

Aovita

OVERALL SOLUTIONS FOR ROBOTIC END-EFFECTOR

★ GRIPPING SYSTEMS ROBOTIC GRIPPING SYSTEMS

• PRESS AUTOMATION TOOLING

• TRANSFER GRIPPERS

• HOT STAMPING GRIPPERS

★ PNEUMATIC GRIPPERS

★ AUTOMATIC TOOL CHANGERS

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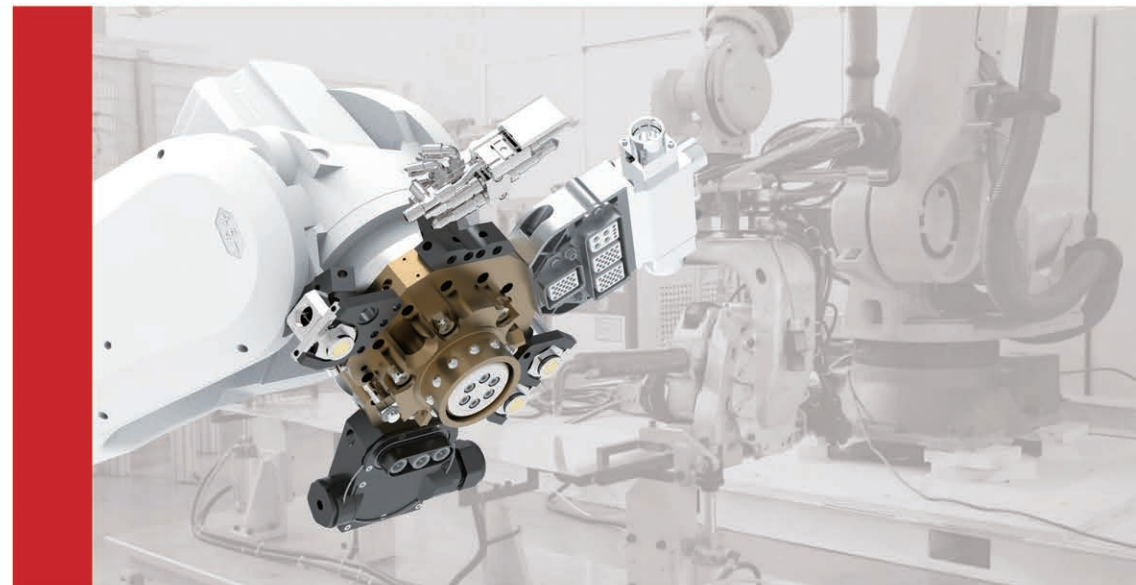
Web : www.eaotto.com



Learn more

Ver. 2025-03

AUTOMATIC TOOL CHANGERS



Since **2000**

Jinan Aotto Technologies Co., Ltd.



Jinan Aotto Technologies Co., Ltd. was established in 2000 and is a wholly-owned subsidiary of Jinan Aotto Automation Co., Ltd. Adhering to the parent company's philosophy of "committed to innovation and pursuing excellence", adhering to the development strategy of "product leadership", focusing on Aovita robot intelligent gripping and Aosaff safety protection products, and dedicated to serving global automation integrators.

BUSINESS PARTNER & CLIENTS

For the past 20+ years' service of the metal forming industry, we have established strategic partnership with many top industry partners. Together, we provide the comprehensive end to end solution with reliable products, industry-leading experience, and consistent reachable service for the long-term successfulness of our customers.

PARTNER



PART OF CUSTOMER

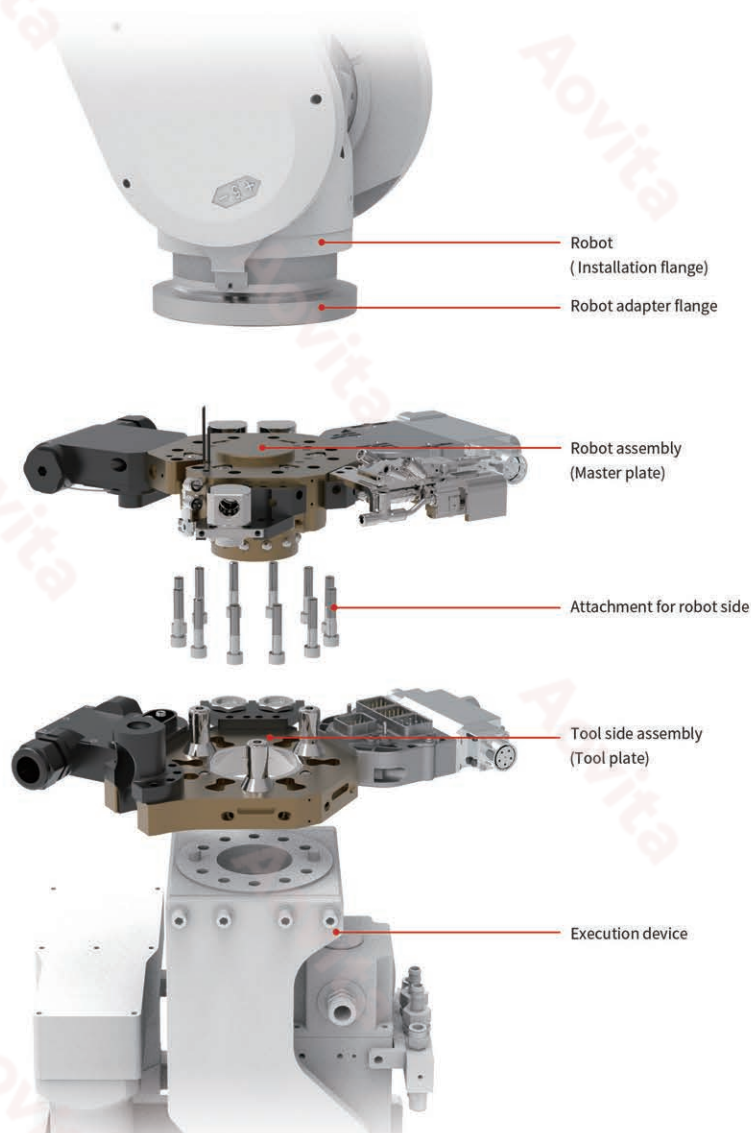


CONTENTS

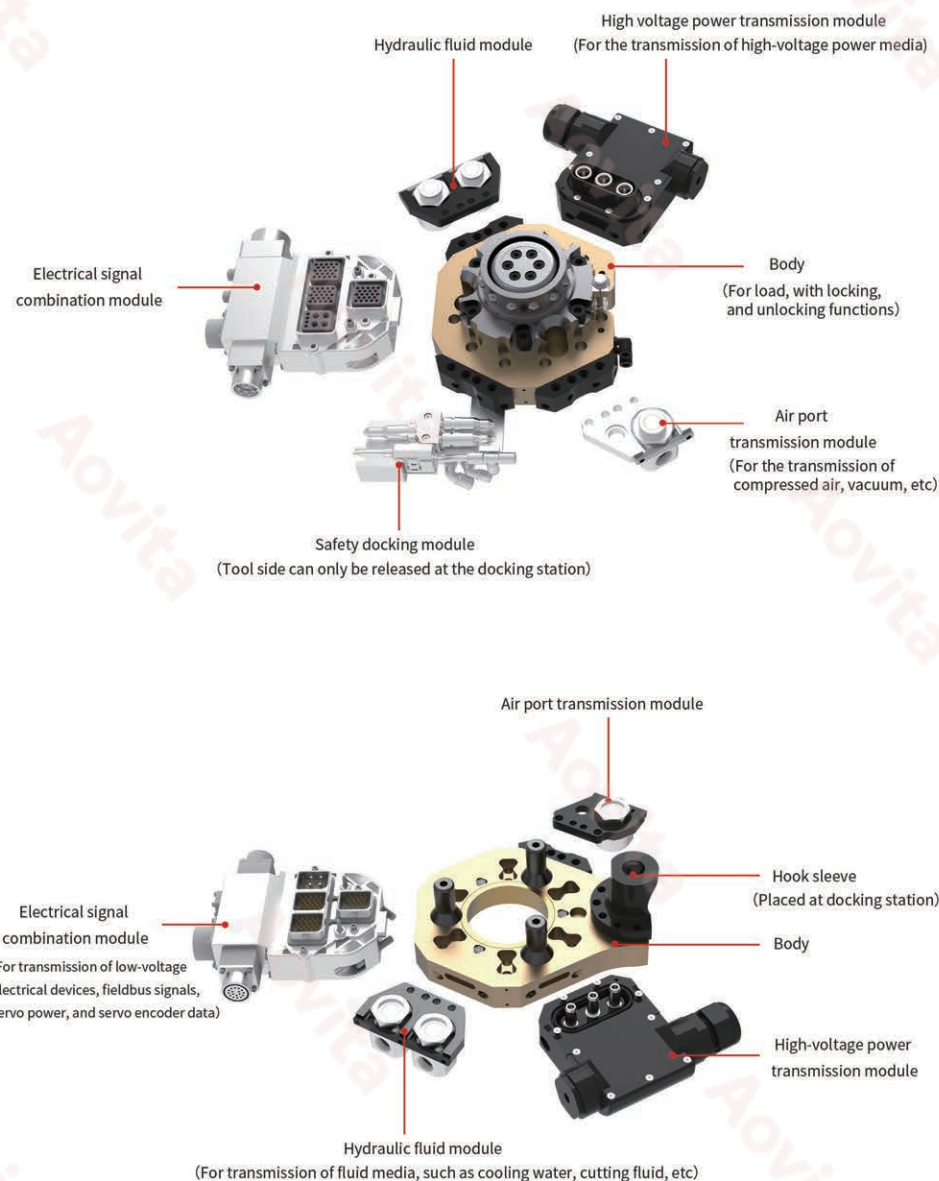
Aovita® Robotic tool changer

• Structure	P01
• Advantages	P03
• Selection	P04
Model	
• AQC-6	P05
• AQCB-12.....	P07
• AQC-20	P09
• AQC-40	P11
• AQC-70	P13
• AQCB-150	P15
• AQC-300	P17
• AQC-300H	P19
• AQC-500	P21
• AQCB-630	P23
• AQC-700	P25
• Aovita Product List.....	P27

◆ Structure



◆ Structure



◆ Application & Advantages

Robotic tool changers enable industrial robots to automatically switch end-of-arm tools, achieving multi-functionality with a single robot. They are widely used for quick tool changes with grippers, spot welding guns, deburring tools, ultrasonic welders, screwdrivers, and vision cameras, etc.

