y Integrated	
utomation Portal	

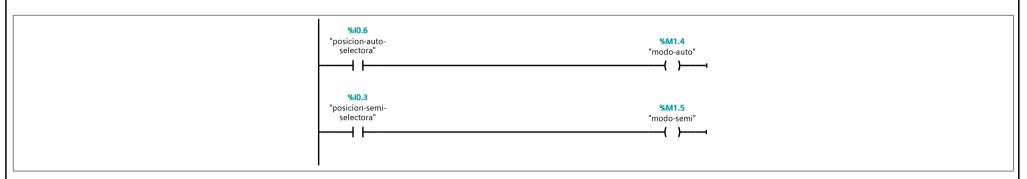
# CORCAÑERO-SEMI1\_V13 / PLC\_3 [CPU 1214C AC/DC/Rly] / Program blocks

## Main [OB1]

Main Properties								
General	General Control of the Control of th							
Name	Main	Number	1	Туре	ОВ	Language	LAD	
Numbering	manual							
Information								
Title	"Main Program Sweep (Cy- cle)"	Author		Comment	El programa se separa en dos modos, el modo auto- matico y el semi automati- co.	Family		
Version	0.1	User-defined ID						

Main					
Name	Data type	Default value	Comment		
Temp					
Constant					

### Network 1: seleccion de modo



Symbol	Address	Туре	Comment
"modo-auto"	%M1.4	Bool	
"modo-semi"	%M1.5	Bool	
"posicion-auto-selectora"	%10.6	Bool	
"posicion-semi-selectora"	%10.3	Bool	

### Network 2: MODO AUTOMATICO y SEMI AUTOMATICO

En este modo la planta funciona de manera automatica.

