



INSTALLATION QULIFICATION (IQ)

Project No : EMG-20-040
Date : 24.02.2021
Document Ref Number : EMG-20-040.IQ

AUTOMATIC LINEAR TYPE ROUND BOTTLE SELF LABELLING MACHINE

M-ETK-A02

	Installation Qualification (IQ)				ABDIIBRAHIM 	
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Protocol Document Approved

Prepared by



Name	Department/Function	Date	Sign

Approved by

Name	Department/Function	Date	Sign



Revizyon Tarihçesi

Rev.No.	Date	Prepared by	Description of Change ment
01	24.02.2021		Initial Version

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1. Purpose

The purpose of this installation qualification document is to define the installation activities for Round Bottle Labelling Machine and its components.

2. Scope



This installation qualification document is prepared for Round Bottle Labelling Machine automation system and related components

Equipment Name	Equipment Code	Equipment No / Serial No
Round Bottle Labelling Machine	M-ETK-A02	3845

3. Test Participant and Assignment

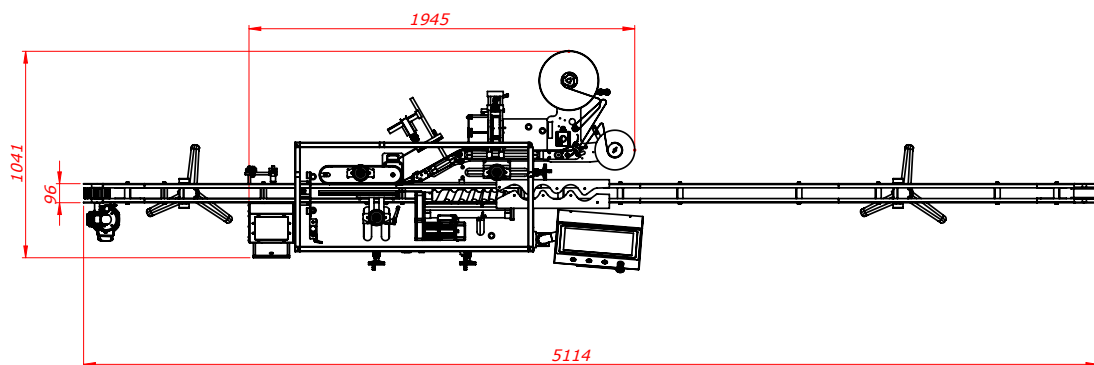
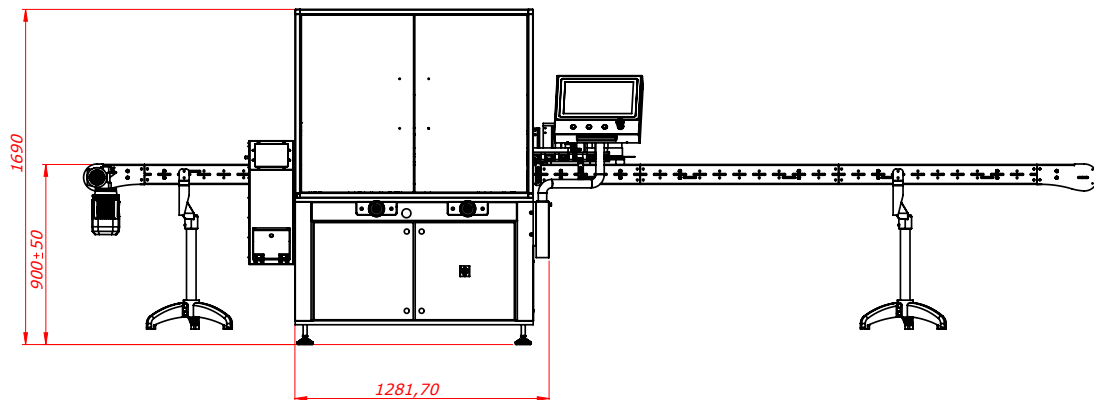
In installation qualification activities, the personnel specified in the following list will be employed and must be filled in manually with a blue ballpoint pen.

