

INSATLLATION QUALIFICATION (IQ)

Project No : EMG-20-036
Date : 28.12.2020
Document Ref No : EMG-20-036.IQ

YOUR INOVATION SOLUTION PARTNER





Protocol Document Approved

Prepared by

Name	Department/Function	Date	Sign



Approved by

Name	Department/Function	Date	Sign

Date of Revision

Rev.No.	Date	Prepared by	Description of Changement
01	28.12.2020		Initial Version



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1. Purpose

The purpose of this installation qualification document is to define the installation activities for the Modular Capping Machine and its components.

2. Scope

This installation qualification document is prepared for Modular Capping Machine and related components



Equipment Name	Equipment Code	Equipment / Serial No
Moduler Capping Machine	M-MDL	3844

3. Test Participant and Assignment

In installation qualification activities, the personnel specified in the following list will be employed and must be filled in manually with a blue ballpoint pen..

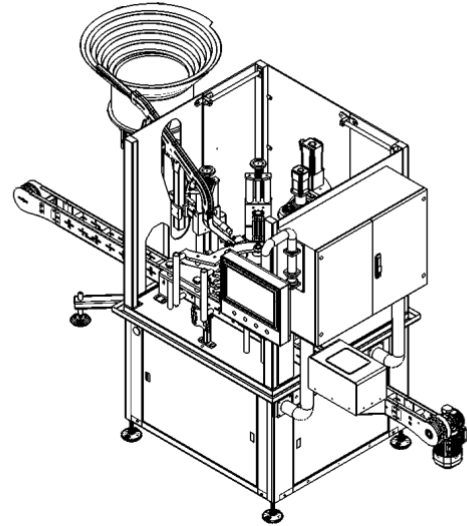
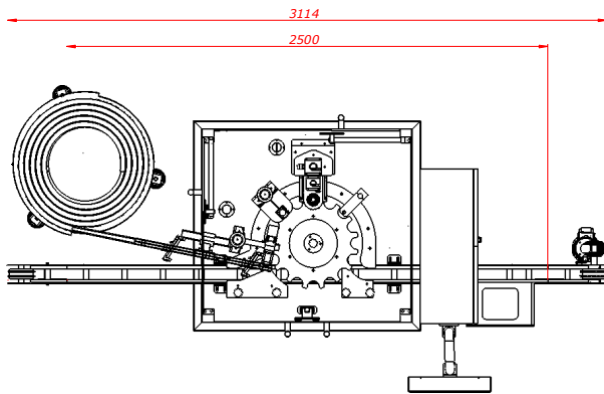
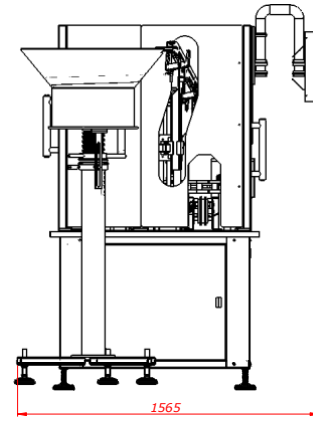
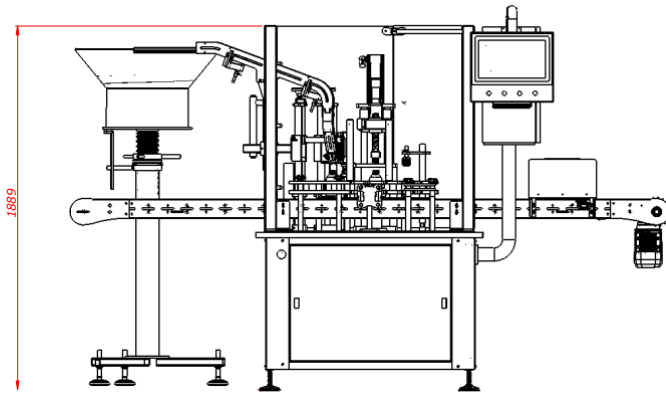
Name&Surname	Assignment	Date	Sign



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4. Drawings

Drawing No	Add	Explanation
3844 ED.097 08.09.2020 02	PDF Dosyası	Moduler Capping Electric Scheme



Controlled by :	Sign :	Date :
Confirmed by :	Sign :	Date :







5. Component List

Mechanic List

Mechanic List (MODULER CAPPING MACHINE-3844)