Totally Integrated **Automation Portal** Network 2: MODO AUTOMATICO y SEMI AUTOMATICO (1.1 / 2.1) %M0.1 "EST\_ ESPERANDO CARGA" **%M0.2**"EST\_
TRANSPORTANDO
CARGA" %M0.5 "EST\_ ESPERANDO RETIRO" %M0.0 %M0.3 %M0.4 %M1.1 %M1.3 %M1.1 "EST\_EMERGECIA" "EST\_LLENADO" "EST\_PAUSA" "EST\_PAUSA" "EST\_DESAGOTE" "EST\_DECISION" -( s )-%M1.3 "EST\_DECISION" %M4.0 "pausa\_activada" %I1.1 "PEM" %M0.0 "EST\_EMERGECIA" **%M0.1**"EST\_
ESPERANDO %M1.4 "modo-auto" %I1.5 "PM" %M1.1 "EST\_PAUSA" CARGA" **%M1.6** "PM\_SEMI" %M1.3 "EST\_DECISION" %M1.5 "C1".CV "modo-semi" == Int %M0.2 "EST\_ TRANSPORTANDO CARGA" "C2".QU %I1.5 "PM" %M1.1 "EST\_PAUSA" **-(** R **)**-**%M0.2**"EST\_
TRANSPORTANDO
CARGA" %M0.1 "EST\_ ESPERANDO CARGA" "C1".CV > | | Int | "C2".CV -( R )-**%I1.1** "PEM" %M4.0 "pausa\_activada" **%M0.1**"EST\_
ESPERANDO
CARGA" **%M0.2**"EST\_
TRANSPORTANDO
CARGA" %M1.4 "C1".CV "modo-auto" > | | Int | "C2".CV -( s )-%M1.6 %M1.5 "modo-semi" "PM\_SEMI" %M1.3 "C1".CV "EST\_DECISION" | > Int %M0.1 %M0.2 "EST\_ ESPERANDO CARGA" "EST\_ TRANSPORTANDO CARGA" "TIMER\_HACIA\_ LLENADO".Q %M0.3 "EST\_LLENADO" %11.1 %M4.0 "pausa\_activada" %M0.2 "EST\_ TRANSPORTANDO CARGA" "TIMER\_HACIA\_ LLENADO".Q %M0.3 "EST\_LLENADO" "C2".QU **-(** s **)**-%M0.4 "EST\_DESAGOTE" %M0.3 "EST\_LLENADO" –( R )– **%I1.1** "PEM" 2.1 (Page1 - 3)

```
Totally Integrated
   Automation Portal
Network 2: MODO AUTOMATICO y SEMI AUTOMATICO (2.1 / 2.1)
                                                                                                                                       1.1 ( Page1 - 2)
                       %M1.4
"modo-auto"
                                             %M0.3
"EST_LLENADO"
                                                                                                                                         %M0.4
"EST_DESAGOTE"
                                                                   "TIMER TOLVA".Q
                                                                                                                                                -( s )−
                                                                         %M0.5
                                                                     "EST_
ESPERANDO
RETIRO"
                                                %I1.4
"S3-OUT"
                                                                                                "C3".QU
                                                                                            %M0.5
"EST_
ESPERANDO
RETIRO"
                       %M1.5
"modo-semi"
                                                  %I1.5
"PM"
                                                                       %I1.4
"S3-OUT"
                                                                                                                       "C3".QU
                                                                    %M0.3
"EST_LLENADO"
                                                                                         "TIMER TOLVA".Q
                                                                          \dashv \vdash
                                             %M0.5

"EST_

ESPERANDO

RETIRO"
                         %I1.4
"S3-OUT"
                                                                                                      %M0.4
"EST_DESAGOTE"
                                                                                                             _( R )_
                          %I1.1
"PEM"
                            <del>1</del>/}
                           %I0.2
"PP"
                                                                                                                   %M0.5
"EST_
ESPERANDO
RETIRO"
                                                                       %I1.4
"S3-OUT"
                                                                                          %M0.4
"EST_DESAGOTE"
                          %M1.4
                       "modo-auto"
                       %M1.5
"modo-semi"
                                               %M1.6
"PM_SEMI"
                           +
                                                                                                             %M0.5
                                                                                                         "EST_
ESPERANDO
                         %I1.4
"S3-OUT"
                                            %M0.4
"EST_DESAGOTE"
                                                                                                            RETIRO"
                                                                                                              -( R )-
                                            %M1.3
"EST_DECISION"
                         "C3".QU
                          %I1.1
"PEM"
                                             %M0.5

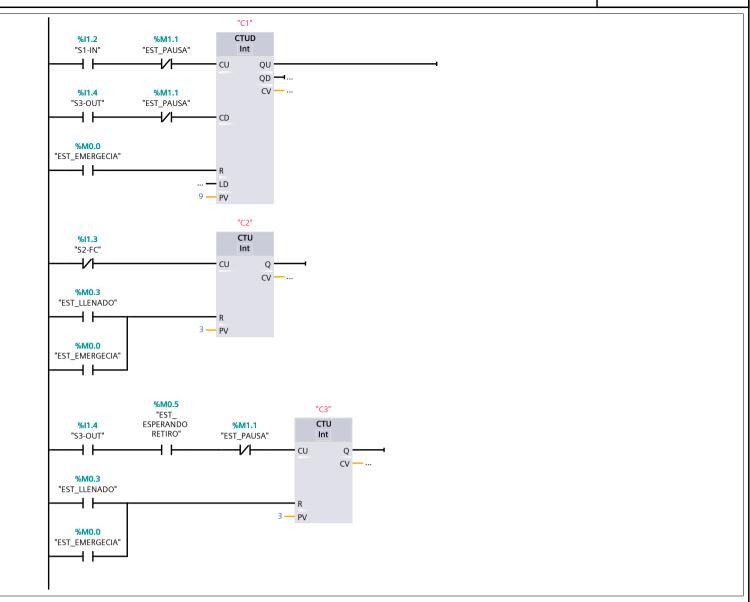
"EST_

ESPERANDO

RETIRO"
                                                                       %I1.4
"S3-OUT"
                                                                                                        %M1.3
"EST_DECISION"
                          "C3".QU
                                                                                                             -( s )-
                      %M0.1
"EST_
ESPERANDO
CARGA"
                                                                                                        %M1.3
"EST_DECISION"
                                                 "C1".CV
                                                  ==
Int
                                                                                                             -( R )-
                   %M0.2
"EST_
TRANSPORTANDO
CARGA"
                                                 "C1".CV
                                                  %M1.1
"EST_PAUSA"
                          "PEM"
```

