo2	Test_flo2 (R) %V79.3	Abilitazione flottante N.2 da TE

(1) %V85.0, %V503.2 : Start_difu, X_test_fora

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Company:		MOM	1001	10
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20 Label: Abilitazione mandrini da test mdi Step: (1) Setting $X_{spin} == 70$ Test_dis90 Abilitazione fresa disco 90 _]>[__ -]/[-—(S)-%V3fe.W == 0x46 %I4101.3 %V84.7 X spin == 80 Test dis90 Test dis90 Abilitazione fresa disco 90 ____1>[___ _1 [_ —(R)— %V3fe.W == 0x50 %V84.7 %V84.7 $X_spin == 71$ Test_dis0 Abilitazione fresa disco 0 ____]>[___ —(S)— %V3fe.W == 0x47 %V84.6 Abilitazione fresa disco 0 $X_spin == 81$ Test dis0 Test_dis0 — 1 [– — (R)-%V3fe.W == 0x51 %V84.6 %V84.6 $X_spin == 19$ Test_difi Abilitazione fresa disco fissa ____]>[___ —(S)-V3fe.W == 0x13%V85.7 Test difi Test difi Abilitazione fresa disco fissa — 1 [— — (R)— %V85.7 %V85.7 (1) %V85.0, %V503.2 : Start_difu, X_test_fora 21 Label: Step: Abilitazione mandrini da test mdi (1) Setting X spin == 90 Test tas Abilitazione tastatore _] / [_ ___]>[___ —(S)-%I4101.3 %V3fe.W == 0x5a %V79.7 Test_tas Test tas Abilitazione tastatore —][-—(R)-%V79.7 %V79.7 X spin == 91Test fol Abilitazione fresa orizzontale g ___]>[__ —(S)— %V3fe.W == 0x5b %V86.3 Test fol Test fol Abilitazione fresa orizzontale q —(R)-%V86.3 %V86.3 $X_{spin} == 92$ $Test_fd1$ Abilitazione fresa disco gruppo — l>[— —(S)-%V3fe.W == 0x5c %V86.4 Test fd1 Test fd1 Abilitazione fresa disco gruppo

__1 [_

%V86.4

(1) %V85.0, %V503.2 : Start_difu, X_test_fora

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—(R)-

%V86.4

22 Label: Abilitazione mandrini da test mdi Step: (1) Setting $X_{spin} == 93$ Test_fo2 Abilitazione fresa orizzontale g -] **>** [— —(S)-%V3fe.W == 0x5d %I4101.3 %V86.6 Test fo2 Test fo2 Abilitazione fresa orizzontale g — 1 [-—(R)— %V86.6 %V86.6 $X_{spin} == 94$ Test_fd2 Abilitazione fresa disco gruppo —] **>** [— —(S)-%V3fe.W == 0x5e %V86.5 Test fd2 Test fd2 Abilitazione fresa disco gruppo ___1 [___ —(R)-%V86.5 %V86.5 $X_{spin} == 100$ $Test_ell$ Abilitazione elettromandrino n.1 ____] > [___ —(S)-V3fe.W == 0x64%V84.3 Abilitazione elettromandrino n.1 Test_el1 Test el1 _1 [_ — (R) — %V84.3 %V84.3 (1) %V85.0, %V503.2 Start_difu, X_test_fora 23 Label: Step: Abilitazione mandrini da test mdi (1) Setting X spin == 200 Test el2 Abilitazione elettromandrino n.2 -] / [-—] > [— —(S)-%I4101.3 %V3fe.W == 0xc8 %V84.4 Test_el2 Test el2 Abilitazione elettromandrino n.2 —][-—(R)-%V84.4 %V84.4 Abilitazione elettromandrino n.3 X spin == 300 Test el3 ___]>[__ —(S)— %V3fe.W == 0x12c %V84.5 Abilitazione elettromandrino n.3 Test el3 Test el3 _1 [-—(R)-%V84.5 %V84.5 Abilitazione elettromandrino n.4 X_spin == 400 Test_el4 — 1> [— —(S)-%V3fe.W == 0x190 %V85.1 Abilitazione elettromandrino n.4 Test el4 Test el4 —][-—(R)-%V85.1 %V85.1 (1) %V85.0, %V503.2 : Start_difu, X_test_fora

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24 Label: Step:

Abilitazione mandrini da test mdi

(1) Setting X_spin == 500 Test_el5 -]/[-_]>[_ —(S)-%I4101.3 %V3fe.W == 0x1f4 %V79.0 Test el5 Test_el5 _] [_ —(R)— %V79.0 %V79.0 X_spin == 600 Test_el6 —] > [— —(S)— %V3fe.W == 0x258 %V79.1 Test_el6 $Test_el6$ —][-—(R)-%V79.1 %v79.1

Abilitazione elettromandrino n.5

Abilitazione elettromandrino n.5

Abilitazione elettromandrino n.6

Abilitazione elettromandrino n.6

(1) %V85.0, %V503.2 : Start_difu, X_test_fora

25 Label:

Step:

Disabilitazione mandrini da test mdi

Gen_em_cn	Test_tas.B = 0	Test_ms8.B = 0	Test_ms11.B = 0	(1) T —	%V7d.B = 0
%V1e.0	%V79.B = 0x0	V7a.B = 0x0	V7b.B = 0x0		%V7d.B = 0x0
X_test_fora	%V7e.B = 0	%V7f.B = 0	$Test_m8.B = 0$	$Test_m16.B = 0$	$Test_m24.B = 0$
]/[Т —	т	Т	— Т —	(T)
%V503.2	%V7e.B = 0x0	V7f.B = 0x0	V80.B = 0x0	V81.B = 0x0	%V82.B = 0x0
		$Test_mo3.B = 0$	(2)	<pre>Test_difi.B = 0</pre>	Test_fo2.B = 0
		*V83.B = 0x0	Т —	*V85.B = 0x0	*V86.B = 0x0

(1) %V7c.B = 0x0 : Test_msox3.B = 0 (2) %V84.B = 0x0 : Test_dis90.B = 0

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Mem. per rotazione mandrini 1 da

Mem. per rotazione mandrini 2 da

(1) %V79.6, %V84.0, %V84.1, %V84.2 : Test_m30, Test_mo4, Test_mo5, Test_mo6

27 Label: Step: Rotazione mandrini da test mdi

 $X_{conv} == 1$ $V50_w != 0$ Test m8.B != 0 X test fora $Test_mt1$ ____]>[____ — 1 [— _____]>[____ ____]>[___ —(S)— %V503.2 %V401.B == 0x1 %V50.W != 0x0 %V80.B != 0x0 %V26.0 Test m16.B != 0 Test m30 ____]>[____ —][— %V79.6 %V81.B != 0x0 Test m24.B != 0 Test mo4 _____]>[____ — 1 [— %V82.B != 0x0 %V84.0 Test_mo3.B != 0 Test mo5 ____]>[____ _][_ %V83.B != 0x0 %V84.1 Test mo6 _][_ %V84.2

Mem. per rotazione mandrini 1 da

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28 Label:

Step:

X_test_fora]>[V50_w != 0	Test_ms8.B != 0	Test_mt2
%V503.2	%V401.B == 0x1	V50.W = 0x0	%V7a.B != 0x0	%V26.1
			Test_ms11.B != 0	
]>[%V7b.B != 0x0	
			Test_msox3.B != 0	
]>[]\ %V7c.B != 0x0	
				goto(END)
				(T)

Mem. per rotazione mandrini 2 da

29 Label: TEST_MT1 Step:

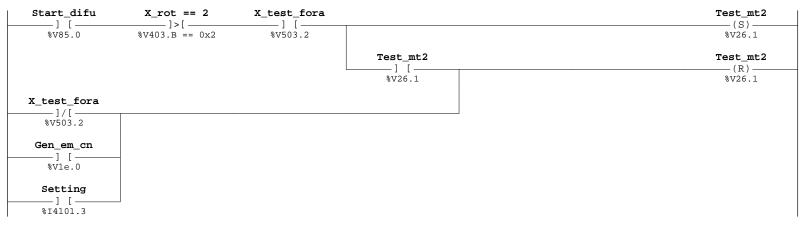
Rotazione mandrini da test mdi

Start_difu] [%V85.0	<pre>X_rot == 1</pre>	X_test_fora 		Test_mt1(S) %V26.0
			Test_mt1] [%V26.0	Test_mt1(R) %V26.0
X_test_fora]/[
Gen_em_cn][_			
Setting] [

Mem. per rotazione mandrini 1 da

Mem. per rotazione mandrini 1 da

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Mem. per rotazione mandrini 2 da

Mem. per rotazione mandrini 2 da

31 Label: END Step:

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Module: TEST_M.XLA		%SP6 (30)	Page	16

00 Label: M48.W = 0Step: Test_pgm App_setupa V211_2.4 $Index_6 = 0$ $M1518 = X_index$ $Test_pgm = 1$ —][— —R_T— — т —— — т —— — (T)— %V4034.0 %V211.4 M110a.W = 0x0 M1518.W = V5dc.W%M48.W = 0x1 App_setupb —][— %V4034.1 App_setupc __][_ %V4034.2 App_setupd —][— %V4034.3 Jog_icla — 1 [— %V4032.1 goto(END) — (T)-01 Label: RESET Step: Test_pgm M48.W = 1Reset byte piano/ventosa $Index_6 < 84$ (1) ___]>[___ -(T)-%M110a.W < 0x54 $Index_6 += 1$ —— (T)— M110a.W += 0x1goto(RESET) — (T)—

(1) V4500.B[M110a.W] = 0x0 : Piano10[Index_6] = 0

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Module: TEST_PV.XLA

TITRE

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02 Label: %M48.W Setup non programmato(999) o allarme PGM Step: Test pam = 1 Tab_pm[M1518] == 999 No_setup bit setup non programmato __]>[__ — () – %V4030.2 %V5000.L[%M1518.W] == 0x3e7 Test pam = 99 — (T)— M48.W = 0x63goto(END) —— (T)— Tab_pm[M1518] != 164 (1) (2) Alarm pgm tentativo di posizionare una ven ___() _ %V5000.L[%M1518.W] != 0xa4 %V4031.5 Test_pgm = 99 —— (T)— M48.W = 0x63goto(END) — (T)— (1) %V5000.L[%M1518.W] != 0xa8 : Tab_pm[M1518] != 168 (2) %V5000.L[%M1518.W] != 0xa7 Tab pm[M1518] != 167 Decodifica Area di Scambio 03 Label: Step: Test_pgm %M48.W = 1 $Tab_pm[M1518] == 167$ Index_remove = X_index Remove_pdl Start ciclo di parcheggio e rimo __]>[___ — т — —(S)-%V5000.L[%M1518.W] == 0xa7 V4038.W = V5dc.W%V4031.6 Tab_pm[M1518] == 168 Index_setup = X_index Setup_pdl start ciclo di setup — 1>f — — т — —(S)-%V5000.L[%M1518.W] == 0xa8 V402a.W = V5dc.W%V4030.1 Tab_pm[M1518] == 164 Index_verify = X_index Verify_pdl start ciclo di verifica — т – —(S)-%V5000.L[%M1518.W] == 0xa4 V4036.W = V5dc.W%V4030.5 $Test_pgm = 0$ — (T) — M48.W = 0x0goto(END) —— (T)—

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04 Label: END Step:

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Company:		NOM	10015	
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Module: TEST_PV.XLA		%SP217 (04)	Page	3

00 Label: Step: Blocco e sblocco utensile sbl Dentro_x Bloccaggio utensile %I4500.1 %V410.4 Sbl Fuori_x Sbloccaggio utensile — () — %I4500.1 %V410.5 01 Label: FINE Step: (1) -(T)— (2) -(T)-(1) V413.B = M7c.L : Selposto_x = Tr24_pos (2) %V414.W = %M5fc.L : Utin_x = %M5fc.L 02 Label: Step: (1) (1) V522.W = Rd22.W : Tool_x = Rd22.W

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Company:			NOM	TOOLL	,
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00 Label: Step:

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M38_1 M38_ok Mem. funzione tool room -(S)-%V626.0 %V8c.5 $Rich_{tr12} = E30124$ — (T) — %M98.L = %Rd70.L Graf_tr12 != 0 M38_ok Mem. funzione tool room __]>[__ —(R)-%M42.W != 0x0 %V8c.5 Graf_tr12 > 0 Soffio_tr12 Soffiatore ___]>[___ — () – %M42.W > 0x0 %Q5100.6 **01** Label: Step: Movimrntazione magazzino M156_1 Tool room Y+ posteriore Omag_post —(S)— %V69c.0 %Q5100.2 Tool room Y- anteriore Omag_ant — (R)— %Q5100.3 M157_1 Omag_ant Tool room Y- anteriore —][— —(S)-%V69d.0 %Q5100.3 Omag_post Tool room Y+ posteriore —(R)-