Stuck No	Stuck Name	QTY	Unity
5 PLAY-124XM20X189	L00457145 (124XM20X189 M20 PASL.AYAK) MAFSALLI	4	QTY
5 MRED-VF44-P1-0,37KW/70	VF44-P1-20P71-B14 (0.37KW/70 dd.İ:20 MOT.REDÜKT.)	1	QTY
5 PLBM-130-25	130-Z21-25 KONV.BANT MAKARASI (1205 7N)	1	QTY
5 PLUP-3-B6-PE1000	B6 GEÇMELİ Z PROFİL YEŞİL-PE1000 (ROCH-101358-R0CH	6	METER
5 PLUP-3-B6-PE1000	B6 GEÇMELİ Z PROFİL YEŞİL-PE1000 (ROCH-101358-R0CH	6	METER
5 PLDP-82-K	82.6mm KAHV.PLAST.DÜZ PALET (C0820K0325LFAA-N2)	3	METER
5 PLDP-82-K	82.6mm KAHV.PLAST.DÜZ PALET (C0820K0325LFAA-N2)	3	METER
5MRD-LC090110STD80A1CD1	LC090 1 10 STD80A1 CD19KE REDÜKT.1/10 BONFIGLIOLİ	1	QTY
5 RBUT-51104	51104 BUTE RULMAN (20-35-10)	1	QTY
5 RZZX-6001	6001 RULMAN (12-28-8)	2	QTY
5 RZZX-6001	6001 RULMAN (12-28-8)	1	QTY
5 RZZX-6003	6003 RULMAN (17-35-10)	1	QTY
5 RZZX-6005	6005 RULMAN (25-47-12)	2	QTY
5 RZZX-6005-KR	6005 PASL. RULMAN (25-47-12)	2	QTY
5 RZZX-6006	6006 RULMAN (30-55-13)	2	QTY
5 RZZX-6204	6204 RULMAN (20-47-14)	2	QTY
5 RZZX-30302	30302 J2 RULMAN (15-40-13) SKF	1	QTY
5 RZZX-30302	30302 J2 RULMAN (15-40-13) SKF	1	QTY
5 RYKE-12-30-7	12-30-7 YAG KEÇESİ SUP-TEX	1	QTY
5 RYAT-LMEK-25-LUU	LMEK-25 LUU KARE FLANŞ UZUN (25X40X112) SAMICK	2	QTY
5 RKAP-GS14-30-42	GS14 30-35 KAPLIN (KULKARNI)	1	QTY
5 RKAP-GS19-40-66	GS19 40-66 KAPLIN (KULKARNI)	1	QTY
5 SANKO-SK0414-2-0I-12	SK0414-2.0I-12-ON İNDİKATÖR (SANKO)	2	QTY
5 POLY-HİWİN-19	4R20/20 K2 FCS SOMUN (HIWIN)	1	QTY
5 POLY-HİWİN-20-ML-340	4R20/20 FSC VİDALI MİL H:340mm (HIWIN)	1	QTY
5 SOMUN-NMZ-15X1	NMZ 15X1 (15X1 -29X14) KONTRA SOMUN) REXROTH	1	QTY
5 KZKA-T5-300	T5-15-300 ZAMAN KAYIŞI	1	QTY
5 KZKA-8M-20-1120	8M-20-1120 KAUÇUK ZAMAN KAYIŞI	1	QTY
5 PNYS-SMC-MGPM-25-20	MGPM-25-20 YATAKLI SİLİNDİR	1	QTY
5 PNSS-SMC-CDQ2B12-15DZ	CDQ2B12-15DZ MANY.STROK SİLİNDİR	1	QTY
5 PNPS-SMC-D-A93L	D-A93L PİSTON SENSÖRÜ	1	QTY
5 PNRE-SMC-1/4	1/4 AR20-F02BE-B REGÜLATÖR +AR20P-270AS-DAHİL	1	QTY
5 PNGV-573606-1/4-5-Lİ	1/4-5-Lİ GRUB VALF 573606 (VTUG-14-VRLK-B1T-G14-UL	1	QTY
5 PNGV-1387363	CTSL-D-16E-M8-3 GİRİŞ MODÜLÜ 1387363	1	QTY
5 PNGV-554038	NEBU-M12G5-K-10-LE5 KABLOLU SOKET 554038	2	QTY



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Mechanic List (MODULER CAPPING MACHINE-3844)