ymbol	Address	Type	Comment	
1".CV		Int		
2".CV		Int		
:2".QU		Bool		
3".QU	0/11/12	Bool		
ST_DECISION"	%M1.3	Bool		
ST_DESAGOTE"  ST_EMERGECIA"	%M0.4 %M0.0	Bool Bool		
ST_ESPERANDO CARGA"	%M0.1	Bool		
ST_ESPERANDO RETIRO"	%M0.5	Bool		
ST_LLENADO"	%M0.3	Bool		
ST_PAUSA"	%M1.1	Bool		
ST_TRANSPORTANDO CARGA"	%M0.2	Bool		
nodo-auto"	%M1.4	Bool		
nodo-semi"	%M1.5	Bool		
pausa_activada"	%M4.0	Bool		
PEM"	%I1.1 %I1.5	Bool Bool		
PM_SEMI"	%M1.6	Bool		
PP"	%10.2	Bool		
S3-OUT"	%I1.4	Bool		
TIMER TOLVA".Q		Bool		
TIMER_HACIA_LLENADO".Q		Bool		
	-			
	•			
		%I1.5 "PM"	%M1.6 "PM_SEMI" ————————————————————————————————————	
			"PM_SEMI"	
Symbol	Address	"PM"	"PM_SEMI"  ( S )  "M1.6  "PM_SEMI"  ( R )  "M4.0  "pausa_activada"	
C2".QU	Address	"PM"  "EST_ TRANSPORTANDO CARGA" "C2".QU "PM"  WIO.2 %I1.5 "PM"  "PP" "PM"  WM4.0 "pausa_activada"  Type  Bool	"PM_SEMI"  ( s )  "M1.6 "PM_SEMI"  ( R )  "M4.0 "pausa_activada"  ( )	
C2".QU EST_TRANSPORTANDO CARGA"	Address %M0.2	"PM"  *M0.2  "EST_ TRANSPORTANDO CARGA"  "C2".QU  "PM"  *M0.2  "PP"  "PM"  *M4.0  "pausa_activada"  Type  Bool Bool	"PM_SEMI"  ( s )  "M1.6 "PM_SEMI"  ( R )  "M4.0 "pausa_activada"  ( )	
2".QU ST_TRANSPORTANDO CARGA" bausa_activada"	Address  %M0.2 %M4.0	"PM"  "EST_ TRANSPORTANDO CARGA" "C2".QU "PM"  "MI0.2 "PM"  "MI0.2 "PM"  "PM"  "M4.0 "Pausa_activada"  "Type  Bool  Bool  Bool	"PM_SEMI"  ( s )  "M1.6 "PM_SEMI"  ( R )  "M4.0 "pausa_activada"  ( )	
C2".QU ST_TRANSPORTANDO CARGA" bausa_activada" M"	Address %M0.2	"PM"  *M0.2  "EST_ TRANSPORTANDO CARGA"  "C2".QU  "PM"  *M0.2  "PP"  "PM"  *M4.0  "pausa_activada"  Type  Bool Bool	"PM_SEMI"  ( s )  "M1.6 "PM_SEMI"  ( R )  "M4.0 "pausa_activada"  ( )	