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Company:		NOM	1001	ПО
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%Q5100.2

00 Label:

Step:

02 Label: Step:

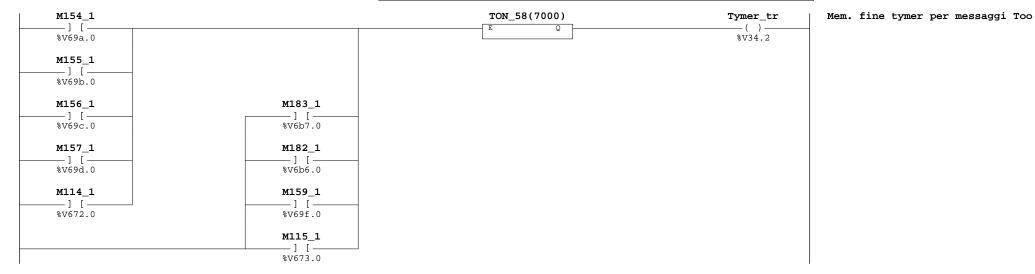
M154_1	Open_tron	Apertura protezione utensili tr1
	(S) %Q5100.5	
	Open_troff (R) %Q5100.4	Chiusura protezione utensili trl
	O_up_tr12 	Tool room up
	O_dw_tr12 (R) %Q5100.1	Tool room down

03 Label: Step:

M155_1	Open_troff	Chiusura protezione utensili tr1
\$v69b.0	(S) %Q5100.4	
	Open_tron (R) %Q5100.5	Apertura protezione utensili trl
	O_dw_tr12 (S)	Tool room down
	O_up_tr12 (R) %Q5100.0	Tool room up

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Company:		NOM	тоопа	•
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[T] TON_58(0x1b58) : TON_58(7000)

Author:		NUM TOOLS		.G
Company:		NOM	TOOL	ib
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Module: TR12_GES.XLA		%SP134 (04)	Page	3

```
Gen_em_cn
                                                                                                         Graf_tr12 = 0
        — ] [ —
                                                                                                            — (T)—
                                                                                                          %M42.W = 0x0
        %V1e.0
01 Label:
                  Step: Graf tr12 %M42.W = 0
    Graf_tr12 != 0
                                       TON_3a(600)
                                                                                                         Graf_tr12 = 0
        — 1> [ —
                                                                                                            — (T)—
     %M42.W != 0x0
                                                                                                          M42.W = 0x0
                                       TON_3b(200)
                                                                                                          Stop_r2_tr
                                                                                                                          Stop rapid 6 n.2 / Tool room pos
                                                                                                            — (R)-
                                                                                                           %Q4101.1
   [T] TON_3a(0x258) : TON_3a(600)
   [T] TON_3b(0xc8) : TON_3b(200)
02 Label:
                Step: Graf_tr12 %M42.W = 0
           (1)
                                                          V210_0
                                                                                       Rich_tr12 > 12
                                                                                                        Rich_tr12 = 1
                         Ps_f6
                                          X_{end}
                                                                             (2)
                         —][—
                                          — ] / [ —
                                                          —R_T—
                                                                                           ___]>[____
                                                                                                         ——— (T)——
                        %V202b.3
                                         %V503.0
                                                          %V210.0
                                                                                         %M98.L > 0xc
                                                                                                         %M98.L = 0x1
                                                                                                         Graf tr12 = 1
                                                                                                           —— (T)——
                                                                                                          M42.W = 0x1
        M16 1
                    Rich_tr12 != Tr12_pos
                                                                                                         Graf_tr12 = 1
        _][_
                      ____]>[___
                                                                                                           —— (T)—
                     %M98.L != %M9c.L
                                                                                                          M42.W = 0x1
        %V610.0
        M12 1
                                                                                                        Graf_tr12 = 50
        — ] [ —
                                                                                                            — (T)—
                                                                                                          M42.W = 0x32
        %V60c.0
                                                                                                          goto(END)
                                                                                                            — (T)—
   (1) %I4101.3, %I4001.3, %I4100.7 : Setting, Pul_um1, Pul_um2
   (2) M98.L = M9c.L + 0x1 : Rich_tr12 = Tr12_pos + 1
```

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Author:

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00 Label:

Step:

```
Step: Graf_tr12 %M42.W = 1
03 Label:
                                                                    Ricerca direzione di rotazione magazzino
   Rich_{tr12} - Tr12_{pos} > 0
                                    Rich_tr12 - Tr12_pos < 6
                                                                                                         Direz_r2_tr
                                                                                                                         Direzione rapid 6 n.2 / Tool roo
       ___]>[____
                                       ____]>[____
                                                                                                            —(S)-
   M98.L - M9c.L > 0x0
                                     M98.L - M9c.L < 0x6
                                                                                                           %04101.0
   Rich_tr12 - Tr12_pos < 0
                                    Tr12_pos - Rich_tr12 >= 6
     ____]>[ _____
                                     ____]>[____
   M98.L - M9c.L < 0x0
                                    %M9c.L - %M98.L >= 0x6
   Rich_tr12 - Tr12_pos > 0
                                    Rich_tr12 - Tr12_pos >= 6
                                                                                                         Direz_r2_tr
                                                                                                                         Direzione rapid 6 n.2 / Tool roo
     — (R)—
   M98.L - M9c.L > 0x0
                                    %M98.L - %M9c.L >= 0x6
                                                                                                           %04101.0
   Rich_tr12 - Tr12_pos < 0
                                     Tr12_pos - Rich_tr12 < 6
                                      _____]>[____
   %M98.L - %M9c.L < 0x0
                                    M9c.L - M98.L < 0x6
                      TON_3b(200)
                                                                                                        Graf_tr12 = 2
                                                                                                          —— (T)—
                                                                                                         M42.W = 0x2
                                                                                                          goto(END)
                                                                                                           —— (T)—
   [T] TON_3b(0xc8) : TON_3b(200)
04 Label:
                  Step: Graf_tr12 %M42.W = 2
                                                                                                         Start r2 tr
                                                                                                                         Start rapid 6 n.2 / Tool room po
                                                                                                           — (S)—
                                                                                                           %04101.2
      Clock tr12
                                                                                                        Graf tr12 = 3
       — (T)—
       %I5100.0
                                                                                                         M42.W = 0x3
                                                                                                          goto(END)
                                                                                                            — (T) —
```

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Module: TR12_POS.XLA		%SP133 (03)	Page	2

NIIM TOOLS

Author:

```
Step: Graf_tr12 %M42.W = 3
                                                                                                              Start_r2_tr
                                                                                                                              Start rapid 6 n.2 / Tool room po
                                                                                                                 —(R)-
                                                                                                                %04101.2
      Direz r2 tr
                                                                                                             Tr12_pos += 1
        — ] [ —
                                                                                                               —— (T)——
        %Q4101.0
                                                                                                              M9c.L += 0x1
      Direz_r2_tr
                                                                                                             Tr12_pos -= 1
        — (T)—
        %Q4101.0
                                                                                                              %M9c.L -= 0x1
06 Label:
                   Step: Graf_tr12 %M42.W = 3
                                                                               Verifica posto magazzino
     Tr12_pos == 0
                                                                                                             Tr12_pos = 12
        ___]>[___
                                                                                                                — (T) —
                                                                                                              %M9c.L = 0xc
      M9c.L == 0x0
     Tr12_pos == 13
                                                                                                             Tr12_pos = 1
      ____]>[____
                                                                                                               —— (T) ——
     %M9c.L == 0xd
                                                                                                              M9c.L = 0x1
                   Step: Graf_tr12 %M42.W = 3
07 Label:
                                                                             Controllo se raggiunto posto
    Tr12_pos != Rich_tr12
                                                                                                             Graf tr12 = 4
        ___ 1>[ ___
                                                                                                                — (T)—
    %M9c.L != %M98.L
                                                                                                              M42.W = 0x4
    Tr12_pos == Rich_tr12
                                                                                                             Graf_tr12 = 9
        — ] > [ —
                                                                                                                 —(T)—
    %M9c.L == %M98.L
                                                                                                              M42.W = 0x9
                                                                                                                   (1)
                                                                                                                 —(T)—
                                                                                                                   (2)
                                                                                                                 —(T)—
                                                                                                               goto(END)
                                                                                                                — (T)-
   (1) Q4101.B = Q4101.B \mid 0x2 : Out_41 = Out_41 | 2
   (2) write_q(0x4101, 0x1) : write_q(16641, 1)
```

Incremento memoria posto magazzino

Author:

05 Label:

08 Label: Step: Graf_tr12 %M42.W = 4

%M42.W = 0x
goto(END) (T)

09 Label: Step: **Graf_tr12** %M42.W = **5**

Clock_tr12 	Graf_tr12
\$15100.U	617112.W -
	goto(EN

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10 Label: Step: Graf_tr12 %M42.W = 6

Clock_tr12	Graf_tr12
]/[%I5100.0	(T)— %M42.W = 0
%1510U.U	%M42.W = U
	anto (FAT
	goto(END

11 Label: Step: Graf_tr12 %M42.W = 7

Clock_tr12] [Graf_tr12 = (T) (T) (*M42.W = 0)
%15100.0	61742.W - 02
	goto(END
	(T)