Stuck No	Stuck Name	QTY	Unity
5 ESOK-42-00009-Z1711	42-00009 M8-3 pin ERKEK SOKET (CONEC)	1	QTY
5 ESOK-42-00009-Z1711	42-00009 M8-3 pin ERKEK SOKET (CONEC)	15	QTY
5 PNŞR-FESTO-MSB4-1/4	MSB4-1/4:J92:D15-WP ŞARTLANDIRICI KOMBİ 531029	1	QTY
5 PNMM-FESTO-FMA-40-10	FMA-40-10-1/4-EN FLANŞLI MANOMETRE 159596	1	QTY
5 PNKP-FESTO-40-25	DSBC40-25-PPVA-N3 KARE PİSTON (1376656)	1	QTY
5 PNDP-FESTO-25-180	DSR-25-180P DÖNER İŞ ELEMANI (11911)	1	QTY
5 PLAY-102XM16X165	L00387115 (102XM16X165 M16 PASL.AYAK) MAFSALLI	3	QTY
5 PLKO-M8-1	M8 DIŞI SUSTALI KOL SİYAH	4	QTY
5 PLET-M6-K	M6-KEL.KÜÇ.ERKEK TOPUZ (Q30 M6X20 PASL.SAPL)	1	QTY
5 PLDT-M10-B	M10-KEL.BÜY.DİŞİ TOPUZ (1118 44 308) Q55	1	QTY
5 PLDT-M8-B	M8-KEL.BÜY.DİŞİ TOPUZ (1118 44 303) Q44	8	QTY
5 PLDT-M8-B	M8-KEL.BÜY.DİŞİ TOPUZ (1118 44 303) Q44	3	QTY
5 PLDT-M8-B	M8-KEL.BÜY.DİŞİ TOPUZ (1118 44 303) Q44	1	QTY
5 PLFA-12	12 FOTESEL AYAĞI (13115)	2	QTY
5 PLTA-213/82105	213/82105+227/80679 BÜY.ORTA KONSO+TOPUZ	8	QTY
5 PLTA-229/80609	229/80609+301/83304 ÇİFLİ MİLTUTUCU+MİL 12X117XM10	8	QTY
5 PLKO-215-UKK-PA6	215-UKK-PA6 (KAPAK KOLU KENAR PLASTİĞİ) M8 OLMALI	8	QTY
5 PLMU-11	PLASTİK MENTEŞE -49X49 (215.000.103)	8	QTY
5 KRDI-1-1/4	1 1/4-42,4X2 KROM DİRSEK	2	QTY
5 KRDI-60X1,5	60X1,5mm 304-KLT.POLY.KROM DİRSEK	2	QTY
5 VİBRATÖR	KAPAK BESLEME VİBRATÖRÜ	1	QTY







Electronic List

Electronic List (MODULER CAPPING MACHINE-3844)

