



# LISTING REPORT/INSPECTION PROCEDURE

Shenzhen Yuejiang Technology Co., Ltd.  
Procort order #: SH-CERT210401097

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Issued: 29 July 2021  
Revised: None

**620 Old Peachtree Road NW, Suite 100, Suwanee, GA 30024 USA (770) 570-1800**

Test Report Number: SHES210300359261

A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of  
STANDARD FOR SAFETY - Robots and Robotic Equipment, UL 1740-2018 (R2019)  
Standard for Electrical Standard for Industrial Machinery, NFPA 79:2018 Edition Dated 30/11/2017 and  
Industrial control equipment, CAN/CSA C22.2 No. 14-2018, Dated March 2018.

<b>Issuing Laboratory</b> .....	SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Address.....	No. 588 West Jindu Road, Songjiang District, Shanghai, China
<b>Applicant (Certificate Holder)</b> .....	Shenzhen Yuejiang Technology Co., Ltd.
Address.....	Room 1003, Building 2, Chongwen Park, Nanshan iPark, No.3370, Liuxian Blvd, Fuguang Community, Taoyuan Street, Nanshan District  Shenzhen City, 518071, China
Contact Details .....	Jerry Liu  Phone: +86 4008007266  Email: info@dobot.cc
<b>Manufacturer</b> .....	Shenzhen Yuejiang Technology Co., Ltd.
Address.....	Room 1003, Building 2, Chongwen Park, Nanshan iPark, No.3370, Liuxian Blvd, Fuguang Community, Taoyuan Street, Nanshan District  Shenzhen City, 518071, China
Contact Details .....	Jerry Liu  Phone: +86 4008007266  Email: info@dobot.cc
<b>Factory 1</b> .....	Shenzhen JingQuanHua & Everrise Intelligent Electric Co., Ltd.
Address.....	JingQuanHua science and technology industrial park, No.10, pingqiao road, pingdi street, longgang district,  Shenzhen, Guangdong, China
Contact Details .....	Jerry Liu  Phone: +86 4008007266  Email: info@dobot.cc

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<b>Product Type</b> .....	DOBOT CR3, DOBOT CR5, DOBOT CR10, DOBOT CR16 DOBOT CC162
<b>Trade Mark</b> .....	DOBOT
<b>Product description</b> .....	This is a collaborative robot system contains manipulator, electrical cabinet, 3-position enabling device and emergency stop device.  DOBOT CR3, DOBOT CR5, DOBOT CR10, DOBOT CR16 are names of manipulators, DOBOT CC162 is the name of electrical cabinet (control cabinet). DOBOT CC162 is powering the manipulator (one of DOBOT CR3 or DOBOT CR5 or DOBOT CR10 or DOBOT CR16) and control the motion of manipulator.  This system is not containing End-effector.  Note: If there is no additional description, a name of "DOBOT CR10" or "CR10" always means a robot system that contains manipulator "DT-CR-6R100-00I", electrical cabinet "DT-CR-CC162-00I", 3-position enabling device and emergency stop device. This description is applicable to other models.
<b>Model Number(s)</b> .....	Manipulator models: DT-CR-6R030-00I, DT-CR-6R050-00I, DT-CR-6R100-00I, DT-CR-6R160-00I.  Electrical cabinet model: DT-CR-CC162-00I
<b>Model Differences</b> .....	All models are series models, there are in the same theory in motion and control, only difference at product name, model number, dimension and power/payload.
<b>Electrical Ratings</b> .....	DT-CR-6R030-00I: Input 48 VDC, FLA 4.4 A; DT-CR-6R050-00I: Input 48 VDC, FLA 6.3 A; DT-CR-6R100-00I: Input 48 VDC, FLA 9.4 A; DT-CR-6R160-00I: Input 48 VDC, FLA 8.4 A; DT-CR-CC162-00I: Input: 100-240 V 50/60 Hz Single phase, SCCR: 5 kA, Output: 48 VDC.
<b>Other Ratings</b> .....	DOBOT CR3: Payload 3 kg, Max. reach 620 mm; DOBOT CR5: Payload 5 kg, Max. reach 900 mm; DOBOT CR10: Payload 10 kg, Max. reach 1300 mm; DOBOT CR16: Payload 16 kg, Max. reach 1000 mm;
<b>Accessories</b> .....	N/A
<b>Testing Laboratory</b> .....	SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
<b>Address</b> .....	No. 588 West Jindu Road, Songjiang District, Shanghai, China
<b>Date of receipt of test item</b> .....	2021-03-18
<b>Date(s) of performance of tests</b> .....	2021-03-18 to 2021-05-24
<b>Conditions of Acceptability</b> .....	N/A

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### CO-LISTING PAGE

#### **CO-LISTING APPLICANT I**

Applicant's Name: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Primary Contact: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

#### **Product Correlation:**

Basic Models	Co-Listed Models	Note any differences between Basic and Co-Listed models
1.		
2.		
3.		

#### **CO-LISTING APPLICANT II**

Applicant's Name: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Primary Contact: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

#### **Product Correlation:**

Basic Models	Co-Listed Models	Note any differences between Basic and Co-Listed models
1.		
2.		
3.		

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### GENERAL INFORMATION

#### **Components**

Components used in the covered products must be those outlined in the latest edition of the Listing Report.

#### **Listing Marking**

This report along with a valid certificate authorizes the certificate holder to use the Listing Marking of SGS North America only on products covered by this report and in accordance with the Product Certification Program Policy Handbook.

#### **Production Line Tests**

Manufacturing and Production Tests shall be performed as required by this Listing Report.

#### **Responsibility of the Manufacturer and Factory**

- 1) It is the manufacturer and factory's responsibility to restrict the use of markings which reference SGS to those products which are found by the manufacturers own inspection to comply with the product description in this report. This includes reference to SGS directly and/or indirectly.
- 2) During hours in which the factory is in operation, the SGS inspector shall be given unlimited access to any portion of the premises where the product and/or parts are being produced, assembled, inspected and labeled; and to the test area designated for routine tests. The SGS inspector shall be permitted to inspect and subject the products to prescribed tests prior to shipment any product bearing or intended to bear marking referencing SGS.
- 3) The factory shall provide all required testing equipment and facilities including trained personnel for conducting all routine tests that are to be performed at the factory. These shall be available when needed so that the inspection work can proceed without delays.

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### **Follow up Inspections**

As part of the SGS Follow-Up inspection, it is required that an inspector periodically visit the factory location(s) and select for examination and/or testing, the most recent production sample of the product covered in the Listing Report.