• Cost-effective

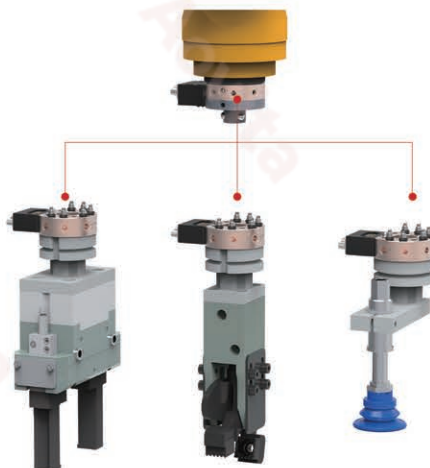
Work with multiple execution tools
Multi-purpose machine
Reduce the number of robots employed

• Efficiency

High start-up rate, multi-part parallel production
Quick switching to minimize auxiliary time
High utilization of automation line

• Expandability

Rapid integration of new tools
Expansion of new functions
Meet the requirements of new processes and parts



◆ Advantage

Safety

- Double air-break self-locking mechanism
- Comprehensive safety monitoring
- Patented design for safe docking, preventing the tool plate from dropping off

Stability

- 10 times the load locking capacity, with good rigidity and stable operation
- Repeat positioning accuracy up to 0.01mm
- ISO/CE certified, with full-process QC and traceability

Cost-effectiveness

- Mass production for lower product costs, shorter lead times, and consistent quality
- Over 95% self-manufacturing rate
- Main product focus, collaborative marketing



◆ Selection

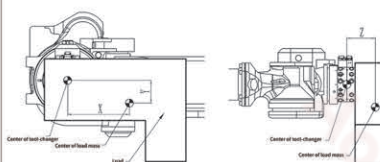
With modular design, Aovita products can be adapted to almost any robot application. Only 3 steps, you can configure your tool changer assembly perfectly.

1. Select the tool changer body (locking unit)

• Simple selection

☆ Tool changer load > Robot load

• Precise selection



$$① \text{ Rated load} > M_B = M_{\text{工件}} + M_{\text{工具}} + M_{\text{外力}}$$

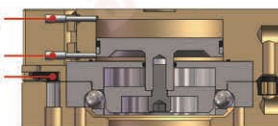
$$② W_B = M_B \times \sqrt{Y^2 + Z^2} \leq \text{Static bending moment}$$

$$W_B = M_B \times X \leq \text{Static torque}$$

$$③ W_{\text{组合}} = M_B \times \sqrt{X^2 + Y^2 + Z^2} \leq \text{The greater value of static torque and bending moment}$$

M_B : Total weight
 $W_{\text{组合}}$: Combined moment
 W_B : Bending moment
 $M_{\text{工件}}$: Workpiece weight
 $W_{\text{外力}}$: External force

Open detection sensor code: N
Locking detection sensor code: L
Tool plate in position detection sensor code: R



Equipped with monitoring sensors for tool changer status (for robot side only)

Master plate
Tool plate

Sensors

Aovita product load: 6Kg, 12Kg, 20Kg, 40Kg, 70Kg, 150Kg, 300Kg, 500Kg, 630Kg, and 700Kg.

2. Transmission module (robot side)

Media transmission modules are required for all end-of-arm tools should be equipped and placed in the appropriate mounting locations on the body (the specific locations are shown on the details page.).

3. Transmission module (tool side)

Only the media transmission modules required for the corresponding tools are equipped.



Tool Side 1

Tool Side 2

◆ Model

Item	Model	Model (tool changer status detection sensor)
Master plate assembly	Model (body) - A - B	-NLR1W Lock/open/in-position detection (PNP open-circuit wiring) -NLR2W Lock/open/in-position detection (NPN open-circuit wiring) -NLR1P Lock/open/in-position detection (PNPM8 Plug) -NLR2P Lock/open/in-position detection (NPNM8 Plug)
	Side A	
	Transmission	
Tool plate assembly	Model (body) - A - B	
	Side A	
	Transmission	

Specific model details can be found on the details page

AQC-12

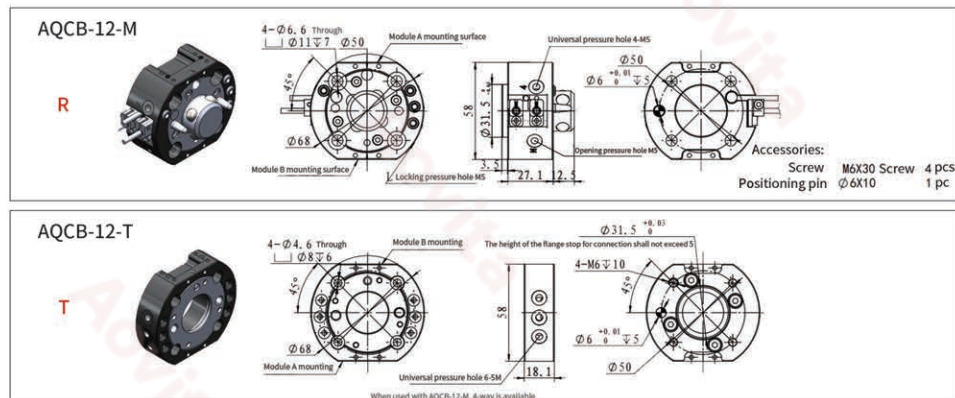
◆ Features

- Load capacity 12Kg
- Adopts steel ball locking mechanism
- The body can integrate locking and opening sensors
- Double air-break protection mechanism
- Applications: assembly, handling, testing industries, with direct mounting of collaborative robots

◆ Parameters

Body	Model	Master plate	AQC-12-M
		Tool plate	AQC-12-T
	Rated load		12Kg
	Repeat positioning accuracy		±0.01mm
	Allowable static moment	Bending moment	40N.M
		Torque	34.5N.M
	Locking force (0.49Mpa)		1150N
	Material	Locking part	High strength steel
		Body Material	High-strength aviation aluminum alloy
	Weight	Master plate	0.29Kg
		Tool plate	0.14Kg
	Air pressure		0.39-0.7Mpa
	Humidity / Temperature		0-95% (non-condensing) / 0-55°C
Dimension (after locking)		φ68×45.2mm	
Body self-sealing air pressure hole (type)		4-M5 (no self-sealing)	

◆ Drawing



◆ Adaptive module

Classification	Model		Assembly model	Specification	Weight	Mounting surface	Diagram
Air port transmission module	Master plate	AQCN-5-3-LM	CN53	M5*5 path (no self-sealing)	0.035Kg	A/B	
	Tool plate	AQCN-5-3-LT			0.03Kg		
Low voltage electrical transmission module	Master plate	AQCE-9-1-P-SLM	CE9P	1A*9 cores	0.05Kg	A/B	
	Tool plate	AQCE-9-1-P-SLT			0.05Kg		
	Master plate	AQCE-15-1-P-SLM	CE15P	1A*15 cores	0.06Kg	A/B	
	Tool plate	AQCE-15-1-P-SLT			0.05Kg		
	Master plate	AQCE-10-1-W5-SLM	CE10W5	1A*10 cores (5m cable)	0.46Kg	A/B	
		AQCE-10-1-W0-SLM	CE10W0	1A*10 cores (No Cable)	0.09Kg		
	Tool plate	AQCE-10-1-W1-SLT	CE10W1	1A*10 cores (1m Cable)	0.23Kg		
		AQCE-10-1-W0-SLT	CE10W0	1A*10 cores (No Cable)	0.09Kg		
	Master plate	AQCE-20-3-W5-LM	CE20W5	3A*20 cores (5m cable)	0.53Kg	A/B	
	Tool plate	AQCE-20-3-W1-LT	CE20W1	3A*20 cores (1m Cable)	0.13Kg		
	Tool plate	AQCE-20-3-CD3-W1-LT	CE20W1C	3A*16 cores (1m cable with 3-digit tool coding, occupies 4 cores)			
High-voltage electrical transmission module	Master plate	AQCP-7-13-W7-LM	CP7W7	13A*7 cores	0.6Kg	A/B	
	Tool plate	AQCP-7-13-W1-LT	CP7W1		0.2Kg		
High-frequency transmission module	Master plate	AQCF-2-5-W5-LM	CF2W5	5A*2 cores	0.34Kg	A/B	
	Tool plate	AQCF-2-5-W1-LT	CF2W1		0.08Kg		
Bus transmission module	Master plate	AQCC-GN-W7-LM	CCGNW7	M12-8 core X coding network interface, can be used for Gigabit network transmission	0.5Kg	A/B	
	Tool plate	AQCC-GN-W1-LT	CCGNW1		0.2Kg		
Servo transmission module	Master plate	AQCS-6-5-12-W7-LM	CS5W7	Power supply: 5A*6 cores coding: 3A*10 cores; (cable 7m)	0.7Kg	A/B	
	Tool plate	AQCS-6-5-12-W1-LT	CS5W1	Power supply: 5A*6 cores coding: 3A*10 cores; (cable 1m)	0.3Kg		
The above are Aotto's core products, which are usually available from stock. With tens of thousands of applications, Aovita's transmission modules come in thousands of models, which can easily meet various robotic application needs.If the above specifications do not meet your requirements, please feel free to contact our sales team.							