Stuck No	Stuck Name	QTY	Unity
5 EPPA-800X600X300-ÇKPL	SSET-800X600X300 304-PASL.ÇİFT KAPILI İSPANY.KİLİT	1	QTY
5 EFFİ-150X150-FAN	PFB2000-150X150mm 230V.FANLI FİLTRE (TF2000)	1	QTY
5 EFFİ-150X150-FİLTRE	PFA-2000-150X150X27mm FİLTRE IZGARA (TFA2000)	1	QTY
5 ETERM-KTS011	KTS011-0-60c TERMOSTAT (STEGO)01141.0-00	1	QTY
5 EPPA-40X60X20-PL	400X600X200 ŞEFFAF PANO (ÇB5015)	1	QTY
5 SİES-STÖ-05	STÖ-05X50mm PASL.TEL ÖRGÜLÜ KABLO KANALI-2,5mt	2,5	METER
5 SİES-STÖ-15	STÖ-50X150mm PASL.TEL ÖRGÜLÜ KABLO KANALI-2,5mt.	2,5	METER
5 PHCENIX-1206421	1206421 NS35/7,5 ZN PERF2000mm DEL.W.OTOM.RAYI 2mt	2	METER
5 EKPS-ONKA-7160	7160 ONKA PANO PRİZİ	1	QTY
5 EFLA-SNT-74-B-RGB	SNT-74-B-RGB 12-24V.DC 4-RENK BAZIRLI İKAZ LAMBASI	1	QTY
5 EDKK-40-80	40X80 GRİ DELİKLİ KABLO KANALI (2mtX36mt.)	2	METER
5 EDKK-60-80	60X80 DELİKLİ KABLO KANALI (2mt.X24 mt.)	2	METER
5 EHKO-3G3MX2-AB004E-ECT	0,4/0,55 KW. HIZ KONTROL (3G3MX2-AB004-E-ECT)	1	QTY
5 EGKA-S8VK-C12024	S8VK-C12024 (24V.DC 5-A.120W. GÜÇ KAYNAĞI)	1	QTY
5 DELTA-NDR-480-48	NDR-480-48 (48VDC.10A.GÜÇ KAYNAĞI) MEAN WELL	1	QTY
5 TMK-A9K24110-10AX1	10AX1 W.OTOM.SİGORTA (A9K24110) TMK	2	QTY
5 TMK-A9K24106-6AX1	6AX1 W.OTOM.SİGORTA (A9K24106) TMK	1	QTY
5 TMK-24351	24351- 20AX3 OTOM.SİGORTA (A9K24320)	1	QTY
5 TMK-VCF-0	VCF-0 - 25A ENMİYET ŞALTERİ	1	QTY
5 ERÖ-K8AK-PM2	K8AK-PM2 KONTROL RÖLESİ (OMRON)	1	QTY
5 EM-KONT-DILEM-10-220V	DILEM-10 (4 KW.220V.AC KONTAKTÖR (MOELLER)	1	QTY
5 TMK-XB5-AS542	XB5-AS8442 ACİL DURDURMA BUTONU	1	QTY
5 ETİKET-28113	EMERGENCY ETİKETİ -800F-15YSE112 (ALLEN BRADLEY)	1	QTY
5 ETİKET-28113	EMERGENCY ETİKETİ -800F-15YSE112 (ALLEN BRADLEY)	1	QTY
5 TMK-XB5-AW31B5	XB5-AW31B5 BEYAZ LEDLİ BUTON	1	QTY
5 TMK-XB5-AW33B5	XB5-AW33B5 YEŞİL LEDLİ BUTON	1	QTY
5 TMK-XB5-AW36B5	XB5-AW36B5 MAVİ LEDLİ BUTON	1	QTY
5 ERÖ-CMS-E-ER-099182	CMS-E-ER 099182 DEGERL.ÜNİTESİ (EMNİY.RÖLESİ)	1	QTY
5 TMK-XCS-DMC5905	XCS-DMC 5905 EMNİYET NİHAYET ŞALTERİ-TMK	4	QTY
5 ESWÇ-Z-15GQ22-B	Z-15GQ22-B MAKARALI SWİÇ (OMRON)	1	QTY
5 BİLG-TPC1507C	15,6" TPC1507C 1920X1080 HDMI+DVI+VGA CAPACİTİVE	1	QTY
5 BECK-CX5130-0122	CX5130-0122 BASİC CPU MODULE CX5130 MICROSOFT	1	QTY
5 BECK-CX2900-0038	CX2900-0038 30 GB CFAST CARD 3D FLASH EXTENDED	1	QTY
5 BECK-ZK1090-9191-0010	ZK1090-9191-0010 ETHER CAT KABLOSU 1mt BECKHOFF	1	QTY
5 BECK-ZK1090-9191-0010	ZK1090-9191-0010 ETHER CAT KABLOSU 1mt BECKHOFF	1	QTY
5 BECK-EL1008	EL1008- 8 KANAL 24VDC 3.0 ms FİLTR.DİGİTAL GİR.TER	1	QTY