### **SGS Inspector**

- 1) A product which is found by the SGS inspector to have features which make it unacceptable to bear marking referencing SGS shall be corrected if the listing marking is to be used. The inspector shall carefully check additional production for such features until conditions are considered normal.
- 2) A product which does not comply with the provisions of the listing report shall have all reference to SGS removed. If the rejection of the product is questioned by the factory representative, it may be put on hold in separate area of location pending appeal. The factory shall satisfy the inspector that all marks referencing SGS are removed from the rejected material or finished product. Factory shall destroy product and or turn over to inspector for destruction.
- 3) All discrepancies between the product and the listing report shall be immediately stated to the attention of the factory representative. This shall be noted in the follow-up inspection report as a discrepancy.

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**GENERAL CONSTRUCTIONAL REQUIREMENTS TO BE VERIFIED**

Construction Details - This section specifies construction and component details in addition to the critical components table which are to be verified during factory follow-up inspections.

**CORROSION PROTECTION:**

All metal parts are suitably protected against corrosion by painting, plating or the equivalent.

**SHARPNESS OF EDGES:**

All edges and corners of the frame, enclosure, guards, etc. exposed during normal use or maintenance or which may be contacted by internal wiring are smooth and well-rounded.

**COMPONENTS MOUNTING:**

All components are securely mounted and prevented from rotation by a means other than friction. For example, components may be mounted by two screws or a single screw and locator pin. Stem mounted components may be mounted in keyed openings, openings with flat sides or provided with a lock washer on the stem between the component body and its mounting surface.

**INTERNAL WIRING:**

All internal wiring is Recognized components provided with insulation with a voltage rating no less than the rated voltage of the product. All wiring is reliably routed away from moving parts by use of baffles, lead lengths and/or wire ties. All soldered connections are made mechanically secure before soldered. Manipulator is connected to electrical cabinet by a multi-cable.

**POWER INLET**

This is a collaborative robot system is powering by 100-240 V 50/60 Hz Single phase electricity power. This system contains manipulator, electrical cabinet, 3-position enabling device with emergency stop button.

DOBOT CR3, DOBOT CR5, DOBOT CR10, DOBOT CR16 are names of manipulators, DOBOT CC162 is the name of electrical cabinet (control cabinet). DOBOT CC162 is powering the manipulator (one of DOBOT CR3 or DOBOT CR5 or DOBOT CR10 or DOBOT CR16) and control the motion of manipulator.

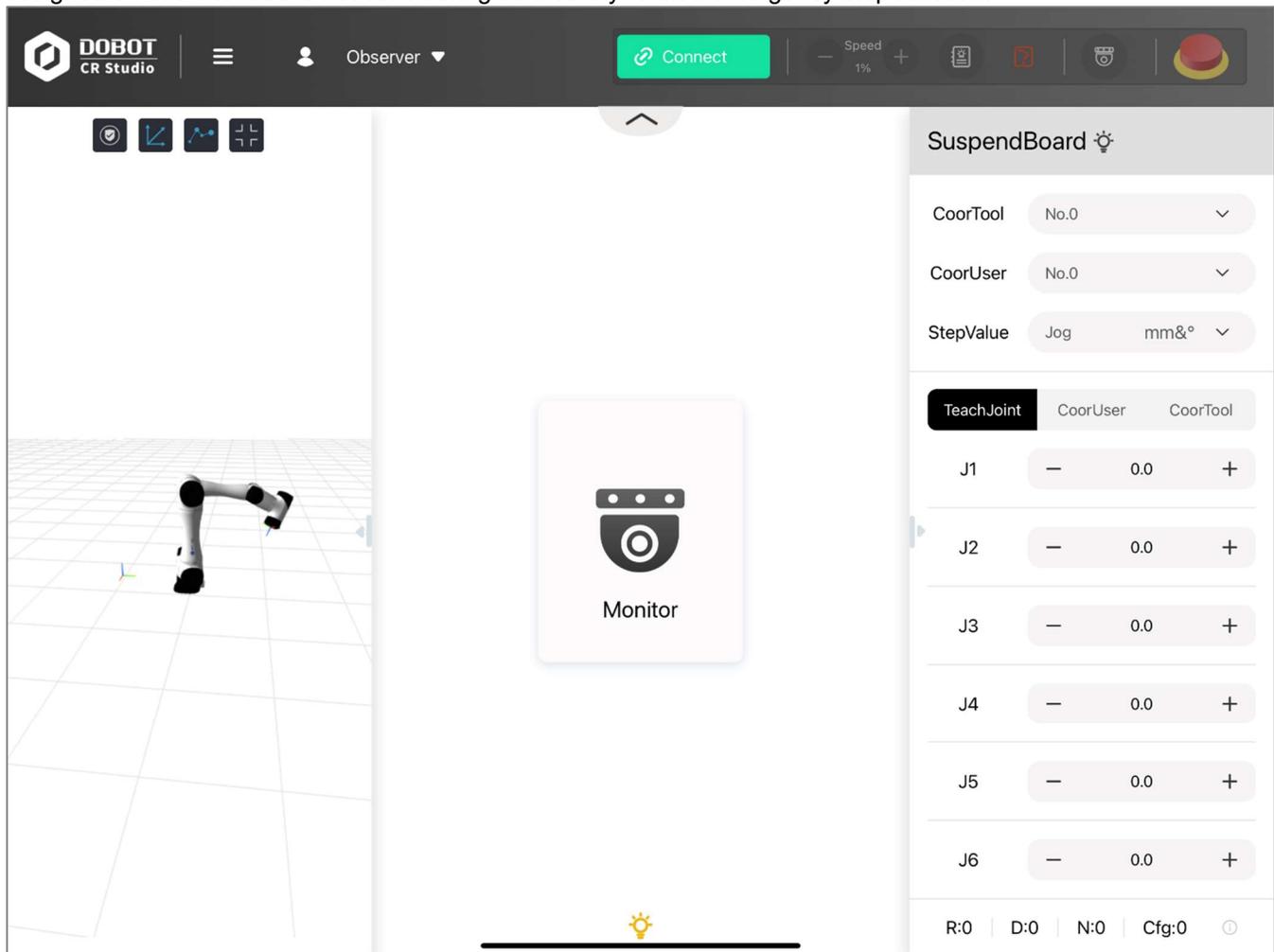
This system is not containing End-effector.

If there is no additional description, a name of "DOBOT CR10" or "CR10" always means a robot system that contains manipulator "DT-CR-6R100-001", electrical cabinet "DT-CR-CC162-001", 3-position enabling device and emergency stop device. This description is applicable to other models.