Name Surname	Assignment	Date	Sign



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4. Drawings

Drawing No	Appendix	Explanation
3845-ED.125-22.12.2020-01	PDF File	Round Bottle Labelling Machine Electric Schme



Controlling :	Sign :	Date :
Approving :	Sign :	Date :



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5. Component List

MECHANICAL LIST



Mechanical List (Round Bottle Labelling Machine-3845)

Stock No	Stock Name	QTY	Unit
5 MRED-VF44-P1-0,37KW/41	VF44-P1-35P71-B14 (0.37KW/41 dd.İ:35 MOT.REDÜKT.)	1	QTY
5 PLBM-130-25	130-Z21-25 KONV.BANT MAKARASI (1205 7N)	1	QTY
5 MRED-VF30-P1-0,18KW/96	VF30-P1-15P63 B14 (0.18KW/96 dd.İ:15 MOT.REDÜKTÖR)	1	QTY
5 PLVO-100-KATL-KOLLU	7307D345F-100V12X50 KATL.KOLLU ÇARK (VOLANT)	1	QTY
5 RZZX-6001	6001 RULMAN (12-28-8)	2	QTY
5 RZZX-6004	6004 RULMAN (20-42-12)	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-16101	16101 RULMAN (12-30-8)	4	QTY
5 PLKO-M10-1	M10 DIŞI SUSTALI KOL SİYAH	1	QTY
5 PLKO-M8-1	M8 DIŞI SUSTALI KOL SİYAH	1	QTY
5 PLÜP-1	48,3mm KONV.AYAK ÜST BAGL.(14050)	2	QTY
5 PLKO-M8-1	M8 DIŞI SUSTALI KOL SİYAH	1	QTY
5 İGUS-GSM-2528-20	GSM-2528-20 (25-28-20) SİLİDİRİK YATAK	8	QTY
5 PLAY-124XM20X189	L00457145 (124XM20X189 M20 PASL.AYAK) MAFSALLI	4	QTY
5 PLKO-M8-1	M8 DIŞI SUSTALI KOL SİYAH	1	QTY
5 PLVO-7302232-80X10X20	7302232- 80X10X20 ÇARK (VOLANT)	5	QTY
5 RZZX-6001	6001 RULMAN (12-28-8)	5	QTY
5 RZZX-609	609 RULMAN (9-24-7)	1	QTY
5 CISOM-M8-DIN-466	M8 (30-16-18) TIRTL SİLİND.BAŞLI AYAR SOMUN A2 466	1	QTY
5 RZZX-608	608 RULMAN (8-22-7)	1	QTY
5 PLKO-M6-1	M6 DIŞI SUSTALI KOL SİYAH	1	QTY
5 KZKA-5M-390	5M-15-390 ZAMAN KAYIŞI	1	QTY
5 RZZX-609	609 RULMAN (9-24-7)	1	QTY
5 RZZX-625	625 RULMAN (5-16-5)	1	QTY
5 RZZX-6001	6001 RULMAN (12-28-8)	4	QTY
5 PLDP-82-K	82.6mm KAHV.PLAST.DÜZ PALET (C0820K0325LFAA-N2)	7,25	QTY
5 PLUP-3-B6-PE1000	B6 GEÇMELİ Z PROFİL YEŞİL-PE1000 (ROCH-101358-R0CH	14,5	QTY
5 SANKO-SK0412-2-0I-12	SK0412-2.0I-12-ON İNDİKATÖR (SANKO)	3	QTY
5 SANKO-SK0414-2-0I-12	SK0414-2.0I-12-ON İNDİKATÖR (SANKO)	4	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 RZZX-6001	6001 RULMAN (12-28-8)	1	QTY
5 PLMU-6	A1101-62586- 3 LÜ ÇATAL BAGL.	6	QTY
5 PLMU-7	A1108-62746- LE DÜZ ÇERÇEVE BAGL.	8	QTY