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Stuck No	Stuck Name	QTY	Unity
5 BECK-EL2008	EL2008- 8 KANAL 24VDC 0.5A DİĞİTAL ÇIKIŞ TERMİNALİ	1	QTY
5 BECK-EL6224	EL6224 IO-LINK TERMİNALİ BECKHOFF	1	QTY
5 BECK-EL7211-0010	EL7211-0010 SERVO MOT.TERMİNALİ TEK KABL.50VDC-6,3	1	QTY
5 BECK-EL9011	EL9011 (SONLANDIRICI PLAKA)	1	QTY
5 BECK-EL9570	EL9570 (BUFFER KAPASİTÖR TERMİNAL)	1	QTY
5 BECK-ZB8500	ZB8500 (EKTRAN BAĞL.VİDA SIKMA KELEBÇESİ 11mmX8mm)	1	QTY
5 BECK-ZB8511	ZB8511 (EKTRANLAMA BARASI 10X3mm	1	QTY
5 BECK-AX5206-0000-0200	AX5206-0000-0200 ETHERCAT SÜRÜCÜ 2X6A V2	1	QTY
5 BECK-AM8042-OF11	AM8042-OF11 FRENLİ SERVO MOTOR BECKHOFF	1	QTY
5 BECK-AM8043-OE10	AM8043-OE10-0000 (SERVO MOTOR) BECKHOFF	1	QTY
5 BECK-AM8131-OF20	AM8131-OF20 (SERVO MOTOR) BECKHOFF	1	QTY
5 BECK-ZK4500-8003-0030	ZK4500-8003-0030 (SERVO MOT.GÜÇ KABLOSU 3m)	1	QTY
5 BECK-ZK4500-8023-0050	ZK4500-8023-0050 SERVO MOTOR KABLOSU 5mt.	1	QTY
5 BECK-ZK4704-0421-2050	ZK4704-0421-2050 SERVO MOTOR KABLOSU 5mt.	1	QTY
5 SICK-WLG4S-3F2234	WLG4S-3F2234 REF.ŞEFFAF ŞİŞE FOTOSELİ SICK-1042084	1	QTY
5 SICK-WLG4S-3F2234	WLG4S-3F2234 REF.ŞEFFAF ŞİŞE FOTOSELİ SICK-1042084	2	QTY
5 SICK-P250-F	P250-F REFLEKTÖR (5308843) SICK	2	QTY
5 SICK-PL20F	PL20F 20X40mm REFLEKTÖR (5308844)	1	QTY
5 EFOT-OGU-051-G3-T3	OGU-051-G3-T3 ÇATAL FOTOSEL (210244 Dİ-SORİC)	1	QTY
5 EFOT-OGU-051-G3-T3	OGU-051-G3-T3 ÇATAL FOTOSEL (210244 Dİ-SORİC)	1	QTY
5 ESEN-800735-NBB4-12GM5	NBB4-12GM50-E2-V1 (M12 SOK.ENDÜKT.SENSÖR)+032798	2	QTY
5 ESOK-MURR-7000-12721	MURR-7000-12721 M12 5pin ERKEK KONNEKTÖR (MURR)	1	QTY
5 ESOK-MURR-7000-12921	MURR-7000-12921 M12 5pin DİŞİ KONNEKTÖR (MURR)	1	QTY
8 BİLG-SLX-310	SLX-310 1,5mt. HDMI+DVI CABLE (S-LINK)	1	QTY







6. Critical Sensor List

Critical Sensor List (MODULAR CAPPING MACHINE-3844)

Stuck No	Stuck Name	QTY	Unity
5 SICK-WLG4S-3F2234	WLG4S-3F2234 REF.ŞEFFAF ŞİŞE FOTOSELİ SICK-1042084	1	QTY
5 SICK-WLG4S-3F2234	WLG4S-3F2234 REF.ŞEFFAF ŞİŞE FOTOSELİ SICK-1042084	2	QTY
5 EFOT-OGU-051-G3-T3	OGU-051-G3-T3 ÇATAL FOTOSEL (210244 Dİ-SORİC)	1	QTY
5 EFOT-OGU-051-G3-T3	OGU-051-G3-T3 ÇATAL FOTOSEL (210244 Dİ-SORİC)	1	QTY
5 ESEN-800735-NBB4-12GM5	NBB4-12GM50-E2-V1 (M12 SOK.ENDÜKT.SENSÖR)+032798	2	QTY

Tested By :	Sign :	Date :
Checked By :	Sign :	Date
Approved By :	Sign :	Date :



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7. Equipment Assignment

The identification plate, position, orientation and fixation of the equipment are checked after equipment installation. These controls apply to all equipment on the line. This work covers the entire line.

Test Control	Is it Proper ?	
	Yes	Yes
Is the identification plate (equipment no) on the equipment?		
According to the layout drawings, was the equipment installed in the correct position?		
Check the alignment of the equipment with the water gage . Is the alignment of the equipment appropriate?		
Is it appropriate to fix the equipment?		
Is the equipment undamaged?		