## USER INTERFACE

Users can download and install an application to their computer, smartphone or tablet from DOBOT's website. Then connect the controlling device to the robot system by the local Wi-Fi hotspot on control cabinet. User can control, programing and setting the robot system by this controlling device.

The UI showing below is the app version of ver2.1.0 on iPad. The button colored red with yellow background designed on this interface is not considering as a safety related emergency stop function.



User can also install a desktop version software on their PC to control, programing and setting the robot system by local Ethernet or local Wi-Fi hotspot.

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### ROUTINE TESTS FOR MANUFACTURING AND PRODUCTION

The manufacturer shall perform the following Manufacturing and Production Tests on 100% of equipment produced which has both hazardous live parts and accessible conductive parts

#### Required Tests

Dielectric voltage withstand test  
Grounding continuity test

#### Dielectric voltage withstand test

Each robot or robotic equipment intended for connection to a nominal 120 V or higher voltage circuit shall withstand without electrical breakdown, the application of an alternating-current potential at a frequency within the range of 40 – 70 Hz or a direct-current potential between the primary wiring, including connected components, and accessible dead metal parts that are likely to become energized.

The production-line test shall be in accordance with either Condition A (60 seconds) or B (1 second) specified as below:

Equipment Voltage Rating (Maximum)	For ac Dielectric	For dc Dielectric	Time (seconds)
Condition A (60 seconds):			
250 V or less:	2V+1000	1400	60
More than 250 V:	2V+1000	2.8V+1000	60
Condition B (1 second – Plus 1, Minus 0 seconds):			
250 V or less:	2V+1200	1700	1 (Plus 1, Minus 0 seconds)
More than 250 V:	2.4V+1200	3.4V+1700	1 (Plus 1, Minus 0 seconds)

#### Grounding continuity test

The ground path resistance shall not exceed 0.1 ohms when measured from the grounding means of the equipment of the conductive part that is required to be grounded. An Ohmmeter used for this measurement shall have a minimum resolution and accuracy to measure 0.01 ohms. Test equipment shall be a minimum current of 20 A, derived from an ac or dc source with a no-load voltage not exceeding 12 V

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### **PHOTOGRAPHS**

External View of DT-CR-6R030-001

PHOTO NO. 1



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External View of DT-CR-6R050-001

PHOTO NO. 2



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External View of DT-CR-6R100-001

PHOTO NO. 3



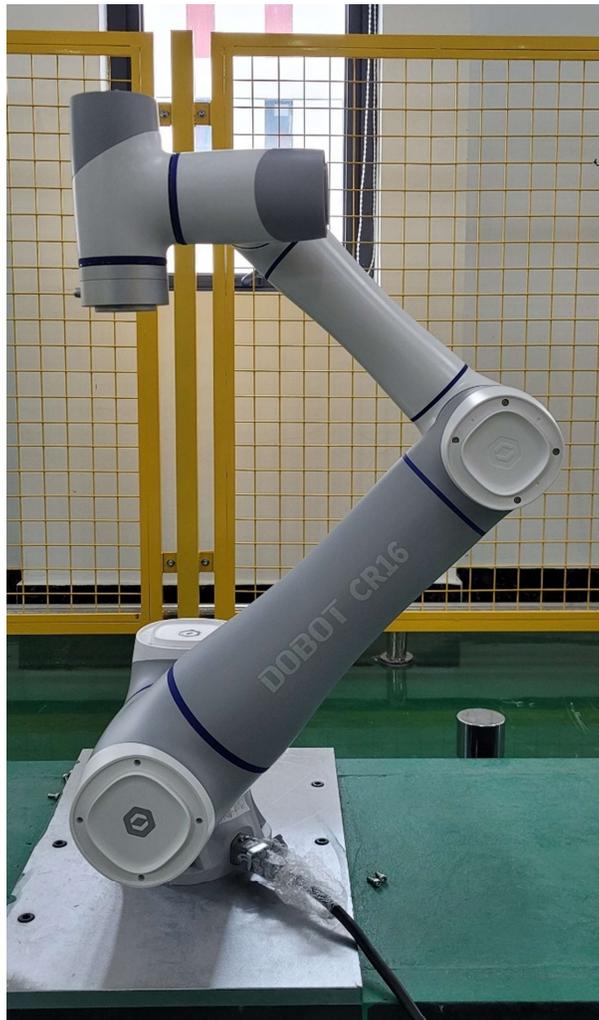
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External View of DT-CR-6R160-001

PHOTO NO. 4



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External view of electrical cabinet