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◆ Model

12kg master plate assembly **AQC-12-M** **A** **B** Status detection sensor
 Side A Side B
 Assembly Model Assembly Model
 - NLR1W Lock/open/in-position detection (PNP open-circuit wiring)
 - NLR2W Lock/open/in-position detection (NPN open-circuit wiring)

12kg tool plate assembly **AQC-12-T** **A** **B**

Note: When there are no optional contents in the ☐☐☐☐ use "NON" as a placeholder. If no placeholder is required, it can be omitted.

AQC-20

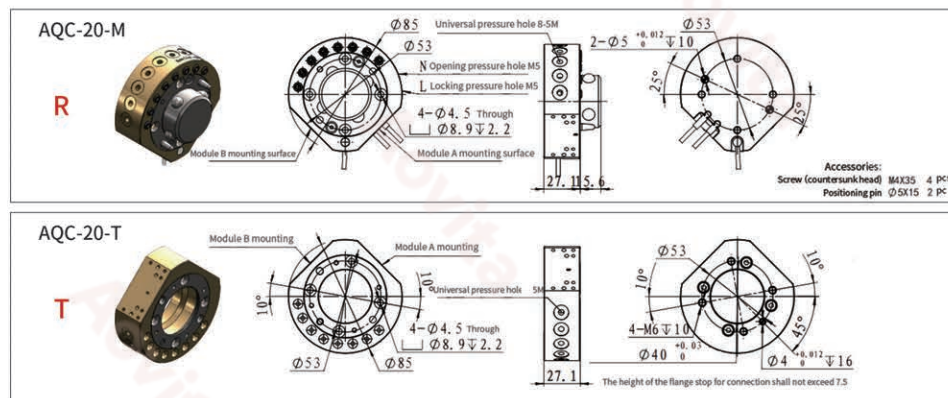
◆ Features

- Load capacity 20Kg
- Adopts steel ball locking mechanism
- The body can integrate locking and opening sensors
- Double air-break protection mechanism
- Applications: assembly, handling, testing, ultrasonic welding, etc

◆ Parameters

	Model	Master plate	AQC-20-M
		Tool plate	AQC-20-T
Body	Rated load		20Kg
	Repeat positioning accuracy		±0.01mm
	Allowable static moment	Bending moment	60N.M
		Torque	86.5N.M
	Locking force (0.49Mpa)		2059N
	Material	Locking part	High strength steel
		Body Material	High-strength aviation aluminum alloy
	Weight	Master plate	0.52Kg
		Tool plate	0.32Kg
	Air pressure		0.39-0.7Mpa
	Humidity / Temperature		0-95% (non-condensing) / 0-55°C
	Dimension (after locking)		φ85×54.2mm
	Body self-sealing air pressure hole (type)		8-M5 (no self-sealing)

◆ Drawing



◆ Adaptive module

Classification	Model		Assembly model	Specification	Weight	Mounting surface	Diagram
Air port transmission module	Master plate	AQCN-5-3-LM	CN65	G1/8"6 path (no self-sealing)	0.035Kg	A/B	
	Tool plate	AQCN-5-3-LT			0.03Kg		
	Master plate	AQCN-1-10-LM	CN110	G1/4"1 path (no self-sealing)	0.08Kg	A/B	
	Tool plate	AQCN-1-10-LT					
Low voltage electrical transmission module	Master plate	AQCE-12-3-W5-LM	CE12W5	3A*12 cores (5m cable)	0.53Kg	A/B	
	Tool plate	AQCE-12-3-W1-LT	CE12W1	3A*12 cores (1m Cable)	0.13Kg		
	Tool plate	AQCE-12-3-CD3-W1-LT	CE12W1C	3A*8 cores (1m cable with 3-digit tool coding, occupies 4 cores)			
	Master plate	AQCE-20-3-W5-LM	CE20W5	3A*20 cores (5m cable)	0.8Kg	A/B	
	Tool plate	AQCE-20-3-W1-LT	CE20W1	3A*20 cores (1m Cable)	0.48Kg		
	Tool plate	AQCE-20-3-CD3-W1-LT	CE20W1C	3A*16 cores (1m cable with 3-digit tool coding, occupies 4 cores)			
High-voltage electrical transmission module	Master plate	AQCP-7-13-W7-LM	CP7W7	13A*7 cores	0.6Kg	A/B	
	Tool plate	AQCP-7-13-W1-LT	CP7W1		0.2Kg		
High-frequency transmission module	Master plate	AQCF-2-5-W5-LM	CF2W5	5A*2 cores	0.34Kg	A/B	
	Tool plate	AQCF-2-5-W1-LT	CF2W1		0.08Kg		
Bus transmission module	Master plate	AQCC-GN-W7-LM	CCGNW7	M12-8 core X coding network interface, can be used for Gigabit network transmission	0.5Kg	A/B	
	Tool plate	AQCC-GN-W1-LT	CCGNW1		0.2Kg		
Servo transmission module	Master plate	AQCS-6-5-12-W7-LM	CSSW7	Power supply: 5A*6 cores coding; 3A*10 cores; (cable 7m)	0.7Kg	A/B	
	Tool plate	AQCS-6-5-12-W1-LT	CSSW1	Power supply: 5A*6 cores coding; 3A*10 cores; (cable 1m)	0.3Kg		
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◆ Model

20kg master plate assembly AQC-20-M- Status detection sensor
 Side A Assembly Model Side B Assembly Model
 - NLR1W Lock/open/in-position detection (PNP open-circuit wiring)
 - NLR2W Lock/open/in-position detection (NPN open-circuit wiring)

20kg tool plate assembly AQC-20-T-

Note: When there are no optional contents in the use "NON" as a placeholder. If no placeholder is required, it can be omitted.

AQC-40

◆ Features

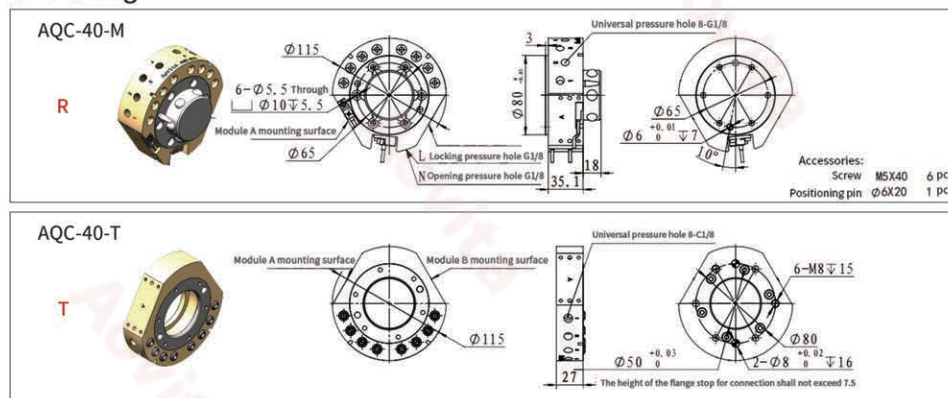
- Load capacity 40Kg
- Adopts steel ball locking mechanism
- The body can integrate locking and opening sensors
- Double air-break protection mechanism
- Applications: assembly, handling, stacking, grinding, deburring, etc



◆ Parameters

Body	Model	Master plate	AQC-40-M
		Tool plate	AQC-40-AT
	Rated load		40Kg
	Repeat positioning accuracy		±0.015mm
	Allowable static moment	Bending moment	157N.M
		Torque	215N.M
	Locking force (0.49Mpa)		4000N
	Material	Locking part	High strength steel
		Body Material	High-strength aviation aluminum alloy
	Weight	Master plate	1.25Kg
		Tool plate	0.61Kg
	Air pressure		0.39-0.7Mpa
	Humidity / Temperature		0-95% (non-condensing) / 0-55℃
Dimension (after locking)		φ115×65.1mm	
Body self-sealing air pressure hole (type)		8-G1/8 (no self-sealing)	

