



Industry & Facilities Division
Third Party Inspection Report

Page 1 of 7

INSPECTION REPORT No. FST 25022201	Revision No. 0
<input type="checkbox"/> Initial <input type="checkbox"/> Interim <input checked="" type="checkbox"/> Final <input type="checkbox"/> Resident	
Inspection requested by: TEZMAKSAN ROBOT VE OTOMASYON TEKNOLOJİLERİ SAN. TİC. A.Ş.	
Inspection performed as Recognised Authority: <input type="checkbox"/> Yes, :(Recognition) <input checked="" type="checkbox"/> No	
BV Job Nr: BVGH.IDD.TR.3756078.22.D21.Rev01	

Project: ROBOTIC MACHINE TOOL LOADING UNLOADING SYSTEM (CUBEBOX BLUES DR) CE MARKING TECHNICAL SUPPORT	IPO Ref (If applicable): N/A (BV internal P/o)
BV Client: TEZMAKSAN ROBOT VE OTOMASYON TEKNOLOJİLERİ SAN. TİC. A.Ş.	P/o nr: BVGH.IDD.TR.3756078.22.D21.Rev01 (client to BV)
Manufacturer/Vendor: TEZMAKSAN ROBOT VE OTOMASYON TEKNOLOJİLERİ SAN. TİC. A.Ş.	P/o nr: N/A (client to Manufacturer)
Sub-Vendor (If applicable): N/A	Previous Inspection (If applicable): N/A
Inspection Location: Osmangazi Mah. 2647 Sok. No:15 Esenyurt / Kiraç / İstanbul / Turkey	Next Inspection (If applicable): N/A
Inspection performed on: 25.02.2022	Total No. of Inspection Days: 1 Day

MATERIAL / SUBJECT OF INSPECTION	ITEM / TAG Nr	QTY As per P/O	QTY Offered for inspection
<input type="checkbox"/> Refer to attachment section I instead (Indicate if separate material list is provided in attachment)			
ROBOTIC MACHINE TOOL LOADING UNLOADING SYSTEM MODEL: CUBEBOX BLUES DR	2111DR1008	1	1

A – INSPECTION RESULT		
<input checked="" type="checkbox"/> Satisfactory (Without comments)	<input type="checkbox"/> Satisfactory with comments (Any of trailing Punch or Non Conformity items is still open)	<input type="checkbox"/> Not Satisfactory (NCR raised during the inspection)
Inspection Summary: Ce Marking Technical File Of The Equipment Covered / Described Above Is Inspected According To The Eu Machinery Directive (2006/42/Ec) And Electrical Equipment Designed For Use Within Certain Voltage Limits Directive (2014/35/Eu) Essential Requirements And Applicable Harmonised Standards And Found To Conforming To The Requirements. Note: This Is An Inspection Report And Cannot Be Considered As A Partial Or Complete Risk Assessment Report.		
Open Non Conformities:	<input type="checkbox"/> Yes, details in section F	<input checked="" type="checkbox"/> No
Open Punch List Items:	<input type="checkbox"/> Yes, details in section G	<input checked="" type="checkbox"/> No
Release Note Issued:	<input type="checkbox"/> Yes, number(s): (Release Note number)	<input checked="" type="checkbox"/> No
BV Traceability Stamping:	<input type="checkbox"/> Yes,	<input checked="" type="checkbox"/> No

BV Inspector: Faruk Şamil Tekir (Name and Signature)	BV Coordinator: EMRE HADİMOĞULLARI (Name and Signature)
BV Office: BV Turkey	Inspection Report Date: 28.02.2022
Distribution: <input checked="" type="checkbox"/> CLIENT <input checked="" type="checkbox"/> BV <input checked="" type="checkbox"/> MANUFACTURER <input type="checkbox"/> OTHER:	Attachments Report: <input checked="" type="checkbox"/> Yes, details in section I <input type="checkbox"/> No

INSPECTION REPORT No. FST25022201	Revision No. 0
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B – REFERENCE DOCUMENTATION:

☐ Refer to attachment section I instead

(Indicate if separate document list is provided in attachment)

Title	Reference n°	Rev.	Approval status	Approved by	Date
Robotic Machine Tool Loading Unloading System (Cubebox Blues DR) CE Marking Technical File	CE_TF_CUBEBOX BLUES DR	0	As Final	TEZMAKSAN	1.12.2021
Machinery Directive (MD)	2006/42/EC	-	As Final	EU	2006
Safety of machinery - Safety-related parts of control systems	EN ISO 13849-1	-	As Final	CEN/ISO	2015
Safety of machinery - Positioning of safeguards with respect to the approach speeds of parts of the human body	EN ISO 13855	-	As Final	CEN/ISO	2010
Safety of machinery - Basic concepts, general principles for design	EN ISO 12100	-	As Final	CEN/ISO	2010
Safety of machinery - Electrical equipment of machines- Part 1: General requirements	EN 60204-1	-	As Final	CENELEC/IEC	2018

C – ATTENDEES

Name	Position	Representing
Faruk Samil Tekir	Inspector	Bureau Veritas Turkey
Oguz Kılıç	Mechanical Design Engineer	Tezmaksan

D – MEASURING & TESTING EQUIPMENT USED

☐ Refer to attachment section I instead

(Indicate if separate equipment list is provided in attachment)

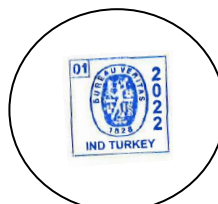
Equipment Type	Equipment Identity n°	Last Calibration Date	Expiry Date
CE Multitester	07270082	12.07.2021	12.07.2022

E – INSPECTION DETAILS

E – General

Robotic machine tool loading unloading system (Cubebox Blues DR) was presented by Tezmaksan Robot VE Otomasyon Teknolojileri San. Tic. A.Ş. and all the physical (mechanical, electrical, etc.) connections were ready.

E1 – Details of Witness (W) & Hold (H) Inspection Points



INSPECTION REPORT No. FST25022201

Revision No. 0

The machine has been inspected visually and statements of the relevant staff (operator and maintenance) were considered. Safety functions of the machine were controlled by the operator using the machine. Details of the activities carried out during the inspection are as follows.

1- CE Marking Technical File Control

CE marking technical file "No= CE_TF_ CUBEBOX BLUES DR" with the following content list was reviewed.

- EC DECLARATION OF CONFORMITY
- INFORMATION ABOUT THE MANUFACTURER
- INFORMATION ABOUT THE PRODUCTS AND PRODUCT SPECIFICATIONS
- INSTRUCTIONS FOR USE
- ELECTRICAL SCHEMES
- MECHANIC SCHEMES
- INFORMATION AND WARNING LABELS
- APPLIED DIRECTIVES AND STANDARDS LIST
- ESSENTIAL REQUIREMENTS ASSESSMENT ACCORDING TO (ANNEX I) OF MACHINERY DIRECTIVE
- EN ISO 12100 & EN ISO 13849-1 & EN ISO 13855 REPORTS
- EN 60204-1 TEST REPORT
- EC CERTIFICATES AND DECLARATION OF CONFORMITIES OF THE PARTS
- TECHNICAL FILE PREPARATION AND KEEPING PROCEDURE

2- Electrical Safety Tests According to EN 60204-1

Below electrical safety tests were carried out according to EN 60204-1:2018 "Safety of machinery - Electrical equipment of machines - Part 1: General requirements".

2.1 Verification of the Continuity of The Protective Bonding Circuit

Test Method: The resistance of each protective bonding circuit between the PE terminal and relevant points that are part of each protective bonding circuit shall be measured with a current between at least 0,2 A and approximately 10 A derived from an electrically separated supply source.