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Stock No	Stock Name	QTY	Unit
5 PLMU-9	A1101-673561- TE ÇERÇEVE BAGL.	5	QTY
5 PLMU-11	PLASTİK MENTEŞE -49X49 (215.000.103)	6	QTY
5 PLMU-5	ÇERÇEVE MIKNATIZI- (689-000-101) RMCO18	6	QTY
5 PLKO-215-UKK-PA6	215-UKK-PA6 (KAPAK KOLU KENAR PLASTİĞİ) M8 OLMALI	6	QTY
5 PLMU-10	6mm ÇERÇEVE KELEPÇESİ-(767 000 006)	27	QTY
5 HP-MARKEM-İMAJE-8018	MARKEM-İMAJE-8018 İNTERMITTENT (BRACKET) DAHİL	1	QTY
8 KİLİT-8	HSR-203 FONKSİYONEL PANO KAPAK KİLİTİ (HİSAR)	2	QTY
8 MENTEŞE-HSR-311	HSR311C - 50X50KROM YAPRAK MENTEŞE	4	QTY
5 RZZX-6000	6000 RULMAN (10-26-8)	6	QTY
5 RZZX-6001	6001 RULMAN (12-28-8)	1	QTY
5 RZZX-6002	6002 RULMAN (15-32-9)	1	QTY
5 RZZX-6003	6003 RULMAN (17-35-10)	3	QTY
5 RZZX-608	608 RULMAN (8-22-7)	6	QTY
5 RZZX-626	626 RULMAN (6-19-6)	6	QTY
5 RMAS-1616	HF 1616 L564 İGNE RULMAN (İNA)	1	QTY
5 KZKA-5M-15-300	5M-15-300 KAUCUK ZAMAN KAYIŞI	1	QTY
5 RZZX-6002	6002 RULMAN (15-32-9)	1	QTY
5	600.484.56 PLAST.DAR HAVA TARAGI (LECHLER)	1	QTY
5 PLMT-12	12 MİL TUTUCU (13114)	2	QTY

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ELECTRONICAL LIST

Electronic (Round Bottle Labelling Machine-3845)

Stock No	Stock Name	QTY	Unit
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 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.)	4	METER
5 EHKO-3G3MX2-AB004E-ECT	0,4/0,55 KW. HIZ KONTROL (3G3MX2-AB004-E-ECT)	2	QTY
5 EHKO-3G3MX2-AB004E-ECT	0,4/0,55 KW. HIZ KONTROL (3G3MX2-AB004-E-ECT)	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	3	QTY
5 TMK-A9K24106-6AX1	6AX1 W.OTOM.SİGORTA (A9K24106) TMK	1	QTY
5 TMK-A9K24106-6AX1	6AX1 W.OTOM.SİGORTA (A9K24106) TMK	1	QTY
5 TMK-VCF-01	VCF-01- 20A EMNİYET ŞALTERİ	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 TMK-XB5-AW33B5	XB5-AW33B5 YEŞİL LEDLİ BUTON	2	QTY
5 EFOT-087797-OBT500	087797 OBT500-18GM60-E5-V1 (SOK.CİSİMD.YANS.FOT.)	1	QTY
5 BECK-C6030-0060	C6030-0060 ULTRA-COMPACT İNDUSTRIAL PC	1	QTY
5 BECK-C9900-C611	C9900-C611 PROCESSOR 6TH GENERATION İNTEL	1	QTY
5 BECK-C9900-R270	C9900-R270 MEMORY EXTENSION TO 8 GB DDR4 RAM	1	QTY
5 BECK-C9900-S479	C9900-S479 MİCRASOFT WİNDOWS 10 LOT ENTERPRİSE	1	QTY
5 BECK-TC1250-OV50	5 BECK-TC1250-ov50 twincat-3 NC LİSANS BECKHOFF	1	QTY
5 BECK-EK1100	EK1100 ETHERCAT COUPLER FOR E-BUS TERMİNAL	1	QTY
5 BECK-EL1809	EL1809 (16-CHANNEL DİGİTAL İNPUT TERMİNAL	1	QTY
5 BECK-EL2809	EL2809 (16-CHANNEL DİGİTAL OUTPUT TERMİNAL	1	QTY
5 BECK-EL7221-9014	EL7221-9014 SERVO MOT.TERMİNAL 50VDC.7...8A	1	QTY
5 BECK-EL9011	EL9011 (SONLANDIRICI PLAKA)	1	QTY
5 BECK-EL9576	EL9576 FREN DİRENCİ ANAHTARLAMA TERMİNALİ	1	QTY
5 BECK-ZB8500	ZB8500 (EKİKRAN BAĞL.VİDA SIKMA KELEBÇESİ 11mmX8mm)	1	QTY
5 BECK-ZB8511	ZB8511 (EKİKRANLAMA BARASI 10X3mm	1	QTY
5 BECK-ZB8610	ZB8610 FAN CATRİDGE FOR ETHER CAT AND BUS TERMİNAL	1	QTY
5 BECK-AM8132-1J10	AM8132-1J10 (SERVO MOTOR) KAMALI BECKHOFF	1	QTY
5 BECK-ZK4704-0421-2030	ZK4704-0421-2030 (MOTOR GÜÇ KABLOSU-3mt.)	1	QTY
5 BECK-ZK1090-9191-0001	ZK1090-9191-0001 (ETHERCAT KABLOSU 0.17m) BECKHOF	2	QTY
5 EMFİ	1X16A. MONOF.TOPR. ERKEK DÜZ FİŞ-3201-301-0300	1	QTY
5 BECK-ZK1090-9191-0015	ZK1090-9191-0015 ETHER CAT KABLOSU 1,5mt BECKHOFF	2	QTY
5 BİLG-TPC1507C	15,6" TPC1507C 1920X1080 HDMI+DVI+VGA CAPACİTİVE	1	QTY
5 E9I40PTL+E9HK025B	EXCEM E9I40PTL+E9HK025B 3X220VAC REDÜKT.MOTOR	1	QTY