◆ Drawing



◆ Adaptive module

Classification	Model		Assembly model	Specification	Weight	Mounting surface	Diagram
Air port transmission module	Master plate	AQCN-6-5-RM	CN65	G1/8"6 path (no self-sealing)	0.16KG	A/B	
	Tool plate	AQCN-6-5-RT			0.12KG		
	Master plate	AQCN-4-10-RM	CN410	G1/4"4 path (no self-sealing)	0.17KG	A/B	
	Tool plate	AQCN-4-10-RT			0.16KG		
Low voltage electrical transmission module	Master plate	AQCE-12-3-W5-LM	CE12W5	3A*12 cores (5m cable)	0.53KG	B	
	Tool plate	AQCE-12-3-W1-LT	CE12W1	3A*12 cores (1m cable)	0.13KG		
	Tool plate	AQCE-12-3-CD3-W1-LT	CE12W1C	3A*8 cores (1m cable with 3-digit tool coding, occupies 4 cores)			
	Master plate	AQCE-26-3-W7-RM	CE26W7	3A*26 cores (7m cable)	2.50KG	A/B	
	Tool plate	AQCE-26-3-W1-RT	CE26W1	3A*26 cores (1m cable)	0.35KG		
	Tool plate	AQCE-26-3-CD3-W1-RT	CE26W1C	3A*22 cores (1m cable with 3-digit tool coding, occupies 4 cores)			
	Master plate	AQCE-19-3-P-RM	CE19P	3A*19 cores	0.24KG	A/B	
	Tool plate	AQCE-19-3-P-RT			0.16KG		
	Tool plate	AQCE-19-3-CD3-P-RT		3A*15 cores (3-digit tool coding, occupies 4 cores)			
	Master plate	AQCE-26-3-P-RM	CE26P	3A*26 cores	0.25KG	A/B	
	Tool plate	AQCE-26-3-P-RT	CE26PT		0.16KG		
	Tool plate	AQCE-26-3-CD3-P-RT	CE26PC	3A*22 cores (3-digit tool coding, occupies 4 cores)			
High-voltage electrical transmission module	Master plate	AQCP-7-13-RM	CP7P	13A*7 cores	0.32KG	A/B	
	Tool plate	AQCP-7-13-RT			0.24KG		
High-frequency transmission module	Master plate	AQCF-2-5-W5-LM	CF2W5	5A*2 cores	0.34KG	B	
	Tool plate	AQCF-2-5-W1-LT	CF2W1		0.08KG		
Bus transmission module	Master plate	AQCC-GN-RM	CCGN	M12-8 core X coding network interface, can be used for Gigabit network transmission	0.36KG	A/B	
	Tool plate	AQCC-GN-RT			0.26KG		
	Master plate	AQCC-EN-RM	CCEN	M12-4-core, D-code bus interface, 7/8-5-core power interface; can be used for transmission of Ethernet, EtherNetIP, EtherCAT, Profinet, etc	0.38KG	A/B	
	Tool plate	AQCC-EN-RT			0.28KG		
	Master plate	AQCC-DN-RM	CCDN	M12-5-pin bus interface, 7/8-4 core power supply interface; can be used for Devicenet transmission	0.38KG	A/B	
	Tool plate	AQCC-DN-RT			0.28KG		
Servo transmission module	Master plate	AQCS-6-5-12-W7-LM	CS5W7	Power supply: 5A*6 cores: coding: 3A*10 cores; (cable 7m)	0.7KG	B	
	Tool plate	AQCS-6-5-12-W1-LT	CS5W1	Power supply: 5A*6 cores: coding: 3A*10 cores; (cable 1m)	0.3KG		
	Master plate	AQCS-6-20-12-RM	CS20P	Power supply: 20A*6 cores: coding: 3A*12 cores	0.53KG	A/B	
	Tool plate	AQCS-6-20-12-RT			0.58KG		

◆ Model

40kg master plate assembly

AQC-40-M

A B Status detection sensor

Side A Assembly Model Side B Assembly Model

- NLR1W Lock/open/in-position detection (PNP open-circuit wiring)
- NLR2W Lock/open/in-position detection (NPN open-circuit wiring)
- NLR1P Lock/open/in-position detection(PNPM8 Plug)
- NLR2P Lock/open/in-position detection(NPNM8 Plug)

40kg tool plate assembly AQC-40-T-

Note: When there are no optional contents in the □□□□ use "NON" as a placeholder. If no placeholder is required, it can be omitted.

AQC-70

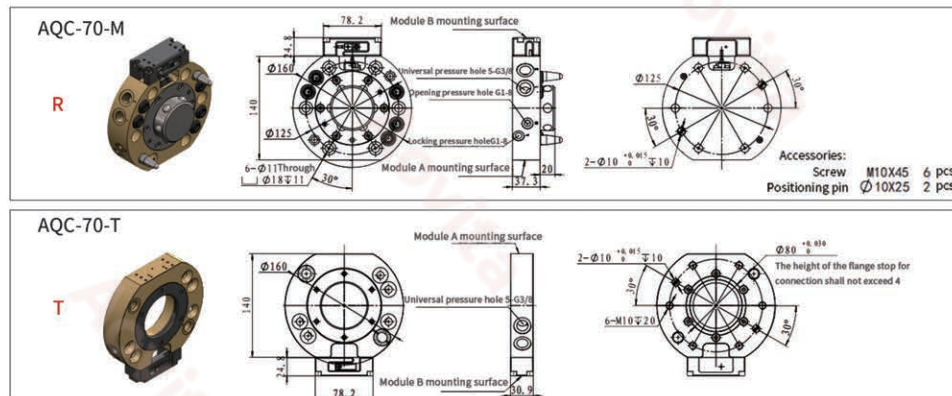
◆ Features

- Load capacity 70Kg
- Adopts steel ball locking mechanism
- The body can integrate locking and opening sensors
- Double air-break protection mechanism
- Applications: assembly, handling, stacking, grinding, deburring, etc

◆ Parameters

Body	Model	Master plate	AQC-70-M
		Tool plate	AQC-70-T
	Rated load		70Kg
	Repeat positioning accuracy		±0.01mm
	Allowable static moment	Bending moment	343N.M
		Torque	343N.M
	Locking force (0.49Mpa)		7056N
	Material	Locking part	High strength steel
		Body Material	High-strength aviation aluminum alloy
	Weight	Master plate	2.4Kg
		Tool plate	1.2Kg
	Air pressure		0.39-0.7Mpa
	Humidity / Temperature		0-95% (non-condensing) / 0-55°C
	Dimension (after locking)		φ160×68.1mm
	Body self-sealing air pressure hole (type)		5-G3/8 (no self-sealing)

◆ Drawing



◆ Adaptive module

Classification	Model	Assembly model	Specification	weight	Mounting surface	Diagram
Air port transmission module	Master plate AQCN-6-5-RM	CN65	G1/8"6 path (no self-sealing)	0.16Kg	A/B	
	Tool plate AQCN-6-5-RT			0.12Kg		
	Master plate AQCN-4-10-RM	CN410	G1/4"4 path (no self-sealing)	0.17Kg	A/B	
	Tool plate AQCN-4-10-RT			0.16Kg		
	Master plate AQCN-10-10-RM	CN1010	G1/4"10 path (no self-sealing)	0.52Kg	A/B	
	Tool plate AQCN-10-10-RT			0.48Kg		
	Master plate AQCN-1-12S-RM	CN112S	G3/8"1 path (Master plate self sealing)	0.30Kg	A/B	
	Tool plate AQCN-1-12S-RT			0.20Kg		
	Master plate AQCN-1-50-RM	CN150	G2"1 path (no self-sealing)	0.55Kg	A/B	
	Tool plate AQCN-1-50-RT			0.50Kg		
Low voltage electrical transmission module	Master plate AQCE-12-3-W5-LM	CE12W5	3A*12 cores (5m cable)	1.20Kg	A	
	Tool plate AQCE-12-3-W1-LT	CE12W1	3A*12 cores (1m cable)	0.13Kg		
	Tool plate AQCE-12-3-CD3-W1-LT	CE12W1C	3A*8 cores (1m cable with 3-digit tool coding, occupies 4 cores)			
	Master plate AQCE-26-3-W7-RM	CE26W7	3A*26 cores (7m cable)	2.50Kg	A/B	
	Tool plate AQCE-26-3-W1-RT	CE26W1	3A*26 cores (1m cable)	0.35Kg		
	Tool plate AQCE-26-3-CD3-W1-RT	CE12W1C	3A*22 cores (1m cable with 3-digit tool coding, occupies 4 cores)			
	Master plate AQCE-19-3-P-RM	CE19P	3A*19 cores	0.24Kg	A/B	
	Tool plate AQCE-19-3-P-RT			0.16Kg		
	Tool plate AQCE-19-3-CD3-P-RT	CE19PC	3A*15 cores (3-digit tool coding, occupies 4 cores)			
	Master plate AQCE-26-3-P-RM	CE26P	3A*26 cores	0.25Kg		
High-voltage electrical transmission module	Master plate AQCP-7-13-RM	CP7P	13A*7 cores	0.32Kg	A/B	
	Tool plate AQCP-7-13-RT			0.24Kg		
High-frequency transmission module	Master plate AQCF-2-5-W5-LM	CF2W5	5A*2 cores	0.34Kg	A	
	Tool plate AQCF-2-5-W1-LT	CF2W1		0.08Kg		
Bus transmission module	Master plate AQCC-GN-RM	CCGN	M12-8 core X coding network interface, can be used for Gigabit network transmission	0.36Kg	A/B	
	Tool plate AQCC-GN-RT			0.26Kg		
	Master plate AQCC-EN-RM	CCEN	M12-4-core, D-code bus interface, 7/8-5-core power interface; can be used for transmission of Ethernet, EtherNet/IP, EtherCAT, Profinet, etc	0.38Kg	A/B	
	Tool plate AQCC-EN-RT			0.28Kg		
	Master plate AQCC-DN-RM	CCDN	M12-5-pin bus interface, 7/8-4 core power supply interface; can be used for Devicenet transmission	0.38Kg	A/B	
	Tool plate AQCC-DN-RT			0.28Kg		
Servo transmission module	Master plate AQCS-6-5-12-W7-LM	CSSW7	Power supply: 5A*6 cores: coding: 3A*10 cores; (cable 7m)	1.43Kg	A	
	Tool plate AQCS-6-5-12-W1-LT	CSSW1	Power supply: 5A*6 cores: coding: 3A*10 cores; (cable 1m)	0.22Kg		
	Master plate AQCS-6-20-12-RM	CS20P	Power supply: 5A*6 cores coding: 3A*10 cores; (cable 7m)	0.53Kg	A/B	
	Tool plate AQCS-6-20-12-RT			0.58Kg		
Hydraulic fluid module	Master plate AQCH1-RM	CH1M	Diameter 7mm*1 path	0.85Kg	A/B	
	Tool plate AQCH1-RT	CH1T		0.8Kg		
	Master plate AQCH2-RM	CH2M	Diameter 7mm*1 path	1.4Kg	A/B	
	Tool plate AQCH2-RT	CH2T		1.3Kg		
Safety docking module	Master plate AQCV1-RM	CV1M	Built-in two-position five-way solenoid valve; the master plate can release the tool plate only at the docking station to avoid abnormal fall off	0.78Kg	A	
	Tool plate AQCV1-RT	CV1T		0.51Kg		

◆ Model

70kg master plate assembly	AQC-70-M-	A		B		Status detection sensor
						
						
						
		Side A		Side B		
		Assembly Model		Assembly Model		
		- NLR1W Lock/open/in-position detection (PNP open-circuit wiring)				
		- NLR2W Lock/open/in-position detection (NPN open-circuit wiring)				
		- NLR1P Lock/open/in-position detection (PNPM8 Plug)				
		- NLR2P Lock/open/in-position detection (NPNM8 Plug)				
70kg tool plate assembly	AQC-70-T-	A		B		Status detection sensor
						
						
						
		Side A		Side B		
		Assembly Model		Assembly Model		

Note: When there are no optional contents in the ☐☐☐☐ use "NON" as a placeholder. If no placeholder is required, it can be omitted.