Acceptance Criteria: The resistance measured shall be in the expected range according to the length, the cross-sectional area and the material of the related protective bonding conductor(s)

Test current: 10 A

Test zone	Measured resistance values (Ω)
1	0,116
2	0,107
3	0,094
4	0,065



INSPECTION REPORT No. FST25022201

Revision No. 0

Result: Measured resistance values were not exceed 0.5 Ω . (Passed)

2.2 Insulation Resistance

Test Method: When insulation resistance tests are performed, the insulation resistance measured at 500 V d.c. between the power circuit conductors and the protective bonding circuit shall be not less than 1 M Ω . The test may be made on individual sections of the complete electrical installation.

Acceptance Criteria: Min. 1 M Ω

Test voltage: 500 V D.C.

Test zone	Measured insulation resistance values (M Ω)
L1-PE	575
L2-PE	572
L3-PE	577
N-PE	479

Result: Measured insulation resistance values were greater than 1 M Ω . (Passed)

2.3. Voltage

Test Method: When voltage tests are performed, test equipment in accordance with IEC 61180-2 should be used. The test voltage shall be at a nominal frequency of 50 Hz or 60 Hz. The maximum test voltage shall have a value of twice the rated supply voltage of the equipment or 1000 V, whichever is the greater. The maximum test voltage shall be applied between the power circuit conductors and the protective bonding circuit for a period of approximately 1 s. The requirements are satisfied if no disruptive discharge occurs. Components and devices that are not rated to withstand the test voltage shall be disconnected during testing. Components and devices that have been voltage tested in accordance with their product standards may be disconnected during testing.

Acceptance Criteria: There must not be any TRIP OUT, no disruptive discharge should be occurred.

Test Voltage: 1000 V A.C.

Test zone	TRIP OUT (+, -)
L1-PE	-
L2-PE	-
L3-PE	-
N-PE	-

Result: No collapse of the test voltage or TRIP OUT occurred. (Passed)



INSPECTION REPORT No. FST25022201	Revision No. 0
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Results of Inspection

Electrical safety tests according to EN 60204-1 was completed successfully. robotic machine tool loading unloading system (Cubebox Blues DR) has been inspected visually and statements of the relevant staff (operator and maintenance) were considered. Safety functions of the machine were controlled by the operator using the machine.

CE marking technical file of the robotic machine tool loading unloading system (Cubebox Blues DR) inspected according to the EU Machinery Directive (2006/42/EC) and Electrical Equipment Designed For Use Within Certain Voltage Limits Directive (2014/35/EU) essential requirements and applicable harmonised standards and found to conforming to the requirements.

E2 – Details of Monitoring and Surveillance Patrols

☐ Tick if conducted during the visit

N/A

E3 – Details of Certificates Review

☐ Tick if conducted during the visit

N/A

F – NON CONFORMITIES

☐ Refer to attachment section I instead

(Indicate if separate punch list is provided in attachment)

Item	Description	Status	Raised on	Report Nr.	Closed on	Report Nr.	Comments
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

G – PUNCH LIST ITEMS

☐ Refer to attachment section I instead

(Indicate if separate punch list is provided in attachment)

Item	Description	Status	Raised on	Report Nr.	Closed on	Report Nr.	Comments
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



INSPECTION REPORT No. FST25022201	Revision No. 0
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H – DIGITAL PICTURES



Description: (CUBEBOX BLUES DR)



Description: (CUBEBOX BLUES DR)



Description: (CUBEBOX BLUES DR)



Description: (CUBEBOX BLUES DR)