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Company:		NOM	тООП	5
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```
Direz_r2_tr
                                                                                                        Tr12_pos += 1
        —][—
                                                                                                          — (T)—
        %Q4101.0
                                                                                                        %M9c.L += 0x1
     Direz_r2_tr
                                                                                                        Tr12_pos -= 1
        — ] / [ —
                                                                                                           — (T)—
        %Q4101.0
                                                                                                        %M9c.L -= 0x1
13 Label: Step: Graf_tr12 %M42.W = 8
                                                                                                        Tr12_pos = 12
     Tr12_pos == 0
      ____]>[___
                                                                                                          —— (T)—
     %M9c.L == 0x0
                                                                                                         M9c.L = 0xc
    Tr12_pos == 13
                                                                                                        Tr12_pos = 1
      ____]>[___
                                                                                                          —— (T)——
    %M9c.L == 0xd
                                                                                                         M9c.L = 0x1
14 Label: Step: Graf_tr12 %M42.W = 8
   Tr12_pos != Rich_tr12
                                                                                                        Graf_tr12 = 4
        ___]>[__
                                                                                                           — (T)—
    %M9c.L != %M98.L
                                                                                                         M42.W = 0x4
   Tr12_pos == Rich_tr12
                                                                                                        Graf_tr12 = 9
     ____]>[____
                                                                                                          —— (T)——
    %M9c.L == %M98.L
                                                                                                         %M42.W = 0x9
                                                                                                              (1)
                                                                                                            —(T)—
                                                                                                              (2)
                                                                                                            -(T)-
                                                                                                          goto(END)
                                                                                                           — (T)—
   (1) %Q4101.B = %Q4101.B | 0x2 : Out_41 = Out_41 | 2
   (2) write_q(0x4101, 0x1) : write_q(16641, 1)
```

Author:		NUM TOOLS		r. c
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Module: TR12_POS.XLA		%SP133 (12)	Page	6

12 Label:

Step: $Graf_tr12$ %M42.W = 8

15 Label: Step: Graf_tr12 %M42.W = 9

%M42.W = 0x
%M42.W = 03
goto(END)
(T)

16 Label: Step: Graf_tr12 %M42.W = 10

Stop_r2_tr] [Clock_tr12	TON_3a(600)	### Graf_tr12 = 1 (T) *M42.W = 0xb
%Q4101.1	%I5100.0		\$M42.W = UXD
			goto(END)
			(T)

[T] $TON_3a(0x258)$: $TON_3a(600)$

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Company:			NOM	TOOL	5
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Posiz_tr12 $Graf_tr12 = 0$ —] [— — (T) — %I5100.1 %M42.W = 0x0 goto(END) — (T)-**18** Label: Step: Graf_tr12 %M42.W = 50 Ciclo taratura magazzino Start rapid 6 n.2 / Tool room po Start_r2_tr — (S) — %Q4101.2 Direz_r2_tr Direzione rapid 6 n.2 / Tool roo __(S)_ %Q4101.0 E40014 = 0— (T) — Wa38.L = 0x0Orig_tr12 $Graf_tr12 = 51$ —(T)— %15100.2 M42.W = 0x33goto(END) — (T) —

17 Label:

Step: **Graf_tr12** %M42.W = **11**

Author:

Company.				
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: TR12_POS.XLA		%SP133 (17)	Page	8
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NUM TOOLS

19 Label: Step: **Graf_tr12** %M42.W = **51** Clock_tr12 $Graf_tr12 = 52$ —][— *M42.W = 0x34 %I5100.0 goto(END) — (T) — 20 Label: Step: **Graf_tr12** %M42.W = **52** Start_r2_tr Start rapid 6 n.2 / Tool room po — (R) — %Q4101.2 Clock_tr12 $Graf_tr12 = 53$ —] / [— %I5100.0 goto(END) — (T) —

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21 Label: Step: Graf_tr12 %M42.W = 53

Clock_tr12	Graf_tr12 =
	(T)
%15100.0	8M42.W = 0x3
	goto(END)
	(T)

22 Label: Step: Graf_tr12 %M42.W = 54

Clock_tr12 	#M42.W = 0x
813100.0	0N12.W - VA
	goto(END)

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Company:		NOM	тоопр	
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23 Label: Step: Graf_tr12 %M42.W = 55 Clock_tr12 $Graf_tr12 = 56$ —] [— *M42.W = 0x38 %15100.0 goto(END) — (T) — **24** Label: Step: **Graf_tr12** %M42.W = **56** (1) -(T)— (2) -(T)-TON_3a(600) $Graf_tr12 = 57$ —— (T)—— M42.W = 0x39goto(END) — (T)— (1) $Q4101.B = Q4101.B \mid 0x2$: Out_41 = Out_41 | 2 (2) write_q(0x4101, 0x1) : write_q(16641, 1) [T] $TON_3a(0x258)$: $TON_3a(600)$ Author:

Addio:		NTTM	TOOL	g
Company:		NOM	1001	D
Project: 1040_78.mch	TITRE		Date	28-02-2018
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25 Label: Step: Graf_tr12 %M42.W = 57

Posiz_tr12	E40014 = 1
][(T)
	Tr12_pos = 1
	*M9c.L = 0x1
	Graf_tr12 =(T)
	M42.W = 0x0
	goto(END) (T)

26 Label: END Step:

Author:		NUM TOOLS		
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M38_1 M38_ok Mem. funzione tool room —(S)— %V8c.5 %V626.0 $Rich_{tr24} = E30124$ — (T) — %M78.L = %Rd70.L Graf_tr24 != 0 M38_ok Mem. funzione tool room ___]>[__ —(R)-%M44.W != 0x0 %V8c.5 Graf_tr24 > 0 R24_evair EV soffiatore pulizia ___]>[__ %M44.W > 0x0 %Q5300.3 R24 gestione portello aperto/chiuso **01** Label: Step: M154_1 EV apertura portello R24_spon —(S)-%V69a.0 %Q5300.4 R24_spoff EV chiusura portello — (R)— %Q5301.3 R24_evup Tool room posizione alto —(S)— %Q5301.4 R24_evdn Tool room posizione basso —(R)-%Q5301.5

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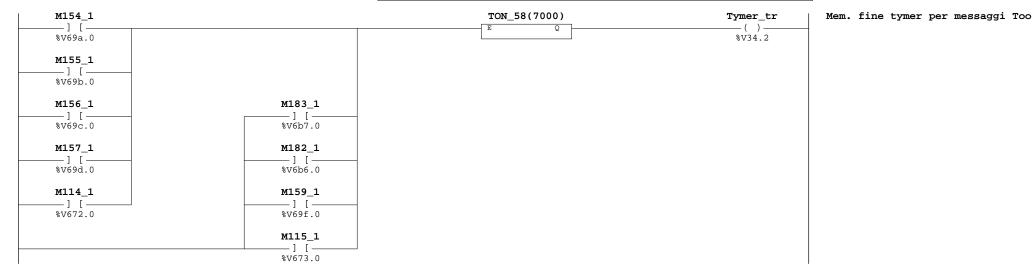
00 Label:

Step:

02 Label: Step: M155_1 R24_spoff EV chiusura portello ----(S)----%Q5301.3 %V69b.0 R24_spon EV apertura portello —(R)-%Q5300.4 R24_evdn Tool room posizione basso — (S)-%Q5301.5 Tool room posizione alto R24_evup — (R)-%Q5301.4 03 Label: Posizione R24 Y- Y+ Step: M156_1 R24_evout Tool - room posizione Y+ (poster —(S)-%V69c.0 %Q5300.0 R24_evin Tool - room posizione Y- (anteri — (R)-%Q5300.1 M157_1 R24_evin Tool - room posizione Y- (anteri —(S)-%V69d.0 %Q5300.1 R24_evout Tool - room posizione Y+ (poster — (R)— %Q5300.0

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Company:		INOM	1001	5
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Module: TR24_GES.XLA		%SP131 (02)	Page	2





[T] TON_58(0x1b58) : TON_58(7000)

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Company:		INOLI	10011	
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: TR24_GES.XLA		%SP131 (04)	Page	3

00 Label: Step:

01 Label: Step: **Graf_tr24** %M44.W = **0**

Start movimento

Scambio dati fine-corsa taratura

02 Label: Step: **Graf_tr24** %M44.W = **0**

(1)	V200_1 R_T	X_end]/[(2)	Rich_tr24 > 24	Rich_tr24 = 1
	%V200.1	%V503.0	1	%M78.L > 0x18	%M78.L = 0x1
					Graf_tr24 = 1 (T) %M44.W = 0x1
M38_ok][%V8c.5	M16_1] [%V610.0	Rich_tr24 != Tr24_pos]>[]>			Graf_tr24 = 1 (T) %M44.W = 0x1
X_test_magaz] [M12_1] [%V60c.0	R24_refok 			Graf_tr24 = 50 (T) %M44.W = 0x32
					goto(END) (T)

(1) %V202b.3, %I4101.3, %I4000.6, %I4001.3, %I4100.7 : Ps_f6, Setting, Emer_gen, Pul_um1, Pul_um2

(2) M78.L = M7c.L + 0x1 : Rich_tr24 = Tr24_pos + 1

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```
03 Label:
                   Step: Graf_tr24 %M44.W = 1
                                                                      Ricerca direzione di rotazione magazzino
                                                                                                                 (1)
                                                                                                               -(T)-
                                                                                                           Graf_tr24 = 2
                                                                                                              — (T) —
                                                                                                            M44.W = 0x2
                                                                                                             goto(END)
                                                                                                              — (T) —
   (1) V70.L = M78.L : N_r24 = Rich_{tr24}
04 Label:
                   Step: Graf_tr24 %M44.W = 2
                                                                                       Bit 5
      N_r24 > 15
                                                                                                                            Scambio dati 05
                                                                                                              R24_o5
       ____]>[___
                                                                                                               —(S)—
      %V70.L > 0xf
                                                                                                              %Q5301.2
                                                                                                       N_r24 = N_r24 - 16
                                                                                                              — (T)—
                                                                                                      V70.L = V70.L - 0x10
      N_r24 <= 15
                                                                                                              R24_o5
                                                                                                                            Scambio dati 05
        ___]>[___
                                                                                                               —(R)—
     %V70.L <= 0xf
                                                                                                              %Q5301.2
```

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Company:		NOM	1001	D GL
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Module: TR24_POS.XLA		%SP130 (05)	Page	3

		BIT 1	= 2	%M44.W	Step: Graf_tr24	abel:
 Scambio dat	R24_o1					N_r24 == 1
	(S) %Q5300.6			,		>[
Scambio dat	R24_o1					N_r24 == 0
	(R) ————————————————————————————————————					V70.L == 0x0
	.02500.0					0.70.11 == 0.80
	Graf_tr24 = 3 (T)					
	M44.W = 0x3					
	CAO = W.FFM6					
3	goto(END)	Start movimentagione	- 2	9м <i>аа</i> ы	Sten: Craf tr24	ahal ·
3	goto(END) (T)	Start movimentazione	= 3	%M44.W	Step: Graf_tr24	abel:
3	goto(END)(T)	Start movimentazione	= 3	%M44.W	Step: Graf_tr24	abel:
3	goto(END)(T)	Start movimentazione	= 3	%M44.W	Step: Graf_tr24	abel:
3	goto(END)(T)	Start movimentazione	= 3	%M44.W	Step: Graf_tr24	abel:
3	goto(END)(T)	Start movimentazione	= 3	%M44.W	Step: Graf_tr24	abel:
3	goto(END)(T)	Start movimentazione	= 3	%M44.W	Step: Graf_tr24	abel:
3	goto(END)(T)	Start movimentazione	= 3	%M44.W	Step: Graf_tr24	abel:
3	goto(END)(T)	Start movimentazione	= 3	%M44.W	Step: Graf_tr24	abel:
Start movin	goto(END) (T) R24_start (S) %Q5300.2	Start movimentazione	= 3	%M44.W	Step: Graf_tr24	R24_inpos
Start movim	R24_start	Start movimentazione	= 3	%M44.W	Step: Graf_tr24	
Start movim	goto(END) (T) R24_start (S) %Q5300.2	Start movimentazione	= 3	%M44.W	Step: Graf_tr24	R24_inpos

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Company:		MOM	TOOL	5
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```
10 Label:
                    Step: Graf_tr24 %M44.W = 4
                                                                                 Attesa fine posizionamento
                                                                                                                   R24_start
                                                                                                                                   Start movimento
                                                                                                                   ---(R)----
%Q5300.2
       R24_inpos
                                                                                                                Graf_tr24 = 5
         —][—
                                                                                                                    —(T)—
        %15300.3
                                                                                                                  M44.W = 0x5
                                                                                                                   goto(END)
                                                                                                                    — (T) —
11 Label:
                    Step: Graf_tr24 %M44.W
                                                  = 5
                                                                                     Fine posizionamento
                                                                                                                       (1)
                                                                                                                      (T)-
                                                                                                                 Graf_tr24 = 0
                                                                                                                  \frac{-}{8M44.W} = 0x0
                                                                                                                   goto(END)
                                                                                                                   —— (Т) —
   (1) %M7c.L = %M78.L : Tr24_pos = Rich_tr24
```

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Module: TR24_POS.XLA		%SP130 (10)	Page	5

12 Label:	Step: Graf_tr24	%M44.W	= 50	Ciclo taratura tool-room 24 posizioni	
				R24enrif	Scambio dati fine-corsa taratura
				%Q5300.5	
				R24_o1 (R)	Scambio dati 01
				%Q5300.6	
				R24_o2	Scambio dati O2
				(R) %Q5300.7	
				R24_o3 (R)	Scambio dati O3
				%Q5301.0	
				R24_o4 ———(R)	Scambio dati O4
				%Q5301.1	
				R24_o5 (R)	Scambio dati O5
				%Q5301.2	
13 Label:	Step: Graf_tr24	%M44.W	= 50		
				%Wa38.L = 0x0	
				Graf_tr24 = 51 (T)	
				%M44.W = 0x33	
				goto(END)(T)	
I					1

Author:		NUM	тоот	ַ <u>.</u> כ
Company:		NOM	1001	10
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Module: TR24_POS.XLA		%SP130 (12)	Page	6

l			R24_start	Start moviment
			(S)	
R24_inpos			Graf_tr24 = 52 	
%15300.3			%M44.W = 0x34	
Label:	Step: Graf_tr24	%M44.W = 52	goto(END)(T)	Start movimen
Label:	Step: Graf_tr24	%M44.W = 52		
Label:	Step: Graf_tr24	%M44.W = 52	(T)————————————————————————————————————	Start moviment
Label:	Step: Graf_tr24	%M44.W = 52	R24_start (R)	Start movimen
Label:	Step: Graf_tr24	%M44.W = 52	R24_start (R)	Start movimen
Label:	Step: Graf_tr24	%M44.W = 52	R24_start (R)	Start movimen
Label:	Step: Graf_tr24	%M44.W = 52	R24_start (R)	Start movimen
Label:	Step: Graf_tr24	%M44.W = 52	R24_start (R)	Start movimen
Label:	Step: Graf_tr24	%M44.W = 52	R24_start (R)	Start moviment
R24_refok		%M44.W = 52	R24_start (R) (R) %Q5300.2	Start moviment
		%M44.W = 52	R24_start (R) %Q5300.2	Start moviment

Author:		NUM	т∩∩т	. כי
Company:		NOM	1001	10
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Module: TR24_POS.XLA		%SP130 (14)	Page	7

16 Label: Step: Graf_tr24 %M44.W = 53

R24enrif
(R)
%Q5300.5
E40014 = 1

%Wa38.L = 0x1
Tr24_pos = 0
(T)
MC.L = 0x0
$Graf_{tr24} = 0$
(T) %M44.W = 0x0
OXO - W.FFMe
goto(END)

17 Label: END Step:

Author:		NUM TOOLS		1
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Module: TR24_POS.XLA		%SP130 (16)	Page	8

Scambio dati fine-corsa taratura