PHOTO NO. 5



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Inner view of cabinet

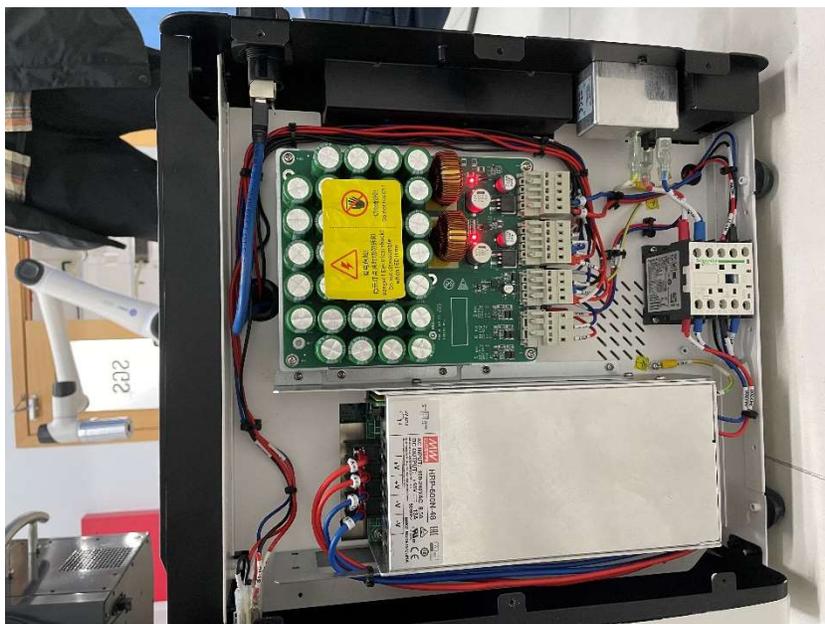


PHOTO NO. 6

Inner view of cabinet

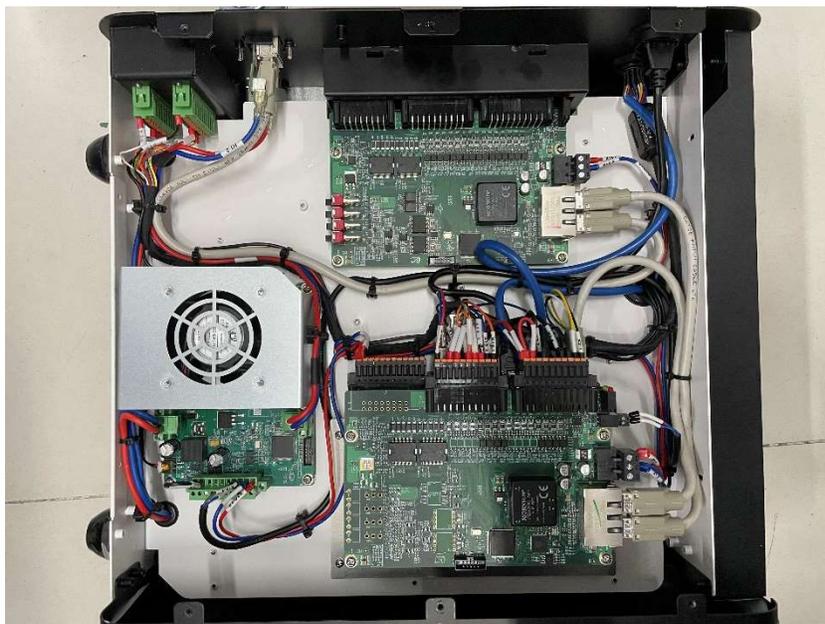


PHOTO NO. 7

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### CRITICAL COMPONENTS

The following components are considered “critical” in terms of this certification and must be verified during factory inspections. No substitutions or alternate components are allowed unless specifically as stated in this report.

DT-CR-CC162-001:

No.	Code in Diagram	Component name	Manufacturer/trademark	Type/model	Technical Data	Standard	Certificate
1.	U1	EMI Filter	SCHaffner	FN283-10-06	220V/10A	UL1281	E64388
2.	K1	Contactora	Schneider	LP1K0901BD3	230V/2.2KW	UL508	E164862
3.	V1	SMPS	MEAN WELL	LRS-150F-24	230V/150W	UL62368-1	E183223
4.	V2	SMPS	MEAN WELL	HRP-600N-48	230V/600W	UL62368-1	E183223
5.	S1	Switch	ONPOW	LAS1-AGQ-22ZDT/B24V/S	24V, 2NO2NC	UL508, CSA C22.2 No.14	E254023
6.	-	Emergency stop button	ONPOW	LASO-K-02TSA	24V, 2NC	UL508, CSA C22.2 No.14	E254023
7.	A1	AC Detection PCBA	DOBOT	2001016302	24V	UL796	E305654
8.	A2	General IO PCBA	DOBOT	2001013103	24V	UL796	E305654
9.	A3	Safety PCBA	DOBOT	2001020101 2001020200	24V	UL796	E305654
10.	U2	Socket	WEIPU	SY2112/S15	24V	-	-
11.	A4	Controller PCBA	DOBOT	2001019500	24V	UL796	E305654
12.	H2	RJ45 Port	WEIPU	RJ45F71-2	-	-	-
13.	H3	USB Port	CNLINKO	YU-USB2-JSX-01-100	-	UL2441	E365870
14.	XC1	DB9 Port	JUXIN	DB9-2620	5V	-	-
15.	A5	Energy Supply PCBA	DOBOT	2001012804	24V	UL796	E305654
16.	M1	Fan	KECHANG	C6010H24BPLPX-11	24V	UL507	E208866
17.	H1	Heavy Duty Connector	Harting	10120052001, 10120051004, 09455451560, 09455250040, 09200035425	-	-	E102079
18.	-	Heavy Duty Wire	TAIYO	DWC-CD18739C	48V	UL758	E176097
19.	-	Wireless USB Adapter	Tenda	U2	-	-	-

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Shenzhen Yuejiang Technology Co., Ltd.  
 Procert order #: SH-CERT210401097

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 Issued: 29 July 2021  
 Revised: None

DT-CR-6R030-00I:

No.	Code Diagram	in	Component name	Manufacturer/trademark	Type/model	Technical Data	Standard	Certificate
1.	H1		Heavy Duty Connector	Harting	10120052001, 10120051004, 09455451560, 09455250040, 09200035425	-	-	E102079
2.	A1,A2		Power_20Axis PCBA	DOBOT	2001017100	48V	UL 61800-5-1	SGS RT No.: GZES2104 01641201
3.	A3		Power_17Axis PCBA	DOBOT	2001017200	48V	UL 61800-5-1	SGS RT No.: GZES2104 01641201
4.	A4-A6		Power_14Axis PCBA	DOBOT	2001011505	48V	UL 61800-5-1	SGS RT No.: GZES2104 01641201
5.	A7-A12		Control_Axis PCBA	DOBOT	2001011405	5V	UL796	E305654
6.	A27		Key PCBA	DOBOT	2001012902	5V	UL796	E305654
7.	A29		Terminal IO PCBA	DOBOT	2001013002	48V	UL796	E305654
8.	M1,M2		Motor	Zhenzheng	ZHR07BG-S30-0-0-D26-C44020	48V/300W	UL 1004-1	Test with appliance
9.	M3		Motor	Zhenzheng	ZHR05B1-S30-0-0-D19-C44020	48V/200W	UL 1004-1	Test with appliance
10.	M4-M6		Motor	Zhenzheng	ZHR05BA-S30-H-D17-C44020	48V/100W	UL 1004-1	Test with appliance
11.	H1		Socket	Lumberg	RSMEDG8	24V		E315587
12.	B1-B6		Keep Solenoid	Wisdom	SH-OP0315S-006	5V	-	-
13.	E1,E2 E21,E22 E41,E42 E61,E62 E81,E82 E101,E102		Encoder PCBA	DOBOT	2001015600	5V	UL796	E305654
14.	K1		Navigation Switches	TACLEX	SF39BA	12V	-	-
15.	-		Plug	Lumberg	RKMV 8-354/2 M	24V		E315587

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DT-CR-6R050-001:

No.	Code in Diagram	Component name	Manufacturer/trademark	Type/model	Technical Data	Standard	Certificate
1.	H1	Heavy Duty Connector	Harting	10120052001, 10120051004, 09455451560, 09455250040, 09200035425	-	-	E102079
2.	A1-A3	Power_25Axis PCBA	DOBOT	2001011605	48V	UL 61800-5-1	SGS RT No.: GZES2104 01641201
3.	A4-A6	Power_14Axis PCBA	DOBOT	2001011505	48V	UL 61800-5-1	SGS RT No.: GZES2104 01641201
4.	A7-A12	Control_Axis PCBA	DOBOT	2001011405	5V	UL796	E305654
5.	A27	Key PCBA	DOBOT	2001012902	5V	UL796	E305654
6.	A29	Terminal IO PCBA	DOBOT	2001013002	48V	UL796	E305654
7.	M1-M3	Motor	Zhenzheng	ZHR115G-S30-H-D28-C44020	48V/600W	UL 1004-1	Test with appliance
8.	M4-M6	Motor	Zhenzheng	ZHR05BA-S30-H-D17-C	48V/100W	UL 1004-1	Test with appliance
9.	H1	Socket	Lumberg	RSMEDG8	24V	-	E315587
10.	B1-B6	Keep Solenoid	Wisdom	SH-OP0315S-006	5V	-	-
11.	E1,E2 E21,E22 E41,E42 E61,E62 E81,E82 E101,E102	Encoder PCBA	DOBOT	2001015600	5V	UL796	E305654
12.	K1	Navigation Switches	TACLEX	SF39BA	5V	-	-
13.	-	Plug	Lumberg	RKMV 8-354/2 M	24V	-	E315587

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Shenzhen Yuejiang Technology Co., Ltd.  
 Procert order #: SH-CERT210401097

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 Issued: 29 July 2021  
 Revised: None

DT-CR-6R100-00I, DY-CR-6R160-00I:

No.	Code in Diagram	Component name	Manufacturer/trademark	Type/model	Technical Data	Standard	Certificate
1.	H1	Heavy Duty Connector	Harting	10120052001, 10120051004, 09455451560, 09455250040. 09200035425	-	-	E102079
2.	A1,A2	Power_32Axis PCBA	DOBOT	2001020000	48V	UL 61800-5-1	SGS RT No.: GZES2104 01641201
3.	A3	Power_25Axis PCBA	DOBOT	2001011605	48V	UL 61800-5-1	SGS RT No.: GZES2104 01641201
4.	A4-A6	Power_17Axis PCBA	DOBOT	2001011405	48V	UL 61800-5-1	SGS RT No.: GZES2104 01641201
5.	A7-A12	Control_Axis PCBA	DOBOT	2001011405	5V	UL796	E305654
6.	A27	Key PCBA	DOBOT	2001012902	5V	UL796	E305654
7.	A29	Terminal IO PCBA	DOBOT	2001013002	48V	UL796	E305654
8.	M1,M2	Motor	Zhenzheng	ZHR115C-S30-0-0-D33-C44020	48V/1000W	UL 1004-1	Test with appliance
9.	M3	Motor	Zhenzheng	ZHR115G-S30-H-D28-C44020	48V/600W	UL 1004-1	Test with appliance
10.	M4-M6	Motor	Zhenzheng	ZHR05B1-S30-0-0-D19-C44020	48V/200W	UL 1004-1	Test with appliance
11.	H1	Socket	Lumberg	RSMEDG8	24V	-	E315587
12.	B1-B6	Keep Solenoid	Wisdom	SH-OP0315S-006	5V		
13.	E1,E2 E21,E22 E41,E42 E61,E62 E81,E82 E101,E102	Encoder PCBA	DOBOT	2001015600	5V	UL796	E305654
14.	K1	Navigation Switches	TACLEX	SF39BA	5V	-	-
15.	-	Plug	Lumberg	RKMV 8-354/2 M	24V	-	E315587

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## LISTING REPORT/INSPECTION PROCEDURE

Shenzhen Yuejiang Technology Co., Ltd.  
Procort order #: SH-CERT210401097

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Issued: 29 July 2021  
Revised: None

### ANNUAL RE-TESTING OF UNLISTED COMPONENTS

The unlisted components on this page are uncontrolled (not falling under a third party certification program) and require periodic retesting and/or evaluation.

**Note to SGS Follow Up Inspector: The inspection office will notify you in writing when these components must be selected and sent to the Lab indicated below for re-evaluation.**

Ship the samples to: N/A

The unlisted components covered by this report and are required to be re-tested/evaluated are shown in the following table:

PHOTO #	ITEM #	DESCRIPTION	MFR	TYPE/ MODEL	RATING
/	/	/	/	/	/
<b>MATERIAL LIST</b>					
<b>Component</b>	<b>Manufacture</b>	<b>Type/Model</b>	<b>Information</b>		
/	/	/	/		
<b>VERIFICATION PROCESS</b>					
<b>Test Standard:</b>	/				
<b>Frequency of Testing:</b>	/	<b>No. of Test Samples:</b>	/		
<b>Clause No.</b>	<b>TEST</b>	<b>PARAMETERS</b>			
/	/	/			

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**MARKINGS**

The following markings are required:  
 For DOBOT CR3:

**DOBOT DOBOT CR3**

中国·深圳市越疆科技有限公司  
 深圳市南山区桃源街道福光社区留仙大道3370号南山智园崇文园2号楼1003  
 Shenzhen Yuejiang Technology Co.,Ltd.China  
 Room 1003, Building 2, Chongwen Park, Nanshan iPark,  
 No. 3370, Liuxian Blvd,Fuguang Community,Taoyuan  
 Street, Nanshan District, Shenzhen

型号/MODEL	DT-CR-6R030-001
重量/WEIGHT	16.5 kg
防护等级/ENCLOSURE TYPE	IP54
最大负载/MAX.PAYLOAD	3 kg
臂长/MAX.REACH	620 mm
额定电压/RATED VOLTAGE	DC 48V
满载电流/FULL LOAD CURRENT	4.4 A
最大关节电流/MAX.MOTOR FLA	2.8 A

TILVA 800864

PRODUCTION DATE: 2020.11

SERIAL NO.: CR3-4025-0731

SGS CE TILVA KCS

**DOBOT DOBOT CC162**

中国·深圳市越疆科技有限公司  
 深圳市南山区桃源街道福光社区留仙大道3370号南山智园崇文园2号楼1003  
 Shenzhen Yuejiang Technology Co.,Ltd.China  
 Room 1003, Building 2, Chongwen Park, Nanshan iPark,  
 No. 3370, Liuxian Blvd,Fuguang Community,Taoyuan Street,  
 Nanshan District, Shenzhen

型号/MODEL	DT-CR-CC162-001
重量/WEIGHT	12 kg
防护等级/ENCLOSURE TYPE	IP20
最大功率/MAXIMUM POWER	650 W
输入电压/INPUT VOLTAGE	1PHASE, AC 100V~240V
输入频率/INPUT FREQUENCY	50/60 Hz
短路电流额定值/SCCR	5 kA

TILVA 800864

PRODUCTION DATE: 2021.03

SERIAL NO.: CC162-03-4118-0731

TILVA CE TILVA SGS KCS

For DOBOT CR5:

**DOBOT DOBOT CR5**

中国·深圳市越疆科技有限公司  
 深圳市南山区桃源街道福光社区留仙大道3370号南山智园崇文园2号楼1003  
 Shenzhen Yuejiang Technology Co.,Ltd.China  
 Room 1003, Building 2, Chongwen Park, Nanshan iPark,  
 No. 3370, Liuxian Blvd,Fuguang Community,Taoyuan Street,  
 Nanshan District, Shenzhen

型号/ MODEL	DT-CR-6R050-001
重量/WEIGHT	25 kg
防护等级/ENCLOSURE TYPE	IP54
最大负载/MAX.PAYLOAD	5 kg
臂长/MAX.REACH	900 mm
额定电压/RATED VOLTAGE	DC 48V
满载电流/FULL LOAD CURRENT	6.3 A
最大关节电流/MAX.MOTOR FLA	3.2 A

TILVA 800864

PRODUCTION DATE: 2020.11

SERIAL NO.: CR5-4025-0731

TILVA CE TILVA SGS KCS

**DOBOT DOBOT CC162**

中国·深圳市越疆科技有限公司  
 深圳市南山区桃源街道福光社区留仙大道3370号南山智园崇文园2号楼1003  
 Shenzhen Yuejiang Technology Co.,Ltd.China  
 Room 1003, Building 2, Chongwen Park, Nanshan iPark,  
 No. 3370, Liuxian Blvd,Fuguang Community,Taoyuan Street,  
 Nanshan District, Shenzhen

型号/MODEL	DT-CR-CC162-001
重量/WEIGHT	12 kg
防护等级/ENCLOSURE TYPE	IP20
最大功率/MAXIMUM POWER	650 W
输入电压/INPUT VOLTAGE	1PHASE, AC 100V~240V
输入频率/INPUT FREQUENCY	50/60 Hz
短路电流额定值/SCCR	5 kA

TILVA 800864

PRODUCTION DATE: 2021.03

SERIAL NO.: CC162-05-4118-0731

TILVA CE TILVA SGS KCS

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Shenzhen Yuejiang Technology Co., Ltd.  
 Procert order #: SH-CERT210401097

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 Issued: 29 July 2021  
 Revised: None

For DOBOT CR10:

**DOBOT CR10**

中国·深圳市越疆科技有限公司  
 深圳市南山区桃源街道福光社区留仙大道3370号南山智园崇文园区2号楼1003  
 Shenzhen Yuejiang Technology Co.,Ltd China  
 Room 1003, Building 2, Chongwen Park, Nanshan iPark,  
 No. 3370, Liuxian Blvd, Fuguang Community, Taoyuan Street,  
 Nanshan District, Shenzhen

型号/MODEL	DT-CR-6R100-001
重量/WEIGHT	40 kg
防护等级/ENCLOSURE TYPE	IP54
最大负载/MAX.PAYLOAD	10 kg
臂长/MAX.REACH	1300 mm
额定电压/RATED VOLTAGE	DC 48V
满载电流/FULL LOAD CURRENT	9.4 A
最大关节电流/MAX.MOTOR FLA	4.23 A

PRODUCTION DATE: 2020.11

SERIAL NO.: CR10-4025-0731

**DOBOT CC162**

中国·深圳市越疆科技有限公司  
 深圳市南山区桃源街道福光社区留仙大道3370号南山智园崇文园区2号楼1003  
 Shenzhen Yuejiang Technology Co.,Ltd.China  
 Room 1003, Building 2, Chongwen Park, Nanshan iPark,  
 No. 3370, Liuxian Blvd, Fuguang Community, Taoyuan Street,  
 Nanshan District, Shenzhen

型号/MODEL	DT-CR-CC162-001
重量/WEIGHT	12 kg
防护等级/ENCLOSURE TYPE	IP20
最大功率/MAXIMUM POWER	650 W
输入电压/INPUT VOLTAGE	1PHASE, AC 100V~240V
输入频率/INPUT FREQUENCY	50/60 Hz
短路电流额定值/SCCR	5 kA

PRODUCTION DATE: 2021.03

SERIAL NO.: CC162-16-4118-0731

For DOBOT CR16:

**DOBOT CR16**

中国·深圳市越疆科技有限公司  
 深圳市南山区桃源街道福光社区留仙大道3370号南山智园崇文园区2号楼1003  
 Shenzhen Yuejiang Technology Co.,Ltd China  
 Room 1003, Building 2, Chongwen Park, Nanshan iPark,  
 No. 3370, Liuxian Blvd, Fuguang Community, Taoyuan Street,  
 Nanshan District, Shenzhen

型号/MODEL	DT-CR-6R160-001
重量/WEIGHT	40 kg
防护等级/ENCLOSURE TYPE	IP54
最大负载/MAX.PAYLOAD	16 kg
臂长/MAX.REACH	1000 mm
额定电压/RATED VOLTAGE	DC 48V
满载电流/FULL LOAD CURRENT	8.4 A
最大关节电流/MAX.MOTOR FLA	3.7 A

PRODUCTION DATE: 2021.03

SERIAL NO.: CR16-4118-0731

**DOBOT CC162**

中国·深圳市越疆科技有限公司  
 深圳市南山区桃源街道福光社区留仙大道3370号南山智园崇文园区2号楼1003  
 Shenzhen Yuejiang Technology Co.,Ltd.China  
 Room 1003, Building 2, Chongwen Park, Nanshan iPark,  
 No. 3370, Liuxian Blvd, Fuguang Community, Taoyuan Street,  
 Nanshan District, Shenzhen

型号/MODEL	DT-CR-CC162-001
重量/WEIGHT	12 kg
防护等级/ENCLOSURE TYPE	IP20
最大功率/MAXIMUM POWER	650 W
输入电压/INPUT VOLTAGE	1PHASE, AC 100V~240V
输入频率/INPUT FREQUENCY	50/60 Hz
短路电流额定值/SCCR	5 kA

PRODUCTION DATE: 2021.03

SERIAL NO.: CC162-10-4118-0731

Remark:

- Q mark logo shall not be less than 5mm in height.