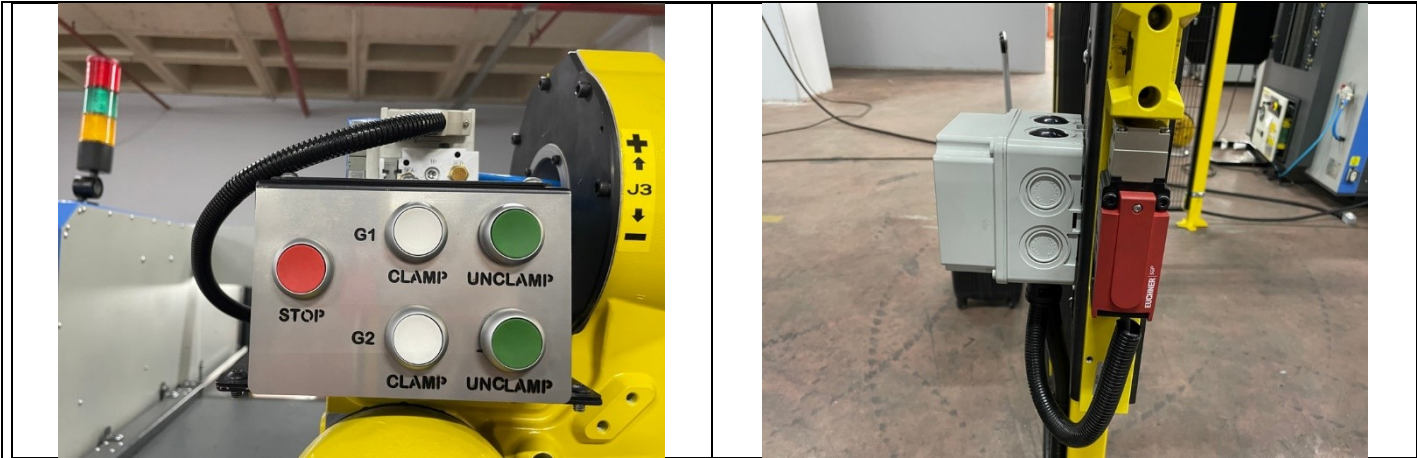


Description: (CUBEBOX BLUES DR)



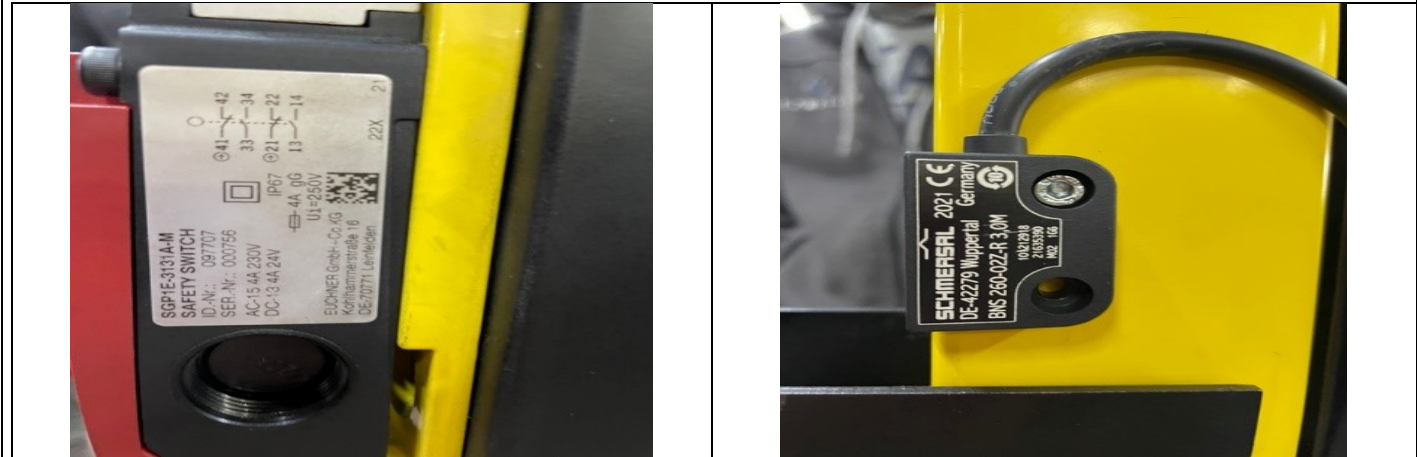
Description: (CUBEBOX BLUES DR)

INSPECTION REPORT No. FST25022201	Revision No. 0
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Description: (CUBEBOX BLUES DR)

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Description: (CUBEBOX BLUES DR)

Description: (CUBEBOX BLUES DR)

I – ATTACHMENTS			
Item	Attachment Name	Total Pages	Description
-	-	-	-
END OF REPORT			