```
M162_1
                                                                                                               goto(SCRIVI)
         — ] [ —
                                                                                                                  — (T) —
         %V6a2.0
        M163_1
                                                                                                                 goto(VER)
         _][_
                                                                                                                 —— (T) —
         %V6a3.0
                                                                                                                                Mem. sblocco funzione M162
                                                                                                                 Res_m162
                                                                                                                  — (R) –
                                                                                                                  %V34.0
                                                                                                                 Res_m163
                                                                                                                                Mem. sblocco funzione M163
                                                                                                                  — (R)—
                                                                                                                  %V34.1
                                                                                                                 goto(END)
                                                                                                                  — (T) —
01 Label: SCRIVI
                  Step:
                                                                                 Aggiorna Posti utensile
      E30121 > 0
                       E30121 < 30
                                                                                                                     (1)
                          ___]>[___
         — 1>f —
      %Rd64.L > 0x0
                       %Rd64.L < 0x1e
                                         E30120 == 0
                                                                                                                     (2)
                                          ____]>[___
                                         Rd60.L == 0x0
                                         E30120 == 1
                                                                                                                     (3)
                                          —— ] > [ ——
                                                                                                                    ·(T)-
                                         %Rd60.L == 0x1
   (1) %M11.W = %Rd64.L * 0x4 : Indice_tr = E30121 * 4
   (2) M5fc.L[M11.W] = 0x0 : M5fc.L[Indice_tr] = 0
   (3) %M5fc.L[%M11.W] = %Rd68.L : %M5fc.L[Indice_tr] = E30122
```

Author:		NITIM	TOOL	d
Company:		NOM	тООП	
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: TR_WRITE.XLA		%SP132 (00)	Page	1

00 Label:

Step:

02 Label: Step: Aggiorna Elettromandrini E30121 == 1000 E30120 == 0M5f8.L = 0M5fc.L = 0___]>[___ ___]>[__ — т — — (T)— %Rd64.L == 0x3e8 %Rd60.L == 0x0 M5f8.L = 0x0M5fc.L = 0x0E30120 == 1(1) (2) ___]>[___ —— (T) — %Rd60.L == 0x1 (1) %M5f8.L = %Rd6c.L : %M5f8.L = E30123 : M5fc.L = E30122(2) %M5fc.L = %Rd68.L 03 Label: Step: Res_m162 Mem. sblocco funzione M162 — (S)— %V34.0 goto(END) —(T)-04 Label: VER Step: (1) -(T)-E40013 = 0— (T)— %Wa34.L = 0x0(1) %M11.W = %Rd64.L * 0x4 : Indice_tr = E30121 * 4 Author:

TITRE

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Company:

Project: 1040_78.mch

Module: TR_WRITE.XLA

%SP132 (02) Page

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NUM TOOLS

Date

05 Label: Step:

E40013 == 0	%M5f8.L[Indice_tr] == Outil1	E40013 = 1	
%Wa34.L == 0x0]>[(T)- %Wa34.L = 0x1	
		E40013 = 2	
		%Wa34.L = 0x2	
		Res_m163	Mem. sblocco funzione M163
		(S)	mem. sbrocco runzrone mres
		%V34.1	
		goto(END) (T)	
		(1)	

06 Label: END Step:

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Step:

Contatore per CN pronto

E_cnpret] [Cont_cnx >= 20 	Cnpret_x ()_ %V511.5	CN Pronto (0=no 1=si)
Cont_cnx <= 20 		Cont_cnx += 1 (T) %V23.B += 0x1	
		sp(4) 	
		sp(100) (T) sp(0x64)	

Lub_aut	sp(23)
\$M802.4	(T) sp(0x17)
	sp(25) (F) sp(0x19)
E30023 != 0	M_lub = E30023
]>[%Ra5c.L != 0x0	(T) %M8.W = %Ra5c.L
M_lub == 0]>[%M8.W == 0x0	M_lub = 180 (T) %M8.W = 0xb4

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Step:

sp(16)	Nesting	sp(19)	sp(21)
sp(0x10)	%M800.6	sp(0x13)	sp(0x15)
	Nesting	Puffer sp(20)	sp(22)
]/[- %M800.6		(T)sp(0x16)
	Nesting		sp(18)
	%M800.6		(T)sp(0x12)
	Puffer		sp(125)
	<u> </u>		(T) sp(0x7d)
Nesting			sp(126)
]/[(T) sp(0x7e)

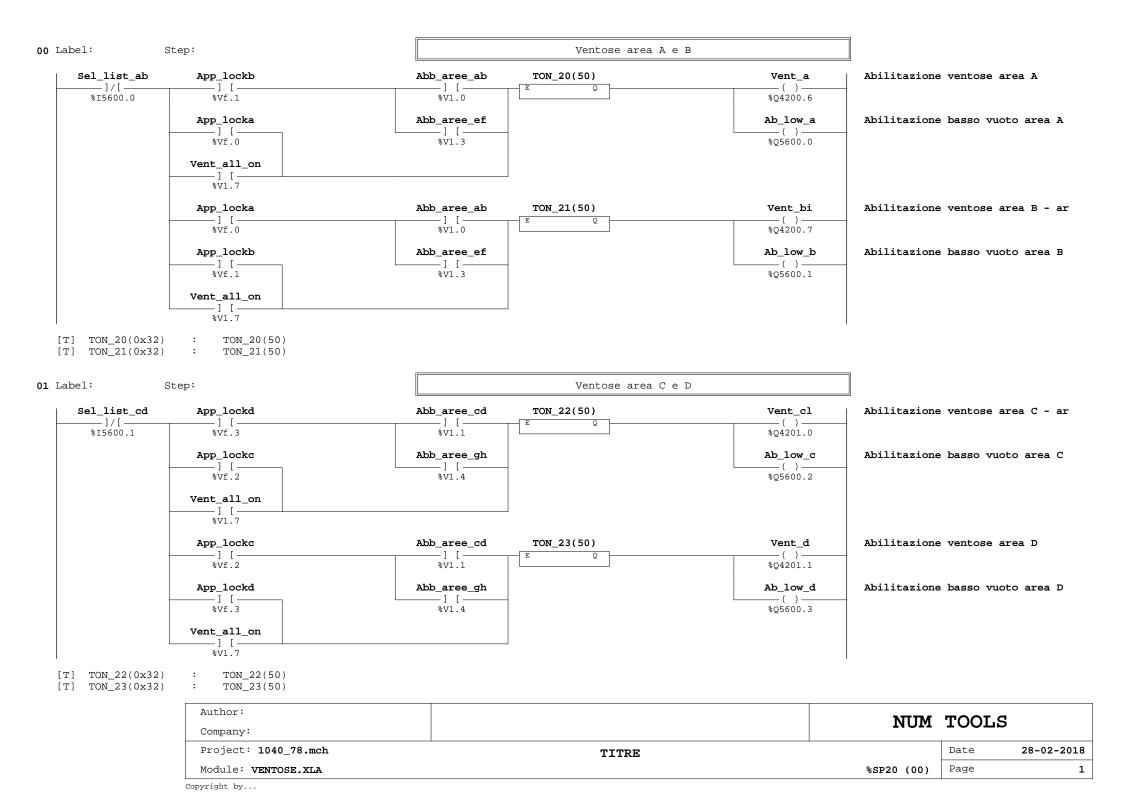
Author:		NUM	TOOT	. C
Company:		NOM	1001	D
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: TS2.XLA		%TS2 (00)	Page	1

	sp(45)	sp(46)
	sp(0x2d)	sp(0x2e)
X_ellab		sp(51)
		(T) ————————————————————————————————————

Author:		NTIM	TOOLS	ţ
Company:		11011	10011	
Project: 1040_78.mch	TITRE		Date	28-02-2018
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	sp(10)
Xil_ini_ok == 1]>[%V504.W == 0x1	sp(1) — (T)— sp(0x1)
40504.W == UXI	sp(0x1) sp(6)
	sp(12)
	tfstart(0) (T) tfstart(0x0)

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Module: TS4.XLA		%TS4 (00)	Page	1



00 Label: Step:	Visualizza messaggi	
Rich_raz_pan] [Msg_2	PROTEZIONE TERMICA MOTORI
%V21.0	%V351.0	
	Msg_3 (R)	PRESSIONE ARIA INSUFFICENTE
	%V352.0	
	Msg_54	ALLARME SONDA TERMICA EM5
	\$V385.0	
	Msg_55	ALLARME SONDA TERMICA EM6
	\(\begin{array}{c} (R) \\ \\$V386.0 \end{array}	
	Msg_56	ALLARME SONDA TERMICA ELCU
	(R)	
	Msg_57	ALLARME SONDA TERMICA EM1
	*V388.0]
01 Label: Step:	Visualizza messaggi	
Rich_raz_pan	Msg_58	ALLARME SONDA TERMICA EM2
	(R) %v389.0	
	Msg_59 ———(R)	ALLARME SONDA TERMICA EM3