Tested By :	Sign :	Date :
Checked By :	Sign :	Date
Approved By :	Sign :	Date :



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8. IQ For Electrical and Control Cabine

This table applies to all line equipment. Situations that make a difference are indicated in the" comments " section.

Test Control	Is it Proper ?		
	Yes	Hayır	N/A
Is the order complete?			
Is manufacturer documentation available?			
Do the cabin doors open and close properly?			
Are cautionary and informative signs appropriate??			
Is it connected to the protection earth of all doors, doors and metal sheets?			
Feed mono phase			
Feeding rated frequency 50Hz			
All emergency stop circuits have been tested and are they suitable?			

Tested By :	Sign :	Date :
Checked By:	Sign:	Date: :
Approved By :	Sign :	Date :



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9. Hardware Setup Qualification

IQ for PLC Controller

Equipment Code	Equipment Name	QTY.	Pro.
5 BECK-EL1008	EL1008- 8 KANAL 24VDC 3.0 ms FİLTR.DİĞİTAL GİR.TER	1	BECKHOFF
5 BECK-EL2008	EL2008- 8 KANAL 24VDC 0.5A DİĞİTAL ÇIKIŞ TERMİNALİ	1	BECKHOFF
5 BECK-EL6224	EL6224 IO-LINK TERMİNALİ BECKHOFF	1	BECKHOFF
5 BECK-EL7211-0010	EL7211-0010 SERVO MOT.TERMİNALİ TEK KABL.50VDC-6,3	1	BECKHOFF
5 BECK-EL9570	EL9570 (BUFFER KAPASİTÖR TERMİNAL)	1	BECKHOFF

Controller	Yes / No / NA	Date	Sign
PLC / controller construction in accordance with specifications			



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10. Software Setup Qualification



System Description	
System / Machinery Name	MODULAR CAPPING MACHINE
Serial Number	M-MDL
Manufacturer	ELEKTROMAG
System / Device Design Purpose	HMI
Software Platform	TWINCAT

Installation Info

Operating System	
Operating System	WINDOWS 7 Embedded

PLC Software	
Controller	BECKHOFF
Network Connection	ETHERCAT
Operator Panel	MOVICON
Programming and Configuration Device	TWINCAT
Comments	



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11. IQ Test Specification



Considerations In Test Protocols

- Fill all procedures used with a blue ballpoint pen, never use a course pen.
- Never delete or doodle incorrect entries or typos. Just draw the wrong entry and type the correct entry. Do it Date and Paragh.
- Test forms must be completed by authorized personnel simultaneously with the application. It must be approved by authorized personnel..
- All supporting documents used and created during the implementation of tests are considered part of the qualification package and must be added to the end of the test.
- All protocols must be approved by the customer. All tests must be given the latest approval by the customer.

Deviation / Error

- Errors/deviations encountered during tests should include the following information;
- Reference information to the test where deviation/error is seen,,
- Estimates for deviation/error,
- Prescribed corrective action for deviation/error
- Signature and date information of the person who detected the deviation/error
- Confirmation information provided by customer regarding deviation / error



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12. Installation Qualification Test

Modular Capping Machine

Test No	Test Step	Acceptance Criteria	Has the Acceptance Criteria been met??	Applied by Paragh/Date	Confirmed by Paragh/Date
1.1	Check the electric connections	4.5 kw monophase power line must be drawn.	Yes [] No []		
1.2	Check the air connection.	4-6 bar air line should be connect to the machine	Yes [] No []		
1.3	Check the gorunding.	Machine grounding should be made.	Yes [] No []		
1.4	Check by eye that the Modular Capping machine does not have any defects in its visual controls. (dents, scratches, cracks, etc.)	The machine should not have any defects.	Yes [] No []		
1.5	Check the model and serial number of the machine.	The definition plate must be installed on the machine together with the brand model and serial number.	Yes [] No []		
1.6	Are the enter empty and exit full photocells adjusted according to the bottle to be worked ?	Enter empty and exit full photocells should be adjusted	Yes [] No []		
1.7	Check the enter conveyor barrier width.	The width should be adjusted according to the height of the bottle being worked.	Yes [] No []		
1.8	Check the vibrator group.	The vibrator group should be ready in place.	Yes [] No []		
1.9	Check the cap squeezing group.	The cap squeezing group must be installed and ready for closing.	Yes [] No []		
1.10	Check the cap nailing group	The cap squeezinailingng group must be installed and ready for closing.	Yes [] No []		
1.11	Check the cap carrier group.	The cap carrier group must be installed and the cap must be ready for Transport.	Yes [] No []		
1.12	Check if the machine is installed in place of the star group.	The appropriate star must be installed in the bottle to be worked.	Yes [] No []		