AQCB-150

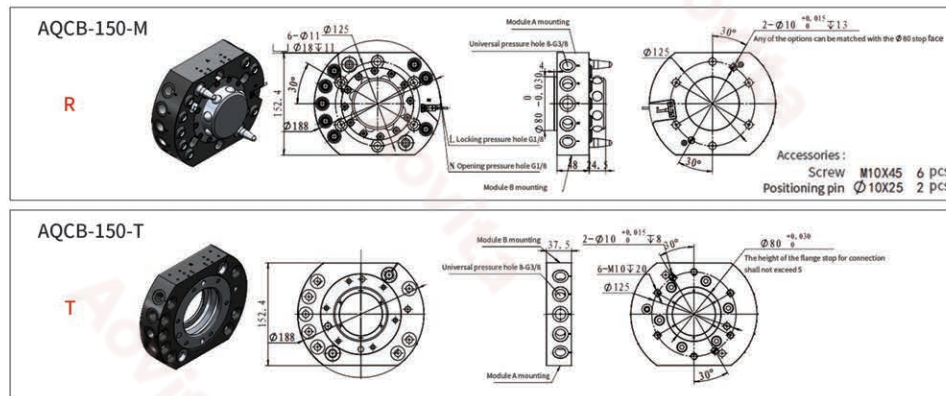
◆ Features

- Load capacity 150Kg
- Adopts steel ball locking mechanism
- The body can integrate locking and opening sensors
- Double air-break protection mechanism
- Applications: assembly, handling, stacking, grinding, deburring, , etc

◆ Parameters

Body	Model	Master plate	AQC-150-M
		Tool plate	AQC-150-T
	Rated load		150Kg
	Repeat positioning accuracy		±0.015mm
	Allowable static moment	Bending moment	820N.M
		Torque	820N.M
	Locking force (0.49Mpa)		14900N
	Material	Locking part	High strength steel
		Body Material	High-strength aviation aluminum alloy
	Weight	Master plate	4.2Kg
		Tool plate	2.3Kg
	Air pressure		0.39-0.7Mpa
	Humidity / Temperature		0-95% (non-condensing) / 0-55°C
	Dimension (after locking)		φ188×89.5mm
	Body self-sealing air pressure hole (type)		8-G3/8 (no self-sealing)

◆ Drawing



◆ Adaptive module

Classification	Model	Assembly model	Specification	Weight	Mounting surface	Diagram
Air port transmission module	Master plate AQCN-6-5-RM	CN65	G1/8"6 path (no self-sealing)	0.16Kg	A/B	
	Tool plate AQCN-6-5-RT			0.12Kg		
	Master plate AQCN-4-10-RM	CN410	G1/4"4 path (no self-sealing)	0.17Kg	A/B	
	Tool plate AQCN-4-10-RT			0.16Kg		
	Master plate AQCN-10-10-RM	CN1010	G1/4"10 path (no self-sealing)	0.52Kg	A/B	
	Tool plate AQCN-10-10-RT			0.48Kg		
	Master plate AQCN-1-12S-RM	CN112S	G3/8"1 path (Master plate self sealing)	0.30Kg	A/B	
	Tool plate AQCN-1-12S-RT			0.20Kg		
	Master plate AQCN-1-50-RM	CN150	G2"1 path (no self-sealing)	0.55Kg	A/B	
	Tool plate AQCN-1-50-RT			0.50Kg		
Low voltage electrical transmission module	Master plate AQCE-12-3-W5-LM	CE12W5	3A*12 cores (5m cable)	1.20Kg	A/B	
	Tool plate AQCE-12-3-W1-LT	CE12W1	3A*12 cores (1m cable)	0.13Kg		
	Master plate AQCE-12-3-CD3-W1-LT	CE12W1C	3A*8 cores (1m cable with 3-digit tool coding, occupies 4 cores)	2.50Kg	A/B	
	Tool plate AQCE-12-3-CD3-W1-RT	CE12W1C	3A*22 cores (1m cable with 3-digit tool coding, occupies 4 cores)			
	Master plate AQCE-26-3-W7-RM	CE26W7	3A*26 cores (7m cable)	0.35Kg	A/B	
	Tool plate AQCE-26-3-W1-RT	CE26W1	3A*26 cores (1m cable)			
	Master plate AQCE-19-3-P-RM	CE19P	3A*19 cores	0.24Kg	A/B	
	Tool plate AQCE-19-3-P-RT	CE19P	3A*15 cores (3-digit tool coding, occupies 4 cores)	0.16Kg		
	Master plate AQCE-26-3-P-RM	CE26P	3A*26 cores	0.25Kg	A/B	
	Tool plate AQCE-26-3-P-RT	CE26P	3A*26 cores (3-digit tool coding, occupies 4 cores)	0.16Kg		
High-voltage electrical transmission module	Master plate AQCP-7-13-RM	CP7P	13A*7 cores	0.32Kg	A/B	
	Tool plate AQCP-7-13-RT			0.24Kg		
High-frequency transmission module	Master plate AQCF-2-5-W5-LM	CF2W5	5A*2 cores	0.34Kg	A/B	
	Tool plate AQCF-2-5-W1-LT	CF2W1		0.08Kg		
Bus transmission module	Master plate AQCC-GN-RM	CCGN	M12-8 core X coding network interface, can be used for Gigabit network transmission	0.36Kg	A/B	
	Tool plate AQCC-GN-RT			0.26Kg		
	Master plate AQCC-EN-RM	CCEN	M12-4-core, D-code bus interface, 7/8-5-core power interface; can be used for transmission of Ethernet, EtherNet/IP, EtherCAT, Profinet, etc	0.38Kg	A/B	
	Tool plate AQCC-EN-RT			0.28Kg		
	Master plate AQCC-DN-RM	CCDN	M12-5-pin bus interface, 7/8-4-core power supply interface; can be used for Devicenet transmission	0.38Kg	A/B	
	Tool plate AQCC-DN-RT			0.28Kg		
Servo transmission module	Master plate AQCS-6-5-12-W7-LM	CS5W7	Power supply: 5A*6 cores: coding: 3A*10 cores; (cable 7m)	1.43Kg	A/B	
	Tool plate AQCS-6-5-12-W1-LT	CS5W1	Power supply: 5A*6 cores: coding: 3A*10 cores; (cable 1m)	0.22Kg		
	Master plate AQCS-6-20-12-RM	CS20P	Power supply: 20A*6 cores: coding: 3A*12 cores	0.53Kg	A/B	
	Tool plate AQCS-6-20-12-RT			0.58Kg		
Hydraulic fluid module	Master plate AQCH1-RM	CH1M	Diameter 7mm*1 path	0.85Kg	A/B	
	Tool plate AQCH1-RT	CH1T		0.8Kg		
	Master plate AQCH2-RM	CH2M	Diameter 7mm*2 path	1.4Kg	A/B	
	Tool plate AQCH2-RT	CH2T		1.3Kg		
Safety docking module	Master plate AQCV1-RM	CV1M	Built-in two-position five-way solenoid valve; the master plate can release the tool plate only at the docking station to avoid abnormal fall off	0.78Kg	A	
	Tool plate AQCV1-RT	CV1T		0.51Kg		

◆ Model

150kg master plate assembly AQCB-150-M- Status detection sensor

- NLR1W Lock/open/in-position detection (PNP open-circuit wiring)
- NLR2W Lock/open/in-position detection (NPN open-circuit wiring)
- NLR1P Lock/open/in-position detection (PNPM8 Plug)
- NLR2P Lock/open/in-position detection (NPNM8 Plug)

150kg tool plate assembly AQCB-150-T- Status detection sensor

Note: When there are no optional contents in the use "NON" as a placeholder. If no placeholder is required, it can be omitted.

AQC-300

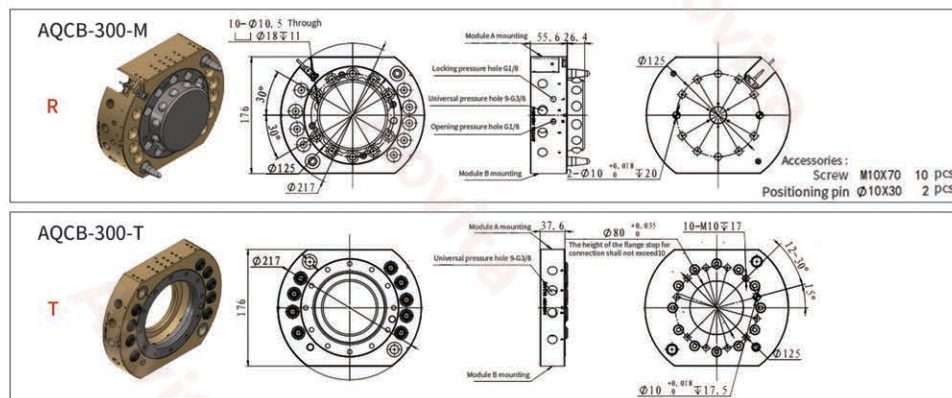
◆ Features

- Load capacity 300Kg
- Adopts steel ball locking mechanism
- The body can integrate locking and opening sensors
- Double air-break protection mechanism
- Applications: assembly, handling, stacking, grinding, deburring, etc