	%V38a.0	
	Msg_60 ————(R)	ALLARME SONDA TERMICA EM4
	%V38b.0	
	Msg_77	ELETTROMANDRINO SENZA UTENSILE
	%V39c.0	
	Msg_80 ————(R)	ATTESA ORIENTAMENTO UTENSILE
	%V39f.0	
	Msg_137	ERRORE TASTATURA
	*V3008.0	

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02 Label: Step: Visualizza messaggi

Rich_raz_pan	Msg_141	RAPID 1
\$V21.0	*V300c.0	
	Msg_142	RAPID 2
	*V300d.0	
	Msg_149	Esecuzione simulata non possibil
	*V3014.0	
	Msg_159	ANOMALIA INVERTER 10%
	\(\begin{align*} \(\text{R} \)	
Rich_raz_pan	Msg_94	PEZZO NON BLOCCATO
%V21.0	- (R) - %V3ad.0	
X_ventose	Msg_95	RICHIESTO START SENZA PROGRAMMA
\[\] \[\] \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	\(R) %V3ae.0	

Rich_raz_pan	Msg_178	Presenza errori motori PDL area
%V21.0	%V3031.0	
	Msg_179	Presenza errori motori PDL area
	(R)	
	Msg_180	Presenza errori motori PDL area
	(R) %V3033.0	
	Msg_181	Presenza errori motori PDL area
	(R) %V3034.0	

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04 Label: Step:

Rich_raz_pan	Msg_62 (R)	ATTESA PROTEZIONI MAG. APERTA (s
%V21.0	%V38d.0	
	Msg_154	TOOL-ROOM NON IN POSIZIONE
	(R)— %V3019.0	
	Msg_76	ANOMALIA CAMBIO UTENSILE
	(R)— %V39b.0	
	Msg_156	ATTESA TOOL-ROOM BASSA
	(R)— %V301b.0	

05 Label: Step: Visualizza messaggi

Drv_ok_dc	Conf_r10_el1	E20022	Msg_1
%I4000.4	%V102.0	%Wf.6	*V350.0
	Conf_r10_el2] [%V103.0	E20023 	
	Conf_r10_el3		
	E20007] [
	E20008][

FAULT DRIVE ASSI DI SETUP

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06 Label: Step:	Visualizza messaggi	
Emer_ter	Msg_2	PROTEZIONE TERMICA MOTORI
%I4000.7	*V351.0	
Emer_ar	Msg_3 (S)	PRESSIONE ARIA INSUFFICENTE
%14201.0	%V352.0	
Gen_em_cn] [Msg_4	EMERGENZA MACCHINA
%Vle.0	%V353.0	
#Re21.0	Msg_5 () %V354.0	FAULT DRIVE ASSI BRUSHLESS
A1 alarm	*V30#.U	
] [%Re23.0		
A2_alarm] [
07 Label: Step:	Visualizza messaggi	
A0_svon	Msg_6	FAULT DRIVE ASSE X
%Re21.3	*V355.0	
A1_svon]/[Msg_7 ()	FAULT DRIVE ASSE Y
%Re23.3	%V356.0	
A2_svon	Msg_8	FAULT DRIVE ASSE Z
%Re25.3 A7_svon	%V357.0 Msg_133	FAULT DRIVE ASSE B
	*V3004.0	TAGET DATAE ADDE D

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FAULT DRIVE ASSE C

Msg_16

___()___ %V35f.0

A8_svon

___]/[___ %Re31.3

Step:

Tymer_tr	M114_1	Msg_23	ATTESA UTENSILE SBLOCCATO (rapid
%V34.2	%V672.0	- () - %V366.0	
	M115_1	Msg_24	ATTESA UTENSILE BLOCCATO (rapid)
	%V673.0	%v367.0	
	M182_1	Msg_116	POSTO SEL. NON VUOTO (random)
	%V6b6.0	%v3c3.0	
	M183_1	Msg_117	POSTO SEL. SENZA UTENSILE (rando
	%V6b7.0	%v3c4.0	
	M156_1	Msg_157	ATTESA TOOL-ROOM AVANTI (Y-)
	%V69c.0	%V301c.0	
	M157_1	Msg_158	ATTESA TOOL-ROOM DIETRO (Y+)
	%v69d.0	%V301d.0	

09 Label:

Step:

Tymer_tr	M159_1	E30037 == 24	R24_fcspo		Msg_62	ATTESA PROTEZIONI MAG. APERTA (s
%V34.2	%V69f.0	%Rb14.L == 0x18	%I5300.1		%V38d.0	
			Graf_tr24 != 0		Msg_154	TOOL-ROOM NON IN POSIZIONE
			%M44.W != 0x0		*V3019.0	
			Speed_0		Msg_76	ANOMALIA CAMBIO UTENSILE
]/[%I4500.3		(S)	
			R24_fcup	Evolution	Msg_156	ATTESA TOOL-ROOM BASSA
]/[———— %I5301.0] [%M803.1	(S) %V301b.0	

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Step:

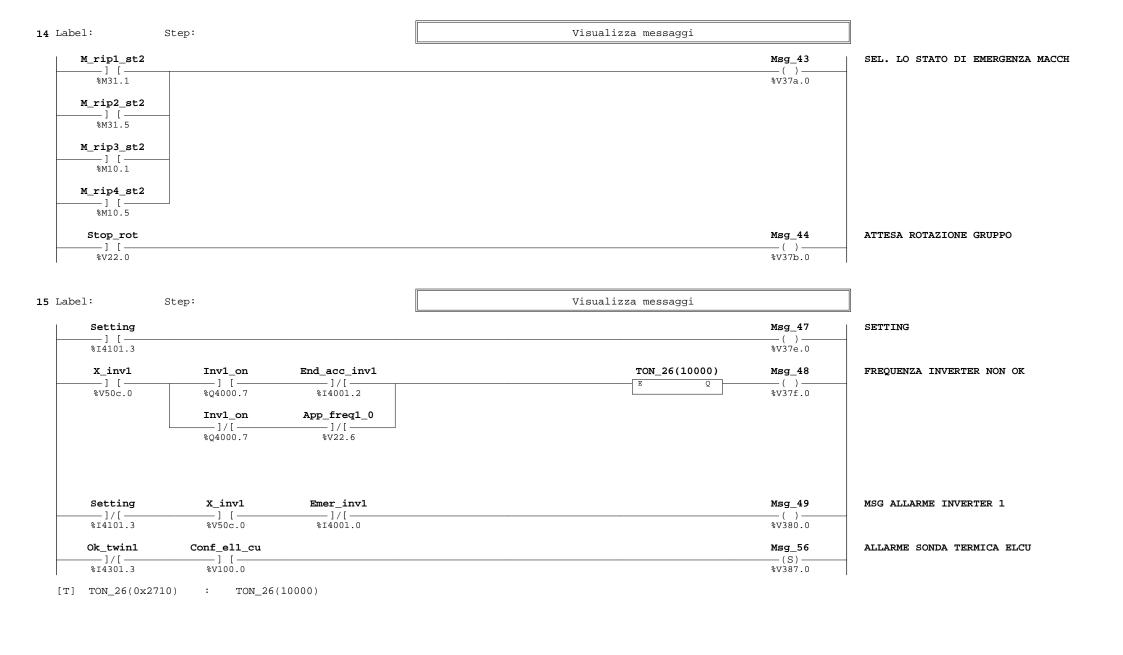
Tymer_tr] [M159_1][%V69f.0	E30037 == 12 	Open_tr]/[%I5101.1		(S (S \$V380) —	ATTESA PROTEZIONI MAG. APERTA (s
			Graf_tr12 != 0		Msg _(S (S %V301) —	TOOL-ROOM NON IN POSIZIONE
			Posiz_tr12]/[%15100.1				
			Speed_0]/[Msg_ (S &v391) —	ANOMALIA CAMBIO UTENSILE
			I_up_tr12]/[Evolution	Msg_ (S %V301) —	ATTESA TOOL-ROOM BASSA

Diag_30 	Msg_30 () %V36d.0	CICLO DI C.U. IN CORSO (rapid)
Diag_31 	Msg_31 () %V36e.0	TARATURA MAGAZZINO (rapid)
E10009	Msg_32 () %V36f.0	TARATURA ASSI
Diag_33	Msg_33 () %v370.0	ATTESA PULSANTE DI START
Diag_34	Msg_34 ()	TARATURA ASSI EFFETTUATA

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12 Label:	Step:	Visualizza messaggi		
E10014			Msg_35	ERRORE TARATURA ASSE X
%R10.6			%V372.0	
E10015			Msg_36 ()	ERRORE TARATURA ASSE Y
E10016			Msg_37	ERRORE TARATURA ASSE Z
] [%Rf.0			*V374.0	
E10017			Msg_38	ERRORE TARATURA ASSE A
%Rf.1			%V375.0	
13 Label:	Step:	Visualizza messaggi		
E_oper			Msg_40	MACCHINA IN STANDBY
] [*V377.0	
E_bat			Msg_41	BATTERIA SCARICA
%R14.1			%V378.0	
M_rip1_st4			Msg_42 ()	RIAGGANCIO EL. IN CORSO
%M31.3			%V379.0	
M_rip2_st4] [
M_rip3_st4				
] [————————————————————————————————————				
M_rip4_st4				
%M10.7				

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Label: S	Step:	Visualizza messaggi	
Lub_aut	Lub_iniz	Msg_73	LUBRIFICAZIONE IN CORSO
%M802.4	%V7.4	() %v398.0	
	Err_lub	Msg_74	ERRORE LUBRIFICAZIONE
		%V399.0	
	Lubr_gr	Msg_75	POMPA LUBRIFICANTE VUOTA
]/[- %I4201.1	() %v39a.0	
El1_sut		Msg_77	ELETTROMANDRINO SENZA UTENSILE
%V3b.0		(S)_ %V39c.0	
Forat_npos	Gen_em_cn TON_27(5000)	Msg_80	ATTESA ORIENTAMENTO UTENSILE
V44.2]/[E Q %V1e.0	(S) %V39f.0	
Modcour == 1	E_prog E_cycle	Msg_91 () %V3aa.0	< START > PROSSIMO BLOCCO DI PRO
Enab_cuff		Msg_79	CUFFIA ELETTROMANDRINO SOLLEVATA
*V28.2		()_ %v39e.0	
Ps_noedit		Msg_92	NO EDIT
%V202b.6		%v3ab.0	
Ps_nomode		Msg_93	NO MODE
%V202b.7		%V3ac.0	

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18 Label: Step: Visualizza messaggi

App_msg94_2 Start_a X_pgm_a Vacu_a (1) _]/[-%I4201.3 %I4200.4 %Vld.3 %V531.0 D_bdf (2) Sel_list_ab X_pgm_e _]/[_ _][_ _]/[_ _][_ %V531.4 %M803.3 %I5600.0 X pgm e D_bdf Vacu_e —][— —] [— —] / [– %V531.4 %M803.3 %I4b00.0 Start_b X_pgm_b Vacu_bi —][— _][_ —] / [– %I4201.4 %V531.1 %I4200.5 Sel_list_ab D_bdf (3) X_pgm_f _][_ —] / [— —]/[— _][_ %V531.5 %M803.3 %I5600.0 X_pgm_f D_bdf Vacu_f —] [— —][— —]/[— %V531.5 %M803.3 %I4b00.1

(1) %I4100.2, %R11.5 : Sel_morab, E10005

(2) %V18.0, %V18.1, %I4200.4 : %V18.0, %V18.1, Vacu_a

(3) %V18.2, %V18.3, %I4200.5 : %V18.2, %V18.3, Vacu_bi

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Company:		11011		
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App. messaggio 94