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Test No	Test Step	Acceptance Criteria	Has the Acceptance Criteria been met??	Applied by Paragh/Date	Confirmed by Paragh/Date
1.13	Check the cap control photocell.	Cap control photocell must be installed.	Yes [] No []		
1.14	Check the door	Doors and safety finally switches must be installed	Yes [] No []		
1.15	Check if the capping head is suitable according to the bottle.	The head manufactured for the bottle to be worked must be mounted.	Yes [] No []		
1.16	Check the reject group.	Reject grubu must be installed.	Yes [] No []		
1.17	Check that the cap channels between the vibrator and the closing machine are installed.	Cap channel connections must be made.	Yes [] No []		
1.18	Check if the cap channel is set to a star.	According to the star, the height and center should be adjusted.	Yes [] No []		
1.19	The cap contained in the cap cannal has decreased the presence of the fork photocell check.	Cap reduced fork photocell must have been mounted in cap channel.	Yes [] No []		
1.20	Check the cap, located in the cap channel, is fork photocell finished exist.	Cap finished fork photocell must have been mounted in cap channel.	Yes [] No []		
1.21	Check that the vibrator's energy cable sockets are connected to the machine.	The power cable sockets must be connected to the machine.	Yes [] No []		
1.22	Check Vibrator cover reduced sensor.	Vibrator cap reduced sensor must be mounted	Yes [] No []		
1.23	Check that the labeling of the electrical system corresponds to what is specified in the electrical diagram.	The electrical system is correctly labeled.	Yes [] No []		
1.24	Check the control unit.	Control type should be PLC + HMI olmalıdır.	Yes [] No []		
1.25	After checking the electrical and air connections, put the pako switch in position 1 and check if there is electricity coming into the machine.	The electricity should be coming into the machine.	Yes [] No []		
1.26	Check the manual mode/	The machine should be jog mode.	Yes [] No []		
1.27	Check the emergency button.	There should be emergency button.	Yes [] No []		





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13. Additional Tests

Test No	Test Step	Acceptance Criteria	Has the Acceptance Criteria been met??	Applied by Paragh/Date	Confirmed by Paragh/Date
			<p style="text-align: center;">Yes [] No []</p>		
			<p style="text-align: center;">Yes [] No []</p>		
			<p style="text-align: center;">Yes [] No []</p>		
			<p style="text-align: center;">Yes [] No []</p>		



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14. Test Deviation Records / Deficiencies List

Deviations are recorded and identified in this list. This page can be used by photocopy.



Working No:

No	Reference	Test Deviation / Deficiencies	Classification (A,B,C)	Date / Sign	Measures/Actions/Notes/Reason

A: About GMP and critical, It must be solved before finisg the IQ
B: About GMP, but not critical ,ex; missing documentation
C: Other deviations



Applied by :	Date :	Sign :
Checked by. :	Date :	Sign :
Confirmed after completed :	Date :	Sign :



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15. Comments and Explantions





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16. Additions

Drawing No	Addition	Explanation
3844 ED.097 08.09.2020 02	PDF Dosyası	Modular Capping Elektrik Scheme



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17. Release for OQ



Deficiencies are present

- [] Cannot proceed to OQ stage / critical
Deviations/errors occurred during installation qualification work. After removal of open substances, installation Qualification Work will be repeated. Actions and responsibilities related to open substances are listed below.
- [] Not critical / Deficiencies can be completed during OQ stage.
Deficiencies occurred during the installation qualification. These deficiencies are mentioned in the descriptions section of the tests. If there is a corrective/preventive action to be taken regarding these deficiencies, below.IQ it has been accepted with existing deviations.
- [] No deficiencies about the GMP. Proceed to the OQ stage with the current deficiencies.
- [] Proceed to the OQ stage without any deficiencies.

Installation qualification studies met all acceptance criteria and no deviation/ error occurred during the studies.

According to the approval of this report,IQ(installation Qualification) has been completed and passed to the OQ(Operation Qualification) phase.



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18. Test Report Acceptance

Prepared by

Name	Department/Function	Date	Sign

Approved by

Name	Department/Function	Date	Sign





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