◆ Parameters

Body	Model	Master plate	AQC-300-M
		Tool plate	AQC-300-T
	Rated load		300Kg
	Repeat positioning accuracy		±0.015mm
	Allowable static moment	Bending moment	2710N.M
		Torque	2260N.M
	Locking force(0.49Mpa)		31360N
	Material	Locking part	High strength steel
		Body Material	High-strength aviation aluminum alloy
	Weight	Master plate	6.5Kg
		Tool plate	3.1Kg
	Air pressure		0.39-0.7Mpa
	Humidity / Temperature		0-95% (non-condensing) /0-55℃
Dimension (after locking)		φ217×93.2mm	
Body self-sealing air pressure hole (type)		9-G3/8 (no self-sealing)	

◆ Drawing



◆ Adaptive module

Classification	Model	Assembly model	Specification	weight	Mounting surface	Diagram	
Air port transmission module	Master plate	AQCN-6-5-RM	G1/8"6 path (no self-sealing)	0.16Kg	A/B		
	Tool plate	AQCN-6-5-RT		0.12Kg			
	Master plate	AQCN-4-10-RM	G1/4"4 path (no self-sealing)	0.17Kg	A/B		
	Tool plate	AQCN-4-10-RT		0.16Kg			
	Master plate	AQCN-10-10-RM	G1/4"10 path (no self-sealing)	0.52Kg	A/B		
	Tool plate	AQCN-10-10-RT		0.48Kg			
	Master plate	AQCN-1-12S-RM	G3/8"1 path (no self-sealing)	0.30Kg	A/B		
Tool plate	AQCN-1-12S-RT	0.20Kg					
Low voltage electrical transmission module	Master plate	AQCN-1-50-RM	G2"1 path (no self-sealing)	0.55Kg	A/B		
	Tool plate	AQCN-1-50-RT		0.50Kg			
	Master plate	AQCE-12-3-W5-LM	CE12W5	3A"12 cores (5m cable)	1.20Kg	A/B	
	Tool plate	AQCE-12-3-W1-LT	CE12W1	3A"12 cores (1m cable)	0.13Kg		
	Tool plate	AQCE-12-3-CD3-W1-LT	CE12W1C	3A"8 cores (1m cable with 3-digit tool coding, occupies 4 cores)	2.50Kg	A/B	
	Master plate	AQCE-26-3-W7-RM	CE26W7	3A"26 cores (7m cable)			
	Tool plate	AQCE-26-3-W1-RT	CE26W1	3A"26 cores (1m cable)	0.35Kg	A/B	
	Tool plate	AQCE-26-3-CD3-W1-RT	CE12W1C	3A"22 cores (1m cable with 3-digit tool coding, occupies 4 cores)			
	Master plate	AQCE-19-3-P-RM	CE19P	3A"19 cores	0.24Kg	A/B	
	Tool plate	AQCE-19-3-P-RT		0.16Kg			
	Tool plate	AQCE-19-3-CD3-P-RT	CE19PC	3A"15 cores (3-digit tool coding, occupies 4 cores)	0.25Kg	A/B	
	Master plate	AQCE-26-3-P-RM	CE26P	3A"26 cores			
	Tool plate	AQCE-26-3-P-RT	CE26P	3A"26 cores	0.16Kg	A/B	
Tool plate	AQCE-26-3-CD3-P-RT	CE26PC	3A"26 cores (3-digit tool coding, occupies 4 cores)				
High-voltage electrical transmission module	Master plate	AQCP-7-13-RM	13A"7 cores	0.32Kg	A/B		
Tool plate	AQCP-7-13-RT	CP7P		0.24Kg			
High-frequency transmission module	Master plate	AQCF-2-5-W5-LM	5A"2 cores	0.34Kg	A/B		
Tool plate	AQCF-2-5-W1-LT	CF2W1		0.08Kg			
Bus transmission module	Master plate	AQCC-GN-RM	M12-8 core X coding network interface, can be used for Gigabit network transmission	0.36Kg	A/B		
	Tool plate	AQCC-GN-RT		0.26Kg			
	Master plate	AQCC-EN-RM	M12-4-core, D-code bus interface, 7/8-5-core power interface; can be used for transmission of Ethernet, EtherNet/IP, EtherCAT, Profinet, etc	0.38Kg	A/B		
	Tool plate	AQCC-EN-RT		0.28Kg			
	Master plate	AQCC-DN-RM	M12-5-pin bus interface, 7/8-4-core power supply interface; can be used for Devicenet transmission	0.38Kg	A/B		
Tool plate	AQCC-DN-RT	0.28Kg					
Servo transmission module	Master plate	AQCS-6-5-12-W7-LM	Power supply: 5A"6 cores: coding: 3A"10 cores; (cable 7m)	1.43Kg	A/B		
	Tool plate	AQCS-6-5-12-W1-LT		0.22Kg			
	Master plate	AQCS-6-20-12-RM	Power supply: 20A"6 cores: coding: 3A"12 cores	0.53Kg	A/B		
	Tool plate	AQCS-6-20-12-RT		0.58Kg			
Hydraulic fluid module	Master plate	AQCH1-RM	Diameter 7mm"1 path	0.85Kg	A/B		
	Tool plate	AQCH1-RT		0.8Kg			
	Master plate	AQCH2-RM	Diameter 7mm"2 path	1.4Kg	A/B		
	Tool plate	AQCH2-RT		1.3Kg			
Safety docking module	Master plate	AQCV1-RM	Built-in two-position five-way solenoid valve; the master plate can release the tool plate only at the docking station to avoid abnormal fall off	0.78Kg	B		
	Tool plate	AQCV1-RT		0.51Kg			
The above are Aotto's core products, which are usually available from stock. With tens of thousands of applications, Aovita's transmission modules come in thousands of models, which can easily meet various robotic application needs.If the above specifications do not meet your requirements, please feel free to contact our sales team.							

◆ Model

300kg master plate assembly **AQC-300-M** **A** **B** **Status detection sensor**

Side A Side B

Assembly Model Assembly Model

- NLR1W Lock/open/in-position detection (PNP open-circuit wiring)
- NLR2W Lock/open/in-position detection (NPN open-circuit wiring)
- NLR1P Lock/open/in-position detection (PNPM8 Plug)
- NLR2P Lock/open/in-position detection (NPNM8 Plug)

300kg tool plate assembly **AQC-300-T-**

Note: When there are no optional contents in the □□□□ use "NON" as a placeholder. If no placeholder is required, it can be omitted.

AQC-300H

◆ Features

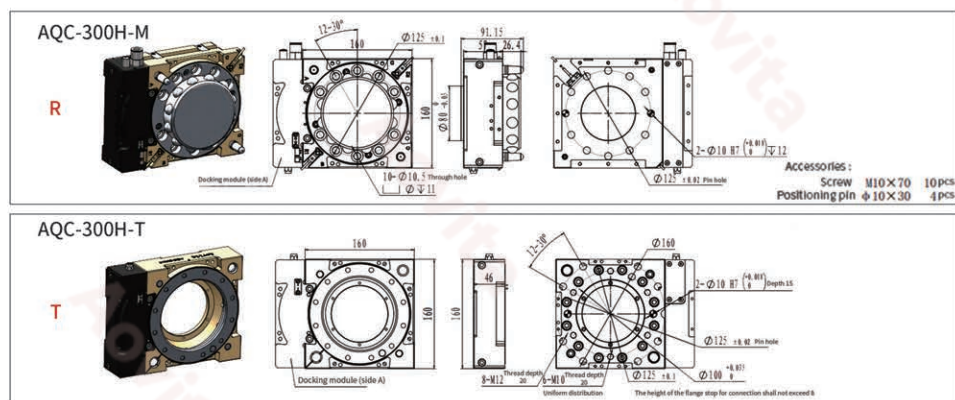
- Load capacity 300Kg
- Adopts steel ball locking mechanism
- The body can integrate locking and opening sensors
- Double air-break protection mechanism
- Applications: assembly, handling, stacking, grinding, deburring, automotive spot welding, etc



◆ Parameters

Body	Model	Master plate	AQC-300H-M
		Tool plate	AQC-300H-T
	Rated load		300Kg
	Repeat positioning accuracy		± 0.02mm
	Allowable static moment	Bending moment	3290N.M
		Torque	3160N.M
	Locking force(0.49Mpa)		48000N
	Material	Locking part	High strength steel
		Body Material	High-strength aviation aluminum alloy
	Weight	Master plate	5.4Kg
		Tool plate	2.6Kg
	Air pressure		0.39-0.7Mpa
	Humidity / Temperature		0-95% (non-condensing) /0-55℃
Dimension (after locking)		160×160×107.1mm	
Body self-sealing air pressure hole (type)		not	