19 Label: Step: Visualizza messaggi Start_c X pgm c Vacu_cl App_msg94_1 App. messaggio 94 (1) —] / [– %V1d.4 %I4201.5 %V531.2 %I4200.6 D bdf Sel_list_cd X_pgm_g (2) _]/[_ _]/[_ — 1 [— —][— %V531.6 %M803.3 %I5600.1 X pgm g D_bdf Vacu_g —] / [-—] [— %V531.6 %M803.3 %I4b00.2 Start_d X_pgm_d Vacu_d __1 [_ _1 [_ — 1 / [*-*%I4201.6 %V531.3 %I4200.7 D_bdf (3) X pgm h Sel_list_cd _][_ —]/[— -] / [-_ 1 [_ %V531.7 %M803.3 %I5600.1 X_pgm_h D_bdf Vacu_h _][— _][_ —] / [– %V531.7 %M803.3 %I4b00.3 (1) %I4100.3, %R11.5 : Sel_morcd, E10005 (2) %V18.4, %V18.5, %I4200.6 : %V18.4, %V18.5, Vacu_cl (3) %V18.6, %V18.7, %I4200.7 : %V18.6, %V18.7, Vacu_d 20 Label: Step: Visualizza messaggi Sel_morab Start_a Okpres_ab App_msg94 App. messaggio 94 —][— _][_ —]/[— — () – %I4100.2 %I4201.3 %I5000.4 %V1d.5 Start b _][— %I4201.4

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Start c

_ 1 [_

%I4201.5

Start_d —] [— %I4201.6 Okpres cd

]/[

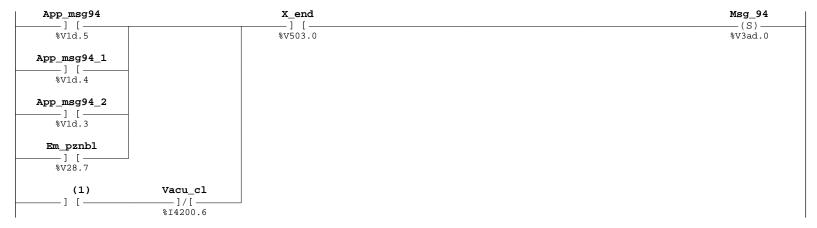
%I5000.5

Sel morcd

—][-

%I4100.3

21 Label: Step: Visualizza messaggi



(1) %I4201.3, %V531.0, %I4100.6, %M800.6 : Start_a, X_pgm_a, Sel_rw, Nesting

22 Label: Step: Visualizza messaggi

Start_a	(1)	X_end	Msg_95	RICHIESTO START SENZA PROGRAMMA
%I4201.3		%V503.0	%V3ae.0	
Start_b] [%14201.4	X_pgm_b, X_pgm_f]/[
Start_c] [X_pgm_c, X_pgm_g]/[
Start_d] [X_pgm_d, X_pgm_h 			
Ps_pot1 < 2 	Ps_pot1 > -1 	E	Msg_96 	ZERO FEED_RATE
App_msg129			Msg_129 () %V3000.0	ESEGUIRE TARATURA PIANI E VENTOS

(1) %V531.0, %V531.4 : X_pgm_a, X_pgm_e

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PEZZO NON BLOCCATO

23 Label: Step:	Visualizza messaggi	
E30127 == 2 	Msg_137 (S) (S) *V3008.0	ERRORE TASTATURA
Ps_error] [TIME OUT SERIALE
%V202c.0 X_modo_sim Xil_modo != 4 Evolution	%V3009.0 Msg_149	Esecuzione simulata non possibil
*V503.1	%V3014.0	
24 Label: Step:	Visualizza messaggi	
Sel_morab	Msg_150	LAVORAZIONE CON MORSETTI AREA AB
%I4100.2	%V3015.0	
Sel_morcd	Msg_151()	LAVORAZIONE CON MORSETTI AREA CD
%I4100.3	%V3016.0	
Ab_pn	Msg_152 ()	MORSETTI AREA AB ALTI PNEUMATICA
%I5001.6 Cd_pn	%V3017.0 Msg_153	MORSETTI AREA CD ALTI PNEUMATICA
Cd_pii 	MSG_153 	MORSEIII AREA CD ALII PNEUMAIICA
App_msg_167	Msg_167	FARE RIFERIMENTO CUFFIA
	*V3026.0	

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Msg_168

---()----%V3027.0 FAULT MOTORE CUFFIA

App_msg_168

__] [_ %V1f.0

Step:

Anom_cu				Msg_154	TOOL-ROOM NON IN POSIZIONE
%V28.0				*V3019.0	
Tymer_cf	M24_1			Msg_172	ATTESA PISTONE CUFFIA BASSO
%V43.7	%V618.0			%V302b.0	
	M25_1			Msg_29	ATTESA CUFFIA POSIZIONE DI C.U.
	%V619.0			%v36c.0	
	M26_1			Msg_173	ATTESA PISTONE CUFFIA ALTO
	%V61a.0			%v302c.0	
El_11kw	Pres_el1, El_1_on			Msg_160	PRESSOSTATO REFRIGERATORE EL.1
%M800.4	%I4000.0, %Q4100.2			%V301f.0	
					an and an analysis of the state
26 Label:	Step:		Visualizz	a messaggi	
Piano_tv	Sel_man_aut	V_bl_ab		Msg_162	VENTOSE NON BLOCCATE SU PIANO AB
%M800.5	%I4101.4	%I4000.2		*V3021.0	
		v_bl_b			
		%I5201.6			
		V_bl_cd		Msg_163	VENTOSE NON BLOCCATE SU PIANO CD
		%14000.3		%V3022.0	
		V_bl_c			
	_	%I5201.7			

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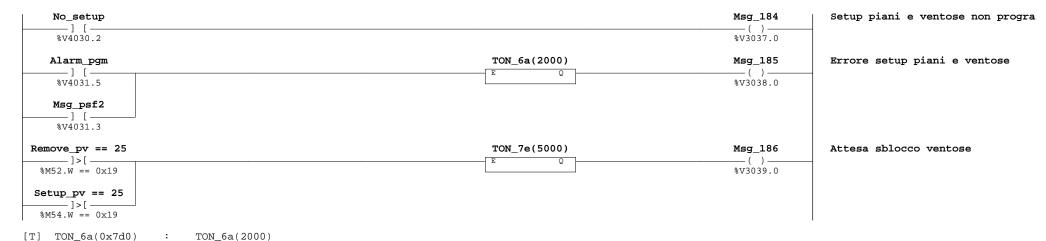
Step:

App_msg164	Msg_164	CICLO AREA AB NON OK
%V47.6	*V3023.0	
App_msg165	Msg_165	CICLO AREA CD NON OK
%V47.7	%V3024.0	
X_bltypea	Msg_178	Presenza errori motori PDL area
%V1151.3	(S)- %V3031.0	
X_bltypeb	Msg_179	Presenza errori motori PDL area
%V1151.4	(S) *V3032.0	
X_bltypec	Msg_180	Presenza errori motori PDL area
%V1151.5	(S) - %V3033.0	
X_bltyped	Msg_181	Presenza errori motori PDL area
\$V1151.6	(S)- %V3034.0	

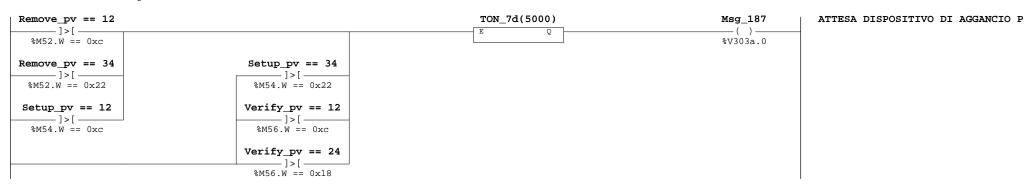
Remove	Msg_182	Premere F5 per conferma rimozion
%V4033.4	*V3035.0	
Remove_pv > 0	Msg_183	Setup piani e ventose in corso
]>[%M52.W > 0x0	(S) %V3036.0	
Setup_pv > 0		
Verify_pv > 0		
Raz_icla	Msg_183	Setup piani e ventose in corso
%V4031.2	(R)— %V3036.0	

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Step:



30 Label: Step:



[T] $TON_7d(0x1388)$: $TON_7d(5000)$

[T] $TON_7e(0x1388)$: $TON_7e(5000)$

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31 Label: Step:

Time_agg	Cil_pdl_ab	Pdl_ab
%V4033.6	%Q5201.0	%I5201.0
App_msg129] [Pistab_no_ok] [
App_msg_f5] [Cil_pdl_cd] [%Q5201.1	Pdl_cd]/[%15201.1
	Pistcd_no_ok] [

Time_agg	Cil_pdl_1	Vent_pdl_1	Msg_189	ATTESA AGGANCIO VENTOSA - PIANO
%V4033.6	%Q5200.0	%I5200.0	%V303c.0	
App_msg129	Pist1_no_ok			
%V4033.5	%V4560.0			
App_msg_f5	Cil_pdl_2	Vent_pd1_2	Msg_190	ATTESA AGGANCIO VENTOSA - PIANO
%V4562.2	%Q5200.1	%15200.1	%V303d.0	
	Pist2_no_ok			
	%V4560.1			
	Cil_pdl_3	Vent_pd1_3	Msg_191	ATTESA AGGANCIO VENTOSA - PIANO
	%Q5200.2	%I5200.2	%V303e.0	
	Pist3_no_ok			
	%V4560.2			

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Company:		NOM	1001	5
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Step:

Time_agg	Cil_pdl_4	Vent_pdl_4	Msg_192	ATTESA AGGANCIO VENTOSA - PIANO
%V4033.6	%Q5200.3	%I5200.3	%V303f.0	
App_msg129	Pist4_no_ok			
%V4033.5	%V4560.3			
App_msg_f5	Cil_pdl_5	Vent_pdl_5	Msg_193	ATTESA AGGANCIO VENTOSA - PIANO
%V4562.2	%Q5200.4	%I5200.4	%V3040.0	
	Pist5_no_ok			
	%V4560.4			
	Cil_pdl_6	Vent_pdl_6	Msg_194	ATTESA AGGANCIO VENTOSA - PIANO
	%Q5200.5	%I5200.5	*V3041.0	
	Pist6_no_ok			
	%V4560.5			

Time_agg	Cil_pdl_7	Vent_pdl_7	Msg_195	ATTESA AGGANCIO VENTOSA - PIANO
%V4033.6	%Q5200.6	%I5200.6	%V3042.0	
App_msg129	Pist7_no_ok			
%V4033.5	%V4560.6			
App_msg_f5	Cil_pdl_8	Vent_pdl_8	Msg_196	ATTESA AGGANCIO VENTOSA - PIANO
%V4562.2	%Q5200.7	%I5200.7	%V3043.0	
	Pist8_no_ok			
	%V4560.7			
	Cil_pdl_9	Vent_pdl_9	Msg_197	ATTESA AGGANCIO VENTOSA - PIANO
	%Q5400.0	%15400.0	%V3044.0	
	Pist9_no_ok			
	%V4561.0			

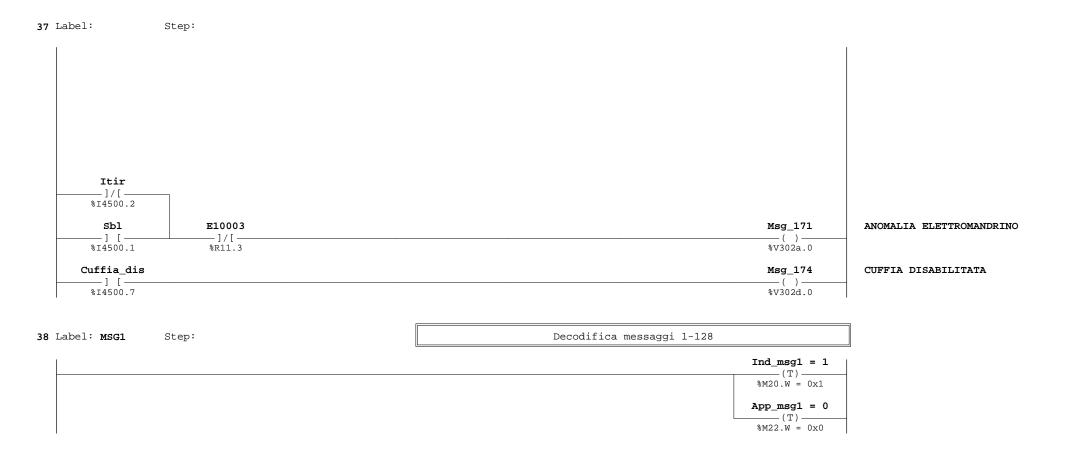
Author:		NITIM	TOOLS	
Company:		NOM	тоопр	
Project: 1040_78.mch	TITRE		Date	28-02-2018
Module: VIS_MS~1.XLA		%SP30 (33)	Page	18

Step:

Time_agg	Cil_pdl_10	Vent_pdl_10	Msg_198	ATTESA AGGANCIO VENTOSA - PIANO
%V4033.6	%Q5400.1	%I5400.1	%V3045.0	
App_msg129	Pist10_no_ok			
%V4033.5	%V4561.1			
App_msg_f5	Cil_pdl_11	Vent_pdl_11	Msg_199	ATTESA AGGANCIO VENTOSA - PIANO
%V4562.2	%Q5400.2	%I5400.2	%V3046.0	
	Pist11_no_ok			
	%V4561.2			
	Cil_pdl_12	Vent_pdl_12	Msg_200	ATTESA AGGANCIO VENTOSA - PIANO
	%Q5400.3	%I5400.3	%V3047.0	
	Pist12_no_ok			
	%V4561.3			

App_msg_f5	Msg_201	PREMERE F5 PER CONFERMA AGGANCIO
\$V4562.2	%V3048.0	
Inib_start_a] [%V3054.0	
Inib_start_b] [%v3055.0 ()	
Inib_start_c] [%V3056.0	
Inib_start_d] [%V3057.0 ()	

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Module: VIS_MS~1.XLA		%SP30 (37)	Page	20

