

## OVERALL SOLUTIONS FOR ROBOTIC END-EFFECTOR

- ★ EOAT FOR STAMPING
  - EOAT FOR TANDEM PRESS LINE
  - EOAT FOR TRANSFER LINE
  - EOAT FOR HOT FORMING LINE
- ★ PNEUMATIC GRIPPERS
- ★ ELECTRIC GRIPPERS
- ★ ROBOTIC TOOL CHANGERS
- ★ HYDRAULIC CLAMPS

### Jinan Aotto Technologies Co., Ltd.

Addr: Room 801, Building 3, Zone 2, Jianda Hexin Industry Base,  
Jinan Innovation Valley Accelerator , Changqing District,  
Jinan City, Shandong Province, China.

Website: <https://aotto.en.alibaba.com>

Email: [Marketing@aotto.cn](mailto:Marketing@aotto.cn)

Tel: 0531- 87201565