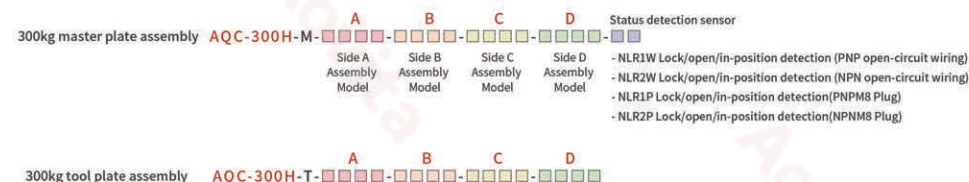
◆ Drawing



◆ Adaptive module

Classification	Model		Assembly model	Specification	Weight	Mounting surface	Diagram
Air port transmission module	Master plate	AQCN-4-10-HM	CN410	G1/4"4 path (no self-sealing)	0.17Kg	A/B/C/D	
	Tool plate	AQCN-4-10-HT			0.16Kg		
Hydraulic fluid module	Master plate	AQCH1-HM	CH1S	Diameter 12mm*1 path	0.53Kg	A/B/C/D	
	Tool plate	AQCH1-HT			0.42Kg		
	Master plate	AQCH2-HM	CH2S	Diameter 12mm*2 path	0.80Kg	A/B/C/D	
	Tool plate	AQCH2-HT			0.73Kg		
	Master plate	AQCH3-HM	CH3S	Diameter 12mm*3 path	1.08Kg	A/B/C/D	
	Tool plate	AQCH3-HT			0.93Kg		
Electrical signal combination module	Master plate	AQCM2 XXX -HM	/	Can integrate with low voltage electric, high voltage electric, communication, servo and other media transmission module, the specific information shall be subject to the drawings provided by Aotto		A/B/C/D Safety docking module	
	Tool plate	AQCM2 XXX -HT					
	Master plate	AQCM3 XXX -HM	/	Can integrate with low voltage electric, high voltage electric, communication, servo and other media transmission module, the specific information shall be subject to the drawings provided by Aotto		A/B/C/D Safety docking module	
	Tool plate	AQCM3 XXX -HT					
Safety docking module	Master plate	AQCV1-HM	CV	Built-in two-position five-way solenoid valve; the master plate can release the tool plate only at the docking station to avoid abnormal fall off	0.75Kg	A	
	Tool plate	AQCV1-HT					
High-voltage electrical transmission module	Master plate	AQCP-3-200-HM	CP3200	200A*3 cores	1.18Kg	A/B/C/D	
	Tool plate	AQCP-3-200-HT					
	Master plate	AQCP-3-600-HM	CP3600	600A*3 cores	1.18Kg	A/B/C/D	
	Tool plate	AQCP-3-600-HT					

◆ Model



Note: When there are no optional contents in the □□□□ use "NON" as a placeholder. If no placeholder is required, it can be omitted.

AQC-500

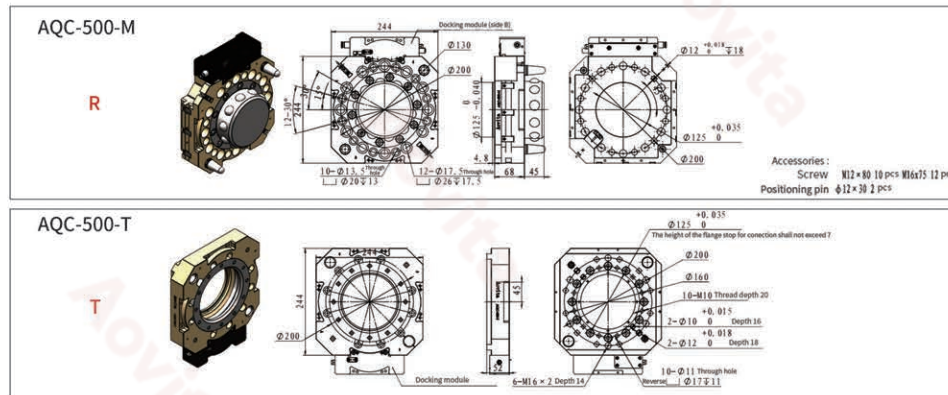
◆ Features

- Load capacity 500Kg
- Adopts steel ball locking mechanism
- The body can integrate locking and opening sensors
- Double air-break protection mechanism
- Applications: assembly, handling, stacking, grinding, deburring, automotive spot welding, etc

◆ Parameters

Body	Model	Master plate	AQC-500-M
		Tool plate	AQC-500-T
	Rated load		500Kg
	Repeat positioning accuracy		±0.02mm
	Allowable static moment	Bending moment	3290N.M
		Torque	3160N.M
	Locking force (0.49Mpa)		48000N
	Material	Locking part	High strength steel
		Body Material	High-strength aviation aluminum alloy
	Weight	Master plate	12.7Kg
		Tool plate	7Kg
	Air pressure		0.39-0.7Mpa
	Humidity / Temperature		0-95% (non-condensing) / 0-55°C
	Dimension (after locking)		244×244×120mm
	Body self-sealing air pressure hole (type)		not

◆ Drawing



◆ Adaptive module

Classification	Model		Assembly model	Specification	Weight	Mounting surface	Diagram
Air port transmission module	Master plate	AQCN-4-10-HM	CN410	G1/4"4 path (no self-sealing)	0.17Kg	A/B	
	Tool plate	AQCN-4-10-HT			0.16Kg		
Hydraulic fluid module	Master plate	AQCH1-HM	CH1S	Diameter 12mm*1 path	0.53Kg	A/B/C/D	
	Tool plate	AQCH1-HT			0.42Kg		
	Master plate	AQCH2-HM	CH2S	Diameter 12mm*2 path	0.80Kg	A/B/C/D	
	Tool plate	AQCH2-HT			0.73Kg		
	Master plate	AQCH3-HM	CH3S	Diameter 12mm*3 path	1.08Kg	A/B/C/D	
	Tool plate	AQCH3-HT			0.93Kg		
Electrical signal combination module	Master plate	AQCM2 XXX-HM	/	Can integrate with low voltage electric, high voltage electric, communication, servo and other media transmission module, the specific information shall be subject to the drawings provided by Aotto		A/B/C/D Safety docking module	
	Tool plate	AQCM2 XXX-HT					
	Master plate	AQCM3 XXX-HM	/	Can integrate with low voltage electric, high voltage electric, communication, servo and other media transmission module, the specific information shall be subject to the drawings provided by Aotto		A/B/C/D Safety docking module	
	Tool plate	AQCM3 XXX-HT					
Safety docking module	Master plate	AQCV2-HM	CV	Built-in two-position five-way solenoid valve; the master plate can release the tool plate only at the docking station to avoid abnormal fall off	0.75Kg	A	
	Tool plate	AQCV1-HT					
High-voltage electrical transmission module	Master plate	AQCP-3-200-HM	CP3200	200A*3 cores	1.18Kg	A/B/C/D	
	Tool plate	AQCP-3-200-HT					
	Master plate	AQCP-3-600-HM	CP3600	600A*3 cores	1.18Kg	A/B/C/D	
	Tool plate	AQCP-3-600-HT					

◆ Model

				Status detection sensor			
500Kg master plate assembly	AQC-500-M	A	B	C	D		
		Side A Assembly Model	Side B Assembly Model	Side C Assembly Model	Side D Assembly Model		
500Kg tool plate assembly	AQC-500-T	A	B	C	D		
		Side A Assembly Model	Side B Assembly Model	Side C Assembly Model	Side D Assembly Model		

- NLR1W Lock/open/in-position detection (PNP open-circuit wiring)
 - NLR2W Lock/open/in-position detection (NPN open-circuit wiring)
 - NLR1P Lock/open/in-position detection (PNPM8 Plug)
 - NLR2P Lock/open/in-position detection (NPNM8 Plug)

Note: When there are no optional contents in the ☐☐☐☐ use "NON" as a placeholder. If no placeholder is required, it can be omitted.

AQCB-630

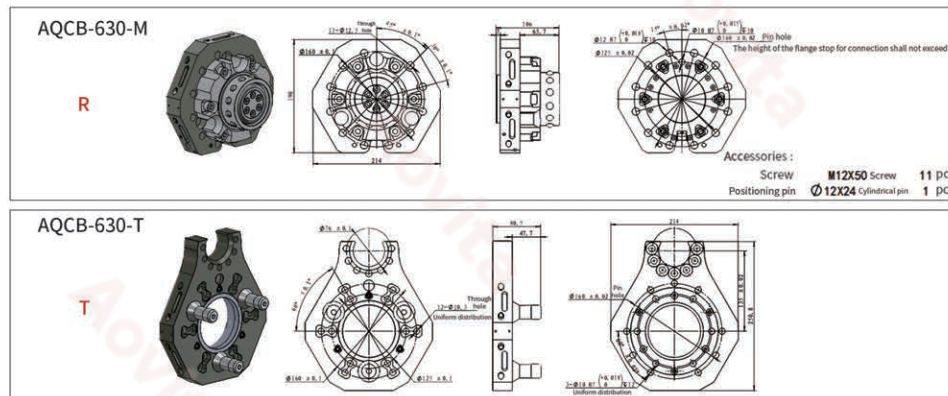
◆ Features

- Load capacity 630Kg
- Adopts steel ball locking mechanism
- The body can integrate locking and opening sensors
- Double air-break protection mechanism
- Applications: assembly, handling, stacking, automotive spot welding, etc

◆ Parameters

Body	Model	Master plate	AQC-630-M
		Tool plate	AQC-630-T
	Rated load		630Kg
	Repeat positioning accuracy		±0.015mm
	Allowable static moment	Bending moment	5000N.M
		Torque	5000N.M
	Locking force (0.49Mpa)		72000N
	Material	Locking part	High strength steel
		Body Material	High-strength aviation aluminum alloy
	Weight	Master plate	5.8Kg
		Tool plate	3.8Kg
	Air pressure		0.39-0.7Mpa
	Humidity / Temperature		0-95% (non-condensing) / 0-55°C
	Dimension (after locking)		Thickness:107mm
	Body self-sealing air pressure hole (type)		not