```
Msg_prec[Ind_msg1]
                                                                                                                        (1)
                                                                                                                      -(T)-
     %V34f.0[%M20.W]
    Msg_prec1[Ind_msg1]
        — ] [ —
    %V2fff.0[%M20.W]
                                                                                                                 Ind_msg1 += 1
                                                                                                                    — (T)—
                                                                                                                  %M20.W += 0x1
    Ind_msg1 <= 128</pre>
                                                                                                                   goto(LOOP)
      ____]>[__
                                                                                                                    —— (T) —
    %M20.W <= 0x80
   (1) M22.W = M22.W + M20.W : App_msg1 = App_msg1 + Ind_msg1
40 Label: COPY_MSG Step:
   App msg1 == App msg2
                                                                                                                   goto(FINE)
         _]>[_
                                                                                                                      —(T)-
     %M22.W == %M24.W
                                                                                                                        (1)
                                                                                                                      -(T)—
    Lastplcala_x == 0
                                          TON 28(200)
                                                                                                                        (2)
      ____]>[___
                                                                                                                      -(T)—
     %V520.B == 0x0
    Lastplcala x == 1
                                          TON 29(200)
                                                                                                                        (3)
      ____]>[___
                                                                                                                      -(T)-
    %V520.B == 0x1
   (1) M24.W = M22.W : App_msg2 = App_msg1
   (2) V520.B = 0x1 : Lastplcala_x = 1
   (3) %V520.B = 0x0 : Lastplcala_x = 0
[T] TON_28(0xc8) : TON_28(200)
   [T] TON_29(0xc8) : TON_29(200)
41 Label: FINE
                    Step:
```

Author:		NTTM	TOO	T C
Company:		NUM TOOLS		по
Project: 1040_78.mch	TITRE		Date	28-02-2018
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Decodifica messaggi 129-256

39 Label: LOOP

Step:

00 Label: Step:	Visualizza messaggi	
Rich_raz_pan	Msg_2	PROTEZIONE TERMICA MOTORI
%V21.0	%v351.0	
	Msg_3 (R)	PRESSIONE ARIA INSUFFICENTE
	%V352.0	
	Msg_54 ———— (R)—————	ALLARME SONDA TERMICA EM5
	*V385.0	
	Msg_55	ALLARME SONDA TERMICA EM6
	%V386.0	
	Msg_56	ALLARME SONDA TERMICA ELCU
	%V387.0	
	Msg_57 (R)	ALLARME SONDA TERMICA EM1
	%V388.0	
01 Label: Step:	Visualizza messaggi	
Rich_raz_pan	Msg_58	ALLARME SONDA TERMICA EM2
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	*V389.0	
	Msg_59	ALLARME SONDA TERMICA EM3
	Msg_60	ALLARME SONDA TERMICA EM4
	(R)	
	Msg_77	ELETTROMANDRINO SENZA UTENSILE
	*V39c.0	
	Msg_80 (R)	ATTESA ORIENTAMENTO UTENSILE
	*V39f.0	
	Msg_137	ERRORE TASTATURA
	%V3008.0	

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02 Label: Step: Visualizza messaggi

Rich_raz_pan	Msg_141	RAPID 1
\$V21.0	*V300c.0	
	Msg_142	RAPID 2
	*V300d.0	
	Msg_149	Esecuzione simulata non possibil
	*V3014.0	
	Msg_159	ANOMALIA INVERTER 10%
	\(\begin{align*} \(\text{R} \)	
Rich_raz_pan	Msg_94	PEZZO NON BLOCCATO
%V21.0	- (R) - %V3ad.0	
X_ventose	Msg_95	RICHIESTO START SENZA PROGRAMMA
\[\] \[\] \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	\(R) %V3ae.0	

Rich_raz_pan	Msg_178 (R)	Presenza errori motori PDL area
%V21.0	*V3031.0	
	Msg_179	Presenza errori motori PDL area
	(R) %V3032.0	
	Msg_180	Presenza errori motori PDL area
	(R) %V3033.0	
	Msg_181	Presenza errori motori PDL area
	(R) %V3034.0	

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04 Label: Step:

Rich_raz_pan	Msg_62	ATTESA PROTEZIONI MAG. APERTA (s
%V21.0	(R)	
	Msg_154	TOOL-ROOM NON IN POSIZIONE
	%V3019.0	
	Msg_76	ANOMALIA CAMBIO UTENSILE
	*V39b.0	
	Msg_156	ATTESA TOOL-ROOM BASSA
	%V301b.0	1

05 Label: Step: Visualizza messaggi

Drv_ok_dc	Conf_r10_el1	E20022	Msg_1
%I4000.4	%V102.0]/[%Wf.6	
	Conf_r10_e12	E20023	
	Conf_r10_e13		
	E20007		
	E20008		

FAULT DRIVE ASSI DI SETUP

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Module: VIS MSG.XLA		%SP30 (04)	Page	3

06 Label:	Step:	Visualizza messaggi	
Emer_ter		Msg_2 (S)	PROTEZIONE TERMICA MOTORI
%I4000.7		\$V351.0	
Emer_ar		Msg_3 (S)	PRESSIONE ARIA INSUFFICENTE
%I4201.0		%V352.0	
Gen_em_cn		Msg_4	EMERGENZA MACCHINA
%Vle.0		%v353.0	
A0_alarm		Msg_5	FAULT DRIVE ASSI BRUSHLESS
%Re21.0		%v354.0	
A1_alarm			
%Re23.0			
A2_alarm			
%Re25.0			l
07 Label:	Step:	Visualizza messaggi	
A0_svon		Msg_6	FAULT DRIVE ASSE X
%Re21.3		%v355.0	
A1_svon		Msg_7	FAULT DRIVE ASSE Y
%Re23.3		%v356.0	
A2_svon		Msg_8	FAULT DRIVE ASSE Z
%Re25.3		%V357.0	
A7_svon		Msg_133	FAULT DRIVE ASSE B
%Re2f.3		*V3004.0	

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Module: VIS_MSG.XLA		%SP30 (06)	Page	4

FAULT DRIVE ASSE C

Msg_16

___()___ %V35f.0

A8_svon

___]/[___ %Re31.3

Step:

Tymer_tr	M114_1	Msg_23	ATTESA UTENSILE SBLOCCATO (rapid
%V34.2	%V672.0	- () - %V366.0	
	M115_1	Msg_24	ATTESA UTENSILE BLOCCATO (rapid)
	%V673.0	%v367.0	
	M182_1	Msg_116	POSTO SEL. NON VUOTO (random)
	%V6b6.0	%v3c3.0	
	M183_1	Msg_117	POSTO SEL. SENZA UTENSILE (rando
	%V6b7.0	%v3c4.0	
	M156_1	Msg_157	ATTESA TOOL-ROOM AVANTI (Y-)
	%V69c.0	%V301c.0	
	M157_1	Msg_158	ATTESA TOOL-ROOM DIETRO (Y+)
	%v69d.0	%V301d.0	

09 Label:

Step:

Tymer_tr	M159_1	E30037 == 24	R24_fcspo		Msg_62	ATTESA PROTEZIONI MAG. APERTA (s
%V34.2	%V69f.0	%Rb14.L == 0x18	%I5300.1		*V38d.0	
			Graf_tr24 != 0		Msg_154	TOOL-ROOM NON IN POSIZIONE
			%M44.W != 0x0		%V3019.0	
			% v999.0		Msg_76	ANOMALIA CAMBIO UTENSILE
]/[(S) %V39b.0	
			R24_fcup	Evolution	Msg_156	ATTESA TOOL-ROOM BASSA
			%I5301.0] [%M803.1	(S)	

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Step:

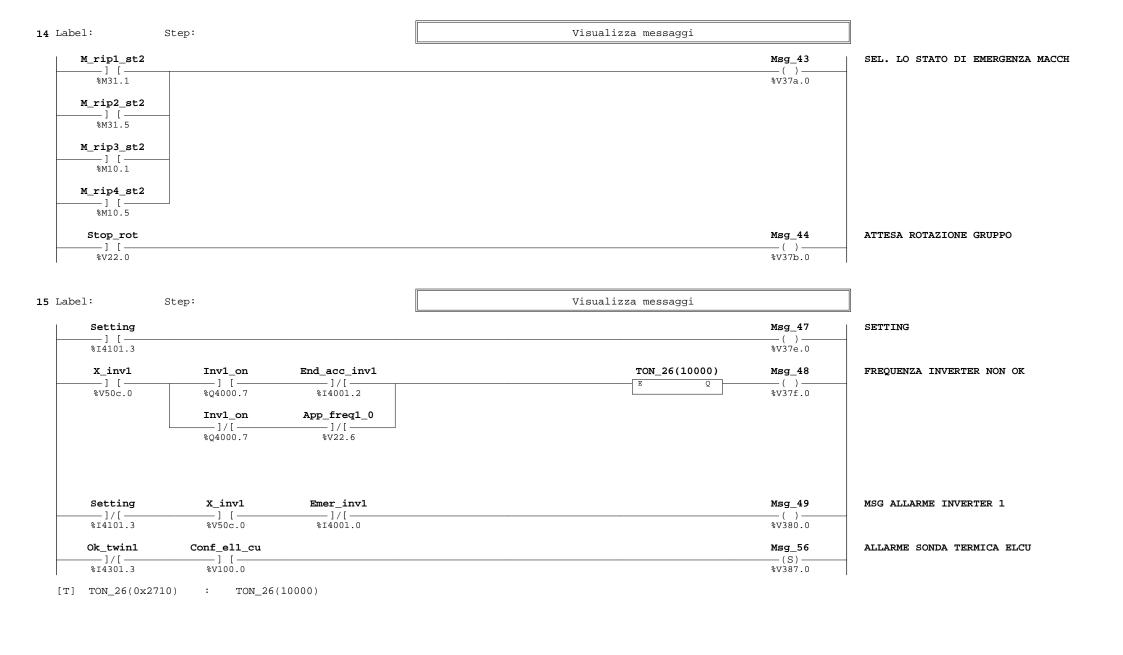
Tymer_tr [M159_1 	E30037 == 12 	Open_tr]/[Msg_62 (S) %V38d.0	ATTESA PROTEZIONI MAG. APERTA (s
			Graf_tr12 != 0 		Msg_154 (S)- %V3019.0	TOOL-ROOM NON IN POSIZIONE
			Posiz_tr12]/[
			%v999.0]/[Msg_76 (S)	ANOMALIA CAMBIO UTENSILE
			I_up_tr12]/[%15100.3	Evolution] [Msg_156 (S) %V301b.0	ATTESA TOOL-ROOM BASSA

Diag_30	Msg_30	CICLO DI C.U. IN CORSO (rapid)
%V2e.3	%V36d.0	
Diag_31] [%V2e.4	Msg_31 () %V36e.0	TARATURA MAGAZZINO (rapid)
E10009	Msg_32	TARATURA ASSI
%R10.1	%V36f.0	
Diag_33	Msg_33	ATTESA PULSANTE DI START
%V2e.6	%V370.0	
Diag_34	Msg_34	TARATURA ASSI EFFETTUATA
%V2e.7	%V371.0	

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12 Label:	Step:	Visualizza messaggi		
E10014			Msg_35	ERRORE TARATURA ASSE X
%R10.6			%V372.0	
E10015			Msg_36	ERRORE TARATURA ASSE Y
%R10.7			%V373.0	
E10016			Msg_37	ERRORE TARATURA ASSE Z
%Rf.0			%V374.0	
E10017			Msg_38	ERRORE TARATURA ASSE A
%Rf.1			%V375.0	7
13 Label:	Step:	Visualizza messaggi		
E_oper			Msg_40	MACCHINA IN STANDBY
%R3.7			%V377.0	
E_bat			Msg_41	BATTERIA SCARICA
%R14.1			%V378.0	
M_rip1_st4			Msg_42	RIAGGANCIO EL. IN CORSO
%M31.3			%V379.0	
M_rip2_st4				
%M31.7				
M_rip3_st4				
%M10.3				
M_rip4_st4				
%M10.7	1			

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abel: S	tep:	Visualizza	messaggi	
Lub_aut	Lub_iniz		Msg_73	LUBRIFICAZIONE IN CORSO
%M802.4	%V7.4		%V398.0	
	Err_lub		Msg_74	ERRORE LUBRIFICAZIONE
	*V7.7		%V399.0	
	Lubr_gr		Msg_75	POMPA LUBRIFICANTE VUOTA
·	%I4201.1		%V39a.0	
El1_sut			Msg_77	ELETTROMANDRINO SENZA UTENSILE
*V3b.0			(S) %V39c.0	
Forat_npos	Gen_em_cn TON_27(5000		Msg_80	ATTESA ORIENTAMENTO UTENSILE
] [%V44.2]/[2	(S) %V39f.0	
abel: S		Visualizza		CTART > DROGGIMO PLOCCO DI DRO
abel: S Modcour == 1]>[%R16.B == 0x1 Ab_aut_seq		Visualizza		< START > PROSSIMO BLOCCO DI PRO
abel: S Modcour == 1	tep:	Visualizza	Msg_91 ()	< START > PROSSIMO BLOCCO DI PRO
abel: S Modcour == 1]>[%R16.B == 0x1 Ab_aut_seq] [%V2a.4 Enab_cuff	tep:	Visualizza	Msg_91 () %V3aa.0	<pre>< START > PROSSIMO BLOCCO DI PRO CUFFIA ELETTROMANDRINO SOLLEVATA</pre>
abel: S Modcour == 1]>[%R16.B == 0x1 Ab_aut_seq] [%V2a.4	tep:	Visualizza	Msg_91 () %V3aa.0	
abel: S Modcour == 1] > [%R16.B == 0x1 Ab_aut_seq] [%V2a.4 Enab_cuff] [%V28.2 Ps_noedit	tep:	Visualizza	Msg_91 ()_ %V3aa.0 Msg_79 ()_ %V39e.0	
abel: S Modcour == 1] > [tep:	Visualizza	Msg_91 () %V3aa.0 Msg_79 () %V39e.0	CUFFIA ELETTROMANDRINO SOLLEVATA
abel: S Modcour == 1]>[%R16.B == 0x1 Ab_aut_seq] [%V2a.4 Enab_cuff] [%V28.2 Ps_noedit	tep:	Visualizza	Msg_91() %V3aa.0 Msg_79() %V39e.0	CUFFIA ELETTROMANDRINO SOLLEVATA

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Company:		NOM	1001	20
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18 Label: Step: Visualizza messaggi

App_msg94_2 Start_a X_pgm_a Vacu_a (1) _]/[-%I4201.3 %I4200.4 %Vld.3 %V531.0 D_bdf (2) Sel_list_ab X_pgm_e _]/[_ _][_ _]/[_ _][_ %V531.4 %M803.3 %I5600.0 X pgm e D_bdf Vacu_e —][— —] [— —] / [– %V531.4 %M803.3 %I4b00.0 Start_b X_pgm_b Vacu_bi —][— _][_ —] / [– %I4201.4 %V531.1 %I4200.5 Sel_list_ab D_bdf (3) X_pgm_f _][_ —] / [— —]/[— _][_ %V531.5 %M803.3 %I5600.0 X_pgm_f D_bdf Vacu_f —] [— —][— —]/[— %V531.5 %M803.3 %I4b00.1

(1) %I4100.2, %R11.5 : Sel_morab, E10005

(2) %V18.0, %V18.1, %I4200.4 : %V18.0, %V18.1, Vacu_a