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Stock No	Stock Name	QTY	Unit
5 EFOT-VT18-8-H-120-M40a	VT18-8-H-120-M/40a/65b/118/128-HASS.CİSİMD.YANS.FO	1	QTY
5 EGKA-S8VK-C24024	S8VK-C24024 (24V.DC 10A.240W.GÜÇ KAYNAĞI) OMRON	1	QTY
5 EPPA-1020X500X280-P	SSET1020X500X280 304-PASL.ÇİFT KAPILI PULT KİLİTLİ	1	QTY
5 ESOK-MURR-7000-12721	MURR-7000-12721 M12 5pin ERKEK KONNEKTÖR (MURR)	2	QTY
5 ESOK-MURR-7000-12921	MURR-7000-12921 M12 5pin DİŞİ KONNEKTÖR (MURR)	2	QTY
5 LEUZE-50109343	50109343-LRT8/24.04-100-S12 LUMİNANS UV-SENSÖR	2	QTY
5 MRD-E9I120PTH+E9VK010B	E9I120PTH+E9VK010B 120W.3X220VAC MOT.REDÜKT.1/10	1	QTY
5 OMRO-7412-2000-2102	7412-2000-2102 MICROHAWK-MV40 24V.DC	1	QTY
5 OMRO-V430-W8-5M	V430-W8-5M M12-12pin SOCKET	1	QTY
5 OMRO-V430-WE-5M	V430-WE-5M M12-8pin SOCKET	1	QTY
5 SICK-P250-F	P250-F REFLEKTÖR (5308843) SICK	2	QTY
5 SICK-WF2-40B410	WF2-40B410 ÇATAL FOTOSEL SICK-6028428	2	QTY
5 SICK-WLG4S-3F2234	WLG4S-3F2234 REF.ŞEFFAF ŞİŞE FOTOSELİ SICK-1042084	3	QTY
5 TMK-XB5-AW31B5	XB5-AW31B5 BEYAZ LEDLİ BUTON	1	QTY
5 TMK-XB5-AW36B5	XB5-AW36B5 MAVİ LEDLİ BUTON	1	QTY
5 TMK-XCS-DMC5902	XCS-DMC 5902 EMNİYET NİHAYET ŞALTERİ-TMK	3	QTY
5 EGKA-S8VK-C12024	S8VK-C12024 (24V.DC 5-A.120W. GÜÇ KAYNAĞI)	1	QTY





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6. Critical Sensor List

Critical Sensör List (Round Bottle Labelling Machine-3845)

Stock No	Stock Name	QTY	Unit
5 EFOT-VT18-8-H-120-M40a	VT18-8-H-120-M/40a/65b/118/128-HASS.CİSİMD.YANS.FO	1	QTY
5 LEUZE-50109343	50109343-LRT8/24.04-100-S12 LUMİNANS UV-SENSÖR	2	QTY
5 SICK-WF2-40B410	WF2-40B410 ÇATAL FOTOSEL SICK-6028428	2	QTY
5 SICK-WLG4S-3F2234	WLG4S-3F2234 REF.ŞEFFAF ŞİŞE FOTOSELİ SICK-1042084	3	QTY
5 OMRO-7412-2000-2102	7412-2000-2102 MICROHAWK-MV40 24V.DC	1	QTY

Testing :	Sign :	Date :
Controlling :	Sign :	Date :
Approving :	Sign :	Date :



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7. Assembling of the Equipment

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	No
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?		