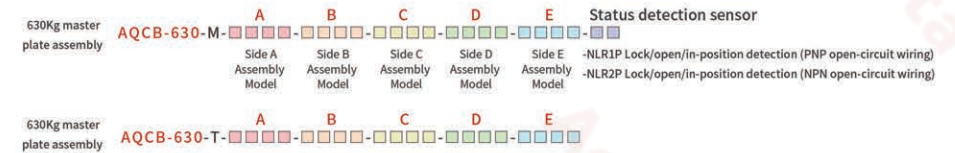
◆ Drawing



◆ Adaptive module

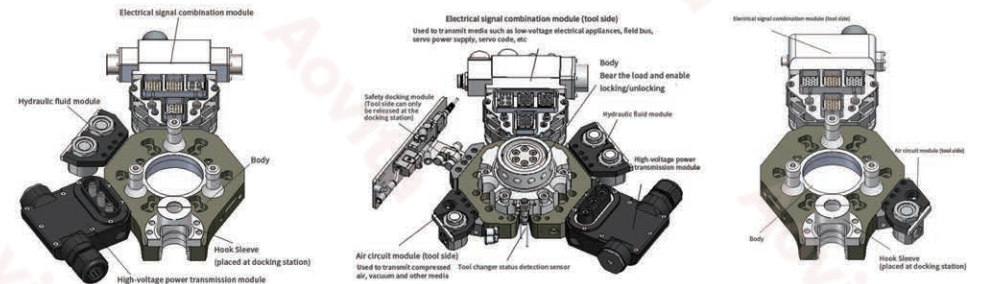
Classification	Model		Assembly model	Specification	Weight	Mounting surface	Diagram
Solenoid valve module	Master plate	AQCV1-SM	CV1SM	Integrate with solenoid valves, pressure detection, safety docking functions and slave module mounting boards		B	
Hydraulic fluid module	Master plate	AQCH1-SM	CH1SM	Diameter 12mm*1 path	0.40Kg	A	
	Tool plate	AQCH1-ST	CH1ST		0.47Kg		
	Master plate	AQCH2-SM	CH2SM	Diameter 12mm*2 path	0.87Kg	D	
	Tool plate	AQCH2-ST	CH2ST		0.87Kg		
	Master plate	AQCH3-SM	CH3SM	Diameter 12mm*3 path	1.3Kg	A	
	Tool plate	AQCH3-ST	CH3ST		1.3Kg		
High-voltage electrical transmission module	Master plate	AQCP-3-200-SM	CP3PM1	150A*3 cores	0.96Kg	B	
	Tool plate	AQCP-3-200-ST	CP3PT1		0.94Kg		
Electrical signal combination module	Master plate	AQCM1XX-SM	CM1CCM	Integrate with bus communication, tool coding and other functions, the specific information is subject to the drawings provided by Aotto	0.82Kg	C	
	Tool plate	AQCM1XX-ST	CM1CCT		0.77Kg		
	Master plate	AQCM4XX-SM	CM4SCCM	Integrate with servo module, bus communication, tool coding and other functions, the specific information is subject to the drawings provided by Aotto	1.60Kg	C	
	Tool plate	AQCM4XX-ST	CM4SCCT		1.39Kg		

◆ Model



Note: When there are no optional contents in the □□□□ use "NON" as a placeholder. If no placeholder is required, it can be omitted.

◆ Application examples



AQC-700

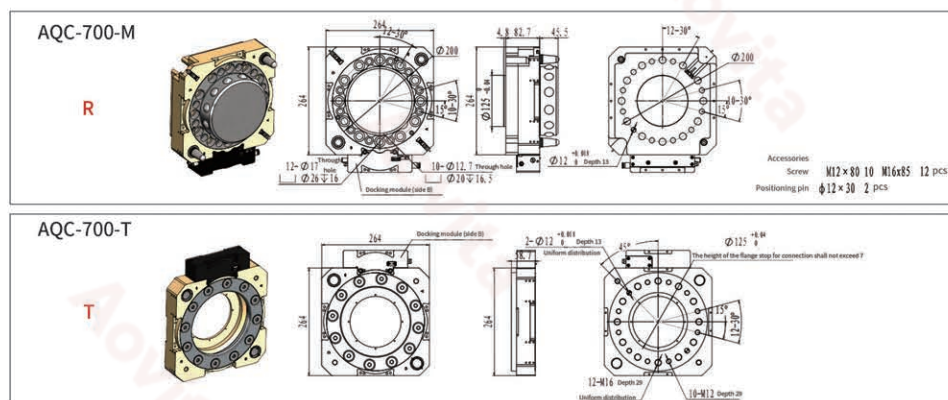
◆ Features

- Load capacity 700Kg
- Adopts steel ball locking mechanism
- The body can integrate locking and opening sensors
- Double air-break protection mechanism
- Applications: assembly, handling, automotive spot welding, etc

◆ Parameters

Body	Model	Master plate	AQC-700-M
		Tool plate	AQC-700-T
	Rated load		700Kg
	Repeat positioning accuracy		±0.025mm
	Allowable static moment	Bending moment	4900N.M
		Torque	3600N.M
	Locking force (0.49Mpa)		65000N
	Material	Locking part	High strength steel
		Body Material	High-strength aviation aluminum alloy
	Weight	Master plate	20Kg
		Tool plate	9Kg
	Air pressure		0.39-0.7Mpa
	Humidity / Temperature		0-95% (non-condensing) / 0-55°C
Dimension (after locking)		264 × 264 × 141.5mm	
Body self-sealing air pressure hole (type)		not	

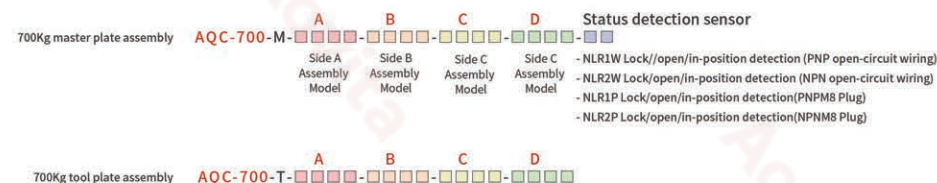
◆ Drawing



- ◆ Adaptive module

Classification	Model		Assembly model	Specification	Weight	Mounting surface	Diagram
Air port transmission module	Master plate	AQCN-4-10-HM	CN410	G1/4"4 path (no self-sealing)	0.17Kg	A/B	
	Tool plate	AQCN-4-10-HT			0.16Kg		
Hydraulic fluid module	Master plate	AQCH1-HM	CH1S	Diameter 12mm*1 path	0.53Kg	A/B/C/D	
	Tool plate	AQCH1-HT			0.42Kg		
	Master plate	AQCH2-HM	CH2S	Diameter 12mm*2 path	0.80Kg	A/B/C/D	
	Tool plate	AQCH2-ST			0.73Kg		
	Master plate	AQCH3-HM	CH3S	Diameter 12mm*3 path	1.08Kg	A/B/C/D	
	Tool plate	AQCH3-HT			0.93Kg		
Electrical signal combination module	Master plate	AQCM2 XXX -HM	/	Can integrate with low voltage electric, high voltage electric, communication, servo and other media transmission module, the specific information shall be subject to the drawings provided by Aotto		A/B/C/D Safety docking module	
	Tool plate	AQCM2 XXX -HT					
	Master plate	AQCM3 XXX -HM	/	Can integrate with low voltage electric, high voltage electric, communication, servo and other media transmission module, the specific information shall be subject to the drawings provided by Aotto		A/B/C/D Safety docking module	
	Tool plate	AQCM3 XXX -HT					
Safety docking module	Master plate	AQCV1-HM	CV	Built-in two-position five-way solenoid valve; the master plate can release the tool plate only at the docking station to avoid abnormal fall off	0.75Kg	A	
	Tool plate	AQCV1-HT					
High-voltage electrical transmission module	Master plate	AQCP-3-200-HM	CP3200	200A*3 cores	1.18Kg	A/B/C/D	
	Tool plate	AQCP-3-200-HT					
	Master plate	AQCP-3-600-HM	CP3600	600A*3 cores	1.18Kg	A/B/C/D	
	Tool plate	AQCP-3-600-HT					

◆ Model



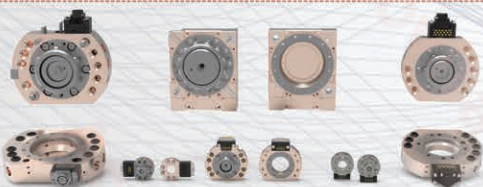
Note: When there are no optional contents in the ☐☐☐☐ use "NON" as a placeholder. If no placeholder is required, it can be omitted.

Aovita

Product List

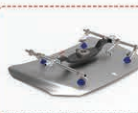


Robot tool changer standard



Aovita robot changer is used to change multiple sets of grippers by one robot. The robot can be used for multiple purposes.

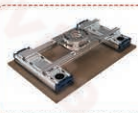
Vacuum products



Vacuum suction cup
Used for gripping and handling of metal sheets, glass and plastic parts, etc



Octopus sucker
Used for gripping and handling of products such as packing boxes, bags, etc



Sponge sucker
Used for gripping and handling of products such as wooden boards, packing boxes, etc

Gripper

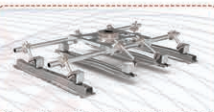


Pneumatic gripper
Used for gripping and handling of metal sheet workpieces



Pneumatic gripper
Used in automatic loading and unloading systems for machining
Used for gripping and handling of shafts/disks/shells and other workpieces

Magnetic suction



Magnetic chuck
Used for gripping and handling of metal sheet workpieces

Needle gripper



Needle gripper
Used for gripping and handling of air permeable products such as carpets and felts, etc

Intelligent gripper connector

Aovita connector can be used to quickly assemble various body frames for EOAT.

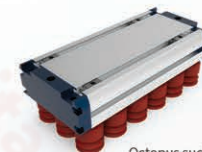


Vacuum product

Aovita vacuum products can quickly combine the necessary grippers for metal stamping plate handling, logistics packaging handling, woodworking handling, injection molding handling, etc.



Pneumatic element of vacuum suction cup



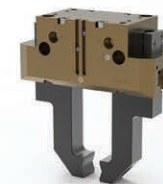
Octopus sucker



Sponge sucker

Clamp

Aovita pneumatic gripper can be used to quickly assemble the grippers required for the handling of machining, loading & unloading, high-speed stamping and other work.



Parallel gripper



Clamp

Magnetic suction

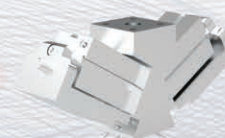
Aovita magnetic chuck standard can be used to quickly assemble the grippers required for metal sheet handling and other work.



Magnetic chuck

Needle gripper

Aovita needle suction cup can be used to quickly combine the grippers required for carpet and felt handling.



Needle suction cup