(3) %V18.2, %V18.3, %I4200.5 : %V18.2, %V18.3, Vacu_bi

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Company:		11011	1001.	
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App. messaggio 94

19 Label: Step: Visualizza messaggi Start_c X pgm c Vacu_cl App_msg94_1 App. messaggio 94 (1) -]/[-—] / [– %V1d.4 %I4201.5 %V531.2 %I4200.6 D bdf Sel_list_cd X_pgm_g (2) _]/[_ -]/[-— 1 [— —] [— %V531.6 %M803.3 %I5600.1 X pgm g D_bdf Vacu_g —] / [-—] [— %V531.6 %M803.3 %I4b00.2 Start_d X_pgm_d Vacu_d __1 [_ _1 [_ — 1 / [*-*%I4201.6 %V531.3 %I4200.7 D_bdf (3) X pgm h Sel_list_cd —][— —]/[— -] / [-_ 1 [_ %V531.7 %M803.3 %I5600.1 X_pgm_h D_bdf Vacu_h _][— _][_ —] / [– %V531.7 %M803.3 %I4b00.3 (1) %I4100.3, %R11.5 : Sel_morcd, E10005 (2) %V18.4, %V18.5, %I4200.6 : %V18.4, %V18.5, Vacu_cl (3) %V18.6, %V18.7, %I4200.7 : %V18.6, %V18.7, Vacu_d 20 Label: Step: Visualizza messaggi Sel_morab Start_a Okpres_ab App_msg94 App. messaggio 94 —][— _][_ —]/[— — () – %I4100.2 %I4201.3 %I5000.4 %V1d.5 Start b _][— %I4201.4

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Start c

-1 [—

%I4201.5

Start_d —] [— %I4201.6 Okpres cd

]/[

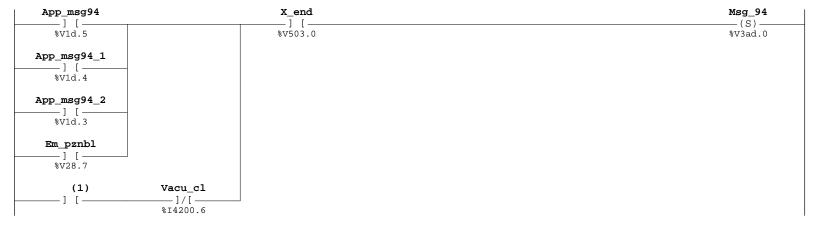
%I5000.5

Sel morcd

][

%I4100.3

21 Label: Step: Visualizza messaggi



(1) %I4201.3, %V531.0, %I4100.6, %M800.6 : Start_a, X_pgm_a, Sel_rw, Nesting

22 Label: Step: Visualizza messaggi

Start_a (1) X end Msg_95 RICHIESTO START SENZA PROGRAMMA —][— -]/[--(S)-%I4201.3 %V503.0 %V3ae.0 Start b X_pgm_b, X_pgm_f —] / [— %V531.1, %V531.5 %I4201.4 Start c X_pgm_c, X_pgm_g —] / [— %I4201.5 %V531.2, %V531.6 Start d X_pgm_d, X_pgm_h —] [— —] / [— %I4201.6 %V531.3, %V531.7 $Ps_pot1 < 2$ $Ps_pot1 > -1$ Msg_96 ZERO FEED_RATE ___]>[___ ___]>[__ %V202e.B > 0xffffffff %V3af.0 %V202e.B < 0x2 ESEGUIRE TARATURA PIANI E VENTOS App_msg129 Msg_129 —][— — () — %V4033.5 %V3000.0

(1) %V531.0, %V531.4 : X_pgm_a, X_pgm_e

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PEZZO NON BLOCCATO

23 Label: Step:	Visualizza messaggi	
E30127 == 2]>[Msg_137 	ERRORE TASTATURA
%Rd7c.L == 0x2	%V3008.0	
Ps_error	Msg_138	TIME OUT SERIALE
%V202c.0	%V3009.0	
<pre>X_modo_sim Xil_modo != 4 Evolution] []>[]/[</pre>	Msg_149	Esecuzione simulata non possibil
%V503.1 %V506.W != 0x4 %M803.1	%V3014.0	
24 Label: Step:	Visualizza messaggi	
Sel_morab	Msg_150	LAVORAZIONE CON MORSETTI AREA AB
	()_ %V3015.0	
Sel_morcd	Msg_151	LAVORAZIONE CON MORSETTI AREA CD
] [()	
%14100.3	%V3016.0	
Ab_pn	Msg_152	MORSETTI AREA AB ALTI PNEUMATICA
%15001.6	()	
Cd_pn	Msg_153	MORSETTI AREA CD ALTI PNEUMATICA
*15001.7	*V3018.0	
App msg 167	Msg_167	FARE RIFERIMENTO CUFFIA
] [(
%V1f.1	%V3026.0	

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Company:		NOM	тООП	
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Msg_168

%V3027.0

FAULT MOTORE CUFFIA

App_msg_168

__] [_ %V1f.0

Step:

Anom_cu		Msg_154	TOOL-ROOM NON IN POSIZIONE
%V28.0		%V3019.0	
Tymer_cf M24_1		Msg_172 ()	ATTESA PISTONE CUFFIA BASSO
%V43.7 %V618.0		%V302b.0	
M25_1		Msg_29	ATTESA CUFFIA POSIZIONE DI C.U.
*V619.0		%V36c.0	
M26_1		Msg_173	ATTESA PISTONE CUFFIA ALTO
*V61a.0		%V302c.0	
El_11kw Pres_el1, El_1_on		Msg_160	PRESSOSTATO REFRIGERATORE EL.1
%M800.4 %I4000.0, %Q4100.2		%V301f.0	
26 Label: Step:	Vi	sualizza messaggi	
	_bl_ab	Msg_162	VENTOSE NON BLOCCATE SU PIANO AB
	_]/[:I4000.2	*V3021.0	
	V_b1_b		
	7_b1_cd	Msg_163	VENTOSE NON BLOCCATE SU PIANO CD
	_]/[I4000.3	%V3022.0	
	V_b1_c		
,			

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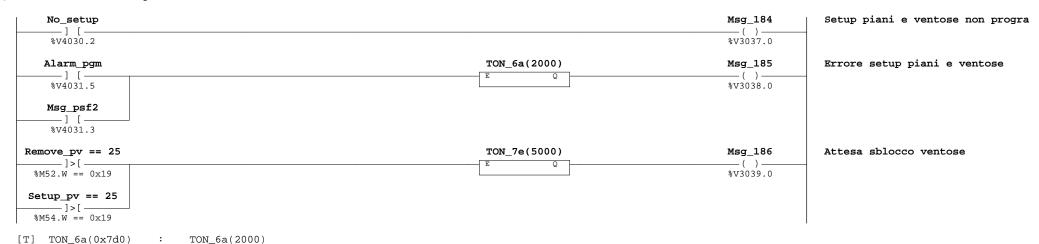
Step:

App_msg164	Msg_164	CICLO AREA AB NON OK
%V47.6	*V3023.0	
App_msg165	Msg_165	CICLO AREA CD NON OK
%V47.7	%V3024.0	
X_bltypea	Msg_178 — (S)	Presenza errori motori PDL area
%V1151.3	*V3031.0	
X_bltypeb	Msg_179 (S)	Presenza errori motori PDL area
%V1151.4	%V3032.0	
X_bltypec	Msg_180 — (S)	Presenza errori motori PDL area
%V1151.5	%V3033.0	
X_bltyped	Msg_181 — (S)	Presenza errori motori PDL area
%V1151.6	%V3034.0	

Remove	Msg_182	Premere F5 per conferma rimozion
*V4033.4	*V3035.0	
Remove_pv > 0	Msg_183	Setup piani e ventose in corso
]>[- %M52.W > 0x0	(S) %v3036.0	
Setup_pv > 0		
%M54.W > 0x0		
Verify_pv > 0		
%M56.W > 0x0		
Raz_icla	Msg_183	Setup piani e ventose in corso
%V4031.2	%V3036.0	

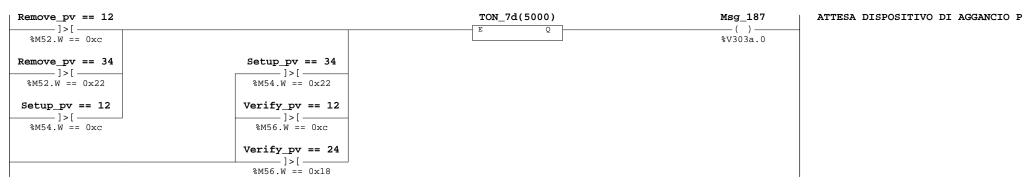
Author:		NUM	т∩∩т	r a
Company:		NOM	1001	15
Project: 1040_78.mch	TITRE		Date	28-02-2018
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Step:



[T] $TON_7e(0x1388)$: $TON_7e(5000)$

30 Label: Step:



[T] $TON_7d(0x1388)$: $TON_7d(5000)$

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Company:		MOM	тооп.	5
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31 Label: Step:

Time_agg	Cil_pdl_ab	Pdl_ab	Msg_188 ATTESA AGGANCIO PIANI
%V4033.6	%Q5201.0	%I5201.0	%V303b.0
App_msg129] [Pistab_no_ok] [] [
App_msg_f5] [Cil_pdl_cd] [] [Pdl_cd]/[%I5201.1	
	Pistcd_no_ok] [%V4561.5		

Time_agg	Cil_pdl_1	Vent_pdl_1	Msg_189	ATTESA AGGANCIO VENTOSA - PIANO
%V4033.6	%Q5200.0	%I5200.0	%V303c.0	
App_msg129	Pist1_no_ok			
%V4033.5	%V4560.0			
App_msg_f5	Cil_pdl_2	Vent_pd1_2	Msg_190	ATTESA AGGANCIO VENTOSA - PIANO
%V4562.2	%Q5200.1	%15200.1	%V303d.0	
	Pist2_no_ok			
	%V4560.1			
	Cil_pdl_3	Vent_pd1_3	Msg_191	ATTESA AGGANCIO VENTOSA - PIANO
	%Q5200.2	%I5200.2	%V303e.0	
	Pist3_no_ok			
	%V4560.2			

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Step:

Time_agg	Cil_pdl_4	Vent_pdl_4	Msg_192	ATTESA AGGANCIO VENTOSA - PIANO
%V4033.6	%Q5200.3	%I5200.3	%V303f.0	
App_msg129	Pist4_no_ok			
%V4033.5	%V4560.3			
App_msg_f5	Cil_pdl_5	Vent_pdl_5	Msg_193	ATTESA AGGANCIO VENTOSA - PIANO
%V4562.2	%Q5200.4	%I5200.4	%V3040.0	
	Pist5_no_ok			
	%V4560.4			
	Cil_pdl_6	Vent_pdl_6	Msg_194	ATTESA AGGANCIO VENTOSA - PIANO
	%Q5200.5	%I5200.5	%V3041.0	
	Pist6_no_ok			
	%V4560.5			

Time_agg	Cil_pdl_7	Vent_pdl_7	Msg_195	ATTESA AGGANCIO VENTOSA - PIANO
%V4033.6	%Q5200.6	%I5200.6	%V3042.0	
App_msg129	Pist7_no_ok			
%V4033.5	%V4560.6			
App_msg_f5	Cil_pdl_8	Vent_pdl_8	Msg_196	ATTESA AGGANCIO VENTOSA - PIANO
%V4562.2	%Q5200.7	%I5200.7	%V3043.0	
	Pist8_no_ok			
	%V4560.7			
	Cil_pdl_9	Vent_pdl_9	Msg_197	ATTESA AGGANCIO VENTOSA - PIANO
	%Q5400.0	%15400.0	%V3044.0	
	Pist9_no_ok			
	%V4561.0			

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Step:

Time_agg	Cil_pdl_10	Vent_pdl_10	Msg_198	ATTESA AGGANCIO VENTOSA - PIANO
%V4033.6	%Q5400.1	%I5400.1	%V3045.0	
App_msg129	Pist10_no_ok			
%V4033.5	%V4561.1			
App_msg_f5	Cil_pdl_11	Vent_pdl_11	Msg_199	ATTESA AGGANCIO VENTOSA - PIANO
%V4562.2	%Q5400.2	%I5400.2	%V3046.0	
	Pist11_no_ok			
	%V4561.2			
	Cil_pdl_12	Vent_pdl_12	Msg_200	ATTESA AGGANCIO VENTOSA - PIANO
	%Q5400.3	%I5400.3	%V3047.0	
	Pist12_no_ok			
	%V4561.3			

App_msg_f5	Msg_201	PREMERE F5 PER CONFERMA AGGANCIO
\$V4562.2	%V3048.0	
Inib_start_a	%V3054.0	
%V4035.0	, ,	
Inib_start_b] [%V3055.0 ()	
%V4035.1		
Inib_start_c	%V3056.0 ()	
%V4035.2		
Inib_start_d	%V3057.0	
%V4035.3		

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```
Decodifica messaggi 129-256
39 Label: LOOP
                    Step:
   Msg_prec[Ind_msg1]
                                                                                                                        (1)
                                                                                                                      -(T)-
     %V34f.0[%M20.W]
    Msg_prec1[Ind_msg1]
        — ] [ —
    %V2fff.0[%M20.W]
                                                                                                                 Ind_msg1 += 1
                                                                                                                    — (T)—
                                                                                                                  %M20.W += 0x1
    Ind_msg1 <= 128</pre>
                                                                                                                  goto(LOOP)
      ____]>[___
                                                                                                                    —— (T) —
    %M20.W <= 0x80
   (1) M22.W = M22.W + M20.W : App_msg1 = App_msg1 + Ind_msg1
40 Label: COPY_MSG Step:
   App msg1 == App msg2
                                                                                                                   goto(FINE)
         _]>[_
                                                                                                                     —(T)-
     %M22.W == %M24.W
                                                                                                                        (1)
                                                                                                                      -(T)—
    Lastplcala_x == 0
                                          TON 28(200)
                                                                                                                        (2)
      ____]>[___
                                                                                                                      -(T)—
     %V520.B == 0x0
    Lastplcala x == 1
                                          TON 29(200)
                                                                                                                        (3)
      ____]>[___
                                                                                                                      -(T)-
    %V520.B == 0x1
   (1) M24.W = M22.W : App_msg2 = App_msg1
   (2) V520.B = 0x1 : Lastplcala_x = 1
   (3) %V520.B = 0x0 : Lastplcala_x = 0
[T] TON_28(0xc8) : TON_28(200)
   [T] TON_29(0xc8) : TON_29(200)
41 Label: FINE
                    Step:
```

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Company:		11011	1001	
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