Testing :	Sign :	Date :
Controlling :	Sign :	Date :
Approving :	Sign :	Date :



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8. IQ For Electrical and Control Cabinet

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

Test Control	Is it Proper?		
	Yes	No	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?			

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Approving :	Sign :	Date :



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9. Hardware Setup Qualification

IQ for PLC Controller

Equipment Code	Equipment Name	QTY	Unit
5 BECK-EK1100	EK1100 ETHERCAT COUPLER FOR E-BUS TERMINALS	1	QTY
5 BECK-EL1809	EL1809 (16-CHANNEL DIGITAL INPUT TERMINAL	1	QTY
5 BECK-EL2809	EL2809 (16-CHANNEL DIGITAL OUTPUT TERMINAL	1	QTY
5 BECK-EL7221-9014	EL7221-9014 SERVO MOT.TERMINAL 50VDC.7...8A	1	QTY
5 BECK-ZB8610	ZB8610 FAN CARTRIDGE FOR ETHER CAT AND BUS TERMINAL	1	QTY
5 BECK-EL9576	EL9576 FREN DİRENCİ ANAHTARLAMA TERMINALİ	1	QTY

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

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10. Software Installation Qualifications

System Description	
System / Machinery Name	Round Bottle Labelling Machine
Serial Number	M-ETK-A02
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 Specifications

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

Round Bottle Labelling Machine

Test No	Test Step	Acceptance Criteria	Has the Acceptance test met?		Applied Par./Date	Approver Par./Date
1.1	Check the electric connections	1.5 kw mono phase 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 labelling 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 what corresponds to what is specified in the electrical diagram of the labeling machine's electrical system.	The electrical system is correctly labeled.	Yes []	No []		
1.6	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 []		
1.7	Check the conveyor group.	The conveyor should be assembled.	Yes []	No []		
1.8	Check the Helix Group.	Helix format must be suitable for the bottle to be worked.	Yes []	No []		
1.9	Check the sideband group	Side band ready to stroke by turning the bottle it should render.	Yes []	No []		
1.10	Check the Control Unit	Control type PLC +HMI .	Yes []	No []		
1.11	Check the reject group.	Connections must be made appropriately.	Yes []	No []		
1.12	Check that the enclosure door used in the faulty product basket is closed with a key lock.	it can close enclosure door used in faulty product basket with key lock	Yes []	No []		
1.13	Check module height adjustment	It must beconfigured	Yes []	No []		

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Test No	Test Step	Acceptance Criteria	Has the Acceptance test met?	Applied Par./Date	Approver Par./Date
1.14	Check that the label stretch sheets are closed.	The label tensioning sheet must be closed.	Yes [] No []		
1.15	Check the setting of the Markem coding unit	The encoding unit must be set according to the label to work with.	Yes [] No []		
1.16	Check the camera setting.	Camera must be set to see OCR and PHC.	Yes [] No []		
1.17	Check the entry photocell.	The input photocell must be connected.	Yes [] No []		
1.18	Check the output photocell.	The output photocell must be connected.	Yes [] No []		
1.19	Check the start photocell	The start photocell must be connected	Yes [] No []		
1.20	Check the label finish photocells.	The label finish photocell must be connected..	Yes [] No []		
1.21	Check the label stop photocells	The label stop photocell must be connected.	Yes [] No []		
1.22	Check label yes / no sensor	The label yes / no sensor must be connected.	Yes [] No []		
1.23	Check the overturned bottle photocell.	The overturned bottle photocell must be connected.	Yes [] No []		
1.24	Emergency button check	Should be emergency button.	Yes [] No []		



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13. Additional Test

Test No	Test Step	Acceptance Criteria	Has the Acceptance test met?	Applied Par./Date	Approver Par./Date
			Yes [] No []		
			Yes [] No []		
			Yes [] No []		
			Yes [] No []		



	Installation Qualification (IQ)				ABDIIBRAHIM 	
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14. Test Deviation Record/Deficiencies List



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

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 Explanation



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16. Appendix

Drawing No	Add	Explanation
3845-ED.125-22.12.2020-01	PDF File	Round Bottle Labelling Machine Electric Scheme

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17. Release For OQ

There are shortcomings

- [] 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 belirtilmiştir.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 (operational qualification) phase.

18. Test Report Acceptance

Prepared by

Name	Department/Function	Date	Sign

Approved by

Name	Department/Function	Date	Sign