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**WARNING LABELS**

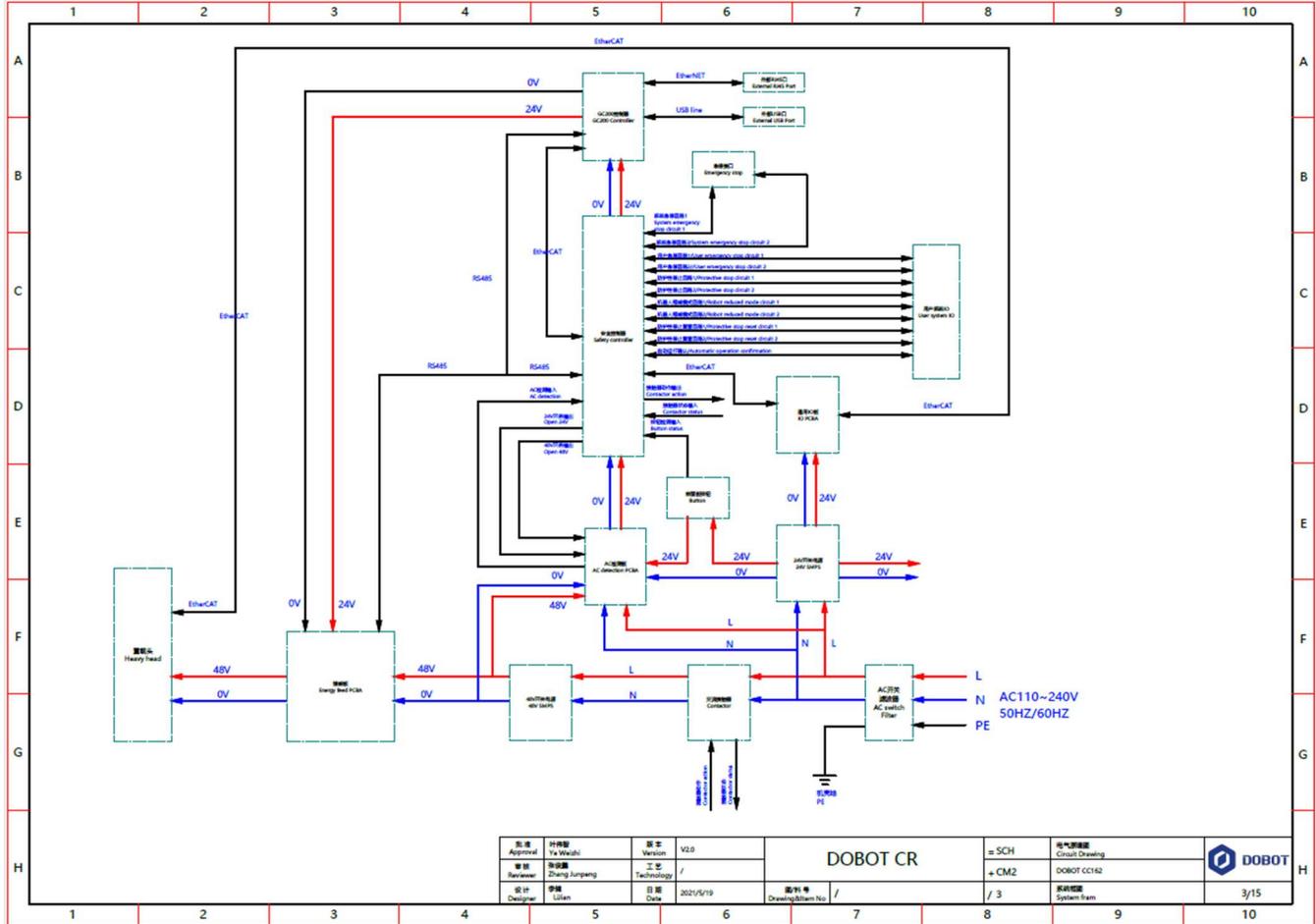
Contents of warning label for DOBOT CR3, DOBOT CR5, DOBOT CR10, DOBOT CR16 as below, these warning labels are placed in electrical cabinet (Name: DOBOT CC162, Model number: DT-CR-CC162-001).



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## ILLUSTRATIONS 1

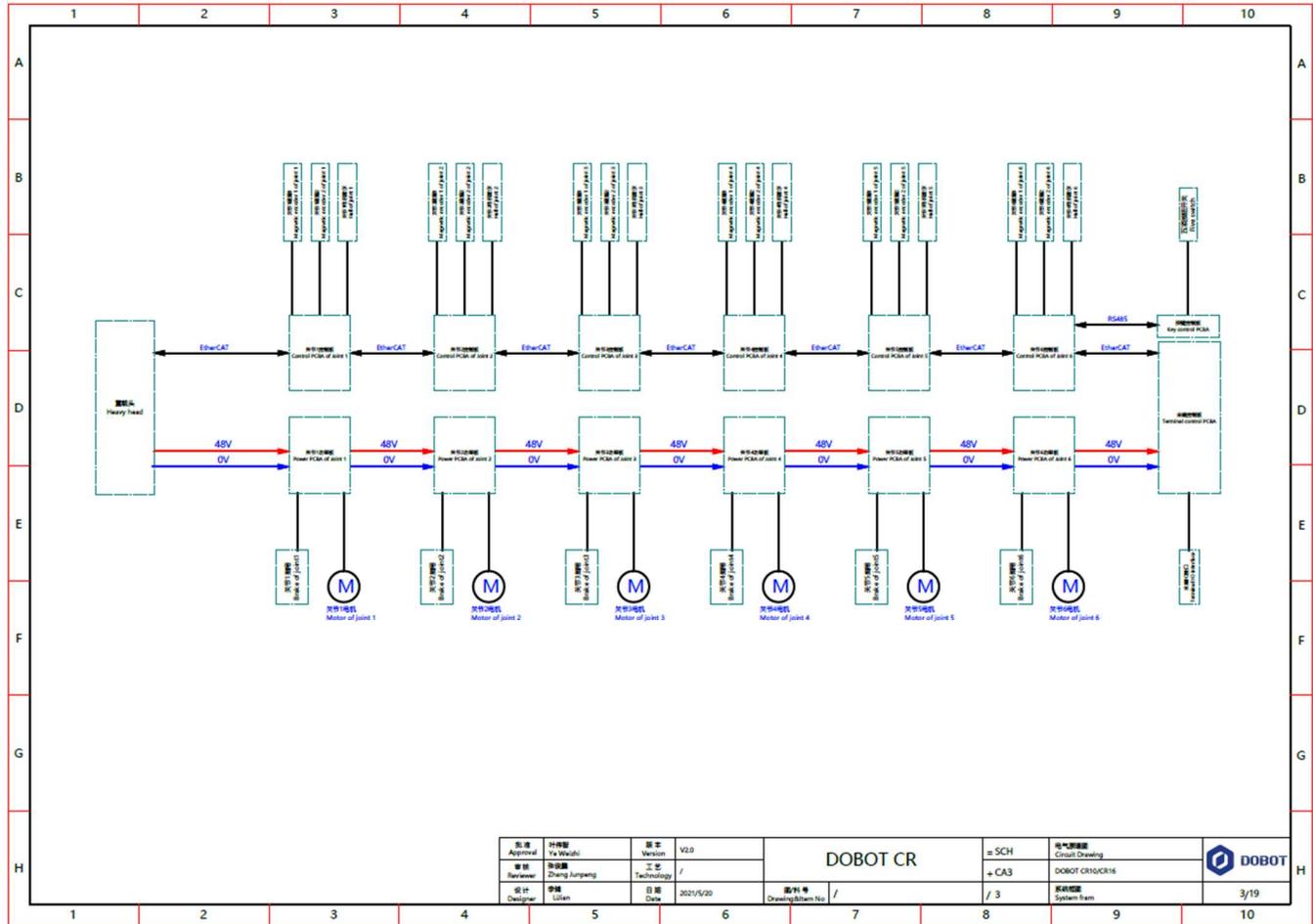
Electrical block diagram of Electrical cabinet:



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## ILLUSTRATIONS 2

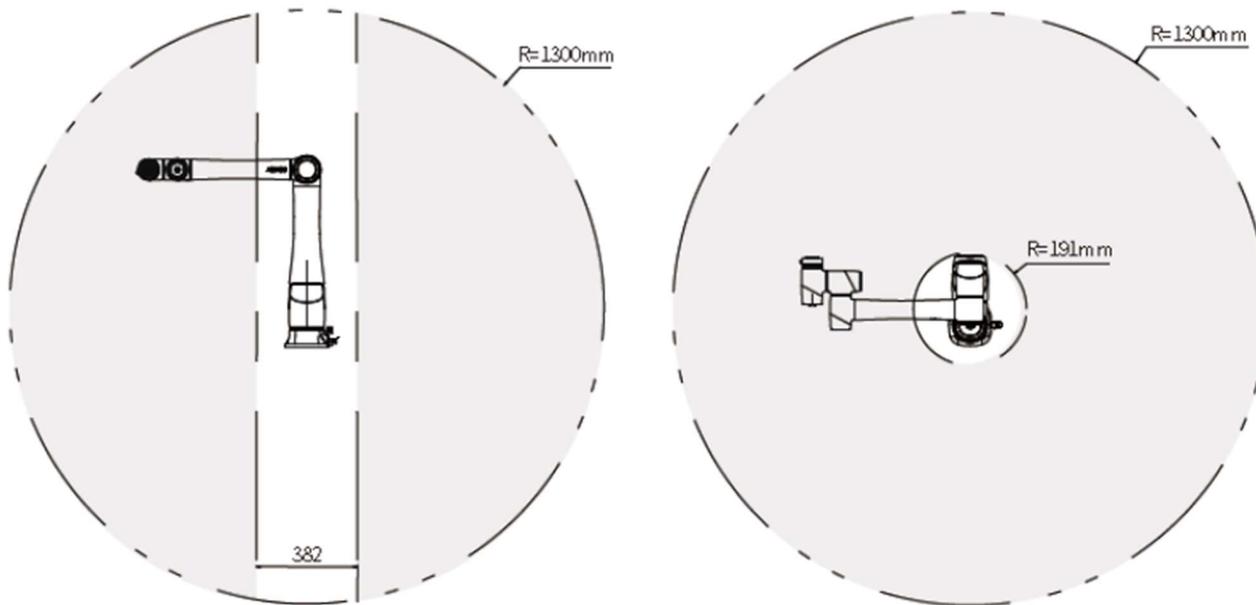
Electrical block diagram of Manipulator:



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### ILLUSTRATIONS 3

Overall drawing and reaching area of DOBOT CR10:



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**SUMMARY OF TEST RESULTS**

The following tests were performed:

UL 1740-2018 (R2019)

<u>Section</u>	<u>Test Description</u>
43	General
44	Power Input and Maximum Ampacity Test
45	Temperature
46	Overvoltage and Undervoltage tests
47	Leakage Current Test
50	Maximum Low Voltage Measurement
51	Energy Storage and Energy Storage Circuit Tests – Electrical
51.1	Battery or super-capacitor (Ultra-cap) overcharge
51.2	Battery or super-capacitor discharge
51.5	Energy Source low voltage – program memory loss
52	Pendant Tests: Drop, Handle and Mounting Means
52.1	General
52.2	Pendant: Handle and mounting means
52.3	Pendant: Enabling device
53	Interconnecting Cords and Cables Test
54	Abnormal Operation Test
54.1	General
54.3	Locked ventilation motor test
54.4	Blocked mechanical filter test
55	Component Breakdown Test
56	Over load (125% payload)
57	Endurance Test (100 000cycle rated load capacity)
59	Power Loss and Power Restoration Test
60	Emergency Stop Operation Test
64	Teach mode Slow Speed Measurement
64.1	Manual mode reduced speed
64.2	Singularity condition
66	Dielectric Voltage-Withstand Test
66.1	General
68	Grounding Resistance Test
69	Strain Relief Test
70	Flexing Test
72	Lifting / Transportation Means Loading Test
73	Mounting Device Test
76	Enclosure Test
77	Horizontal Surface Loading Test

CSA C22.2 No.0.4-17

<u>Section</u>	<u>Test Description</u>
5.1	IMPEDANCE TEST

Results of the tests indicate the specimens conform to the test criteria that were found to be applicable.

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## LISTING REPORT/INSPECTION PROCEDURE

Shenzhen Yuejiang Technology Co., Ltd.  
Procert order #: SH-CERT210401097

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Issued: 29 July 2021  
Revised: None

### REVISION TABLE

The following changes have been made to this Report:

<u>Date</u>	<u>Project #</u>	<u>Revision prepared by</u>	<u>Page</u>	<u>Description of Change</u>
				NONE

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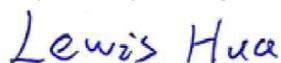
Shenzhen Yuejiang Technology Co., Ltd.  
Procert order #: SH-CERT210401097

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Issued: 29 July 2021  
Revised: None

**CONCLUSION**

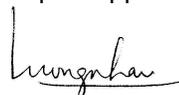
Samples of the products covered by this Report have been found to comply with the applicable requirements of  
STANDARD FOR SAFETY - Robots and Robotic Equipment, UL 1740-2018 (R2019)  
Standard for Electrical Standard for Industrial Machinery, NFPA 79:2018 Edition Dated 30/11/2017 and  
Industrial control equipment, CAN/CSA C22.2 No. 14-2018, Dated March 2018.

Report Prepared by:



Lewis Hua  
Evaluator

Report Approved by:



John Luong  
Lab Reviewer/Certification Reviewer

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