C2".QU EST_TRANSPORTANDO CARGA"  pausa_activada"  PM"  PM_SEMI"	Address  %M0.2 %M4.0 %I1.5	"PM"  "EST_ TRANSPORTANDO CARGA" "C2".QU "PM"  %10.2 %11.5 "PM"  %M4.0 "pausa_activada"  Type  Bool  Bool  Bool  Bool  Bool	"PM_SEMI"  ( s )  "M1.6 "PM_SEMI"  ( R )  "M4.0 "pausa_activada"  ( )	
C2".QU EST_TRANSPORTANDO CARGA" Dausa_activada" PM" PM_SEMI" PP"	Address  %M0.2 %M4.0 %l1.5 %M1.6 %l0.2	"PM"  "EST_ TRANSPORTANDO CARGA" "C2".QU "PM"  %I0.2 %I1.5 "PM"  "pausa_activada"  "pausa_activada"  Bool Bool Bool Bool Bool Bool Bool	"PM_SEMI"  ( s )  "M1.6 "PM_SEMI"  ( R )  "M4.0 "pausa_activada"  ( )	
C2".QU EST_TRANSPORTANDO CARGA" Dausa_activada" PM" PM_SEMI" PP"	Address  %M0.2 %M4.0 %l1.5 %M1.6 %l0.2	"PM"  "EST_ TRANSPORTANDO CARGA" "C2".QU "PM"  %I0.2 %I1.5 "PM"  "pausa_activada"  "pausa_activada"  Bool Bool Bool Bool Bool Bool Bool	"PM_SEMI"  ( s )  "M1.6 "PM_SEMI"  ( R )  "M4.0 "pausa_activada"  ( )	
C2".QU EST_TRANSPORTANDO CARGA" Dausa_activada" PM" PM_SEMI" PP"  Letwork 5: ESPERANDO RE	Address  %M0.2 %M4.0 %l1.5 %M1.6 %l0.2	"PM"  "EST_ TRANSPORTANDO CARGA" "C2".QU "PM"  %I0.2 %I1.5 "PM"  "pausa_activada"  "pausa_activada"  Bool Bool Bool Bool Bool Bool Bool	"PM_SEMI"  ( s )  "M1.6 "PM_SEMI"  ( R )  "M4.0 "pausa_activada"  ( )	
C2".QU EST_TRANSPORTANDO CARGA" pausa_activada" PM" PM_SEMI" PP"  Network 5: ESPERANDO RE	Address  %M0.2 %M4.0 %l1.5 %M1.6 %l0.2	"PM"  "EST_ TRANSPORTANDO CARGA" "C2".QU "PM"  %I0.2 %I1.5 "PM"  "pausa_activada"  "pausa_activada"  Bool Bool Bool Bool Bool Bool Bool	"PM_SEMI"  ( s )  "M1.6 "PM_SEMI"  ( R )  "M4.0 "pausa_activada"  ( )	
Symbol C2".QU EST_TRANSPORTANDO CARGA" pausa_activada" PM" PM_SEMI" PP" Network 5: ESPERANDO RE	Address  %M0.2 %M4.0 %l1.5 %M1.6 %l0.2	"PM"  "EST_ TRANSPORTANDO CARGA" "C2".QU "PM"  %I0.2 %I1.5 "PM"  "pausa_activada"  "pausa_activada"  Bool Bool Bool Bool Bool Bool Bool	"PM_SEMI"  ( s )  "M1.6 "PM_SEMI"  ( R )  "M4.0 "pausa_activada"  ( )	

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Symbol	Address	Туре	Comment
"EST_EMERGECIA"	%M0.0	Bool	
"EST_ESPERANDO RETIRO"	%M0.5	Bool	
"EST_LLENADO"	%M0.3	Bool	
"EST_PAUSA"	%M1.1	Bool	
"S1-IN"	%I1.2	Bool	
"S2-FC"	%I1.3	Bool	
"S3-OUT"	%I1.4	Bool	

#### **Network 7: TIMERS**

TIMER HACIA LLENADO

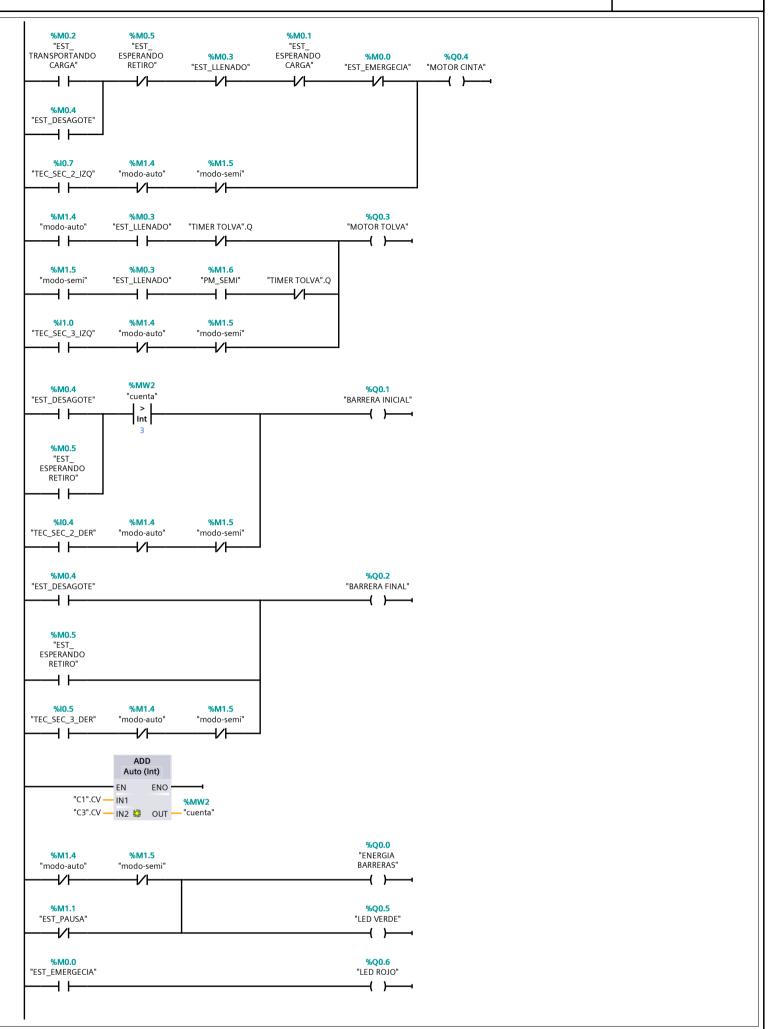
```
%M0.1
                       "EST_
ESPERANDO
CARGA"
                                                                                           %M4.1
                                                                                     "autorretencion_
S2-FC"
    %l1.3
"S2-FC"
                                           %M0.3
"EST_LLENADO"
                                                                     %M4.2
                                                                 "TIMER_RESET"
%M4.1
"autorretencion_
S2-FC"
                                                                                                            "TIMER_HACIA_
LLENADO_
RESET"
                                           "TIMER_HACIA_
LLENADO"
                          %M0.2
                    "EST_
TRANSPORTANDO
CARGA"
    %M4.1
                                                TON
"autorretencion_
S2-FC"
                                                                                                                                 %M4.2
"TIMER_RESET"
                                                Time
                                                                                                                Time
                                                                                              T#500ms — PT
                                                      ET --- ...
                                                                                                                       ET -
    %M1.4
                          %M0.3
                                                                                      "TIMER TOLVA"
  "modo-auto"
                     "EST_LLENADO"
                                                                                        -( TON )--
 %M1.5
"modo-semi"
                         %M0.3
                                               %M1.6
                     "EST_LLENADO"
                                              "PM_SEMI"
```

Symbol	Address	Туре	Comment	
"autorretencion_S2-FC"	%M4.1	Bool		
"EST_ESPERANDO CARGA"	%M0.1	Bool		
"EST_LLENADO"	%M0.3	Bool		
"EST_TRANSPORTANDO CARGA"	%M0.2	Bool		
"modo-auto"	%M1.4	Bool		
"modo-semi"	%M1.5	Bool		
"PM_SEMI"	%M1.6	Bool		
"S2-FC"	%I1.3	Bool		
"TIMER RESET"	%M4.2	Bool		

### **Network 8: SALIDAS**

SALIDAS

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Symbol	Address	Type	Comment	
"BARRERA FINAL"	%Q0.2	Bool		
"BARRERA INICIAL"	%Q0.1	Bool		
"C1".CV		Int		
"C3".CV		Int		
"cuenta"	%MW2	Int		
"ENERGIA BARRERAS"	%Q0.0	Bool		
"EST_DESAGOTE"	%M0.4	Bool		
"EST_EMERGECIA"	%M0.0	Bool		
"EST_ESPERANDO CARGA"	%M0.1	Bool		
"EST_ESPERANDO RETIRO"	%M0.5	Bool		
"EST_LLENADO"	%M0.3	Bool		
"EST_PAUSA"	%M1.1	Bool		
"EST_TRANSPORTANDO CARGA"	%M0.2	Bool		
"LED ROJO"	%Q0.6	Bool		
"LED VERDE"	%Q0.5	Bool		
"modo-auto"	%M1.4	Bool		
"modo-semi"	%M1.5	Bool		
"MOTOR CINTA"	%Q0.4	Bool		
"MOTOR TOLVA"	%Q0.3	Bool		
"PM_SEMI"	%M1.6	Bool		
"TEC_SEC_2_DER"	%10.4	Bool		
"TEC_SEC_2_IZQ"	%10.7	Bool		
"TEC_SEC_3_DER"	%I0.5	Bool		

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	1	L		
Symbol "TEC_SEC_3_IZQ"	Address %I1.0	<b>Type</b> Bool	Comment	
"TIMER TOLVA".Q		Bool		
1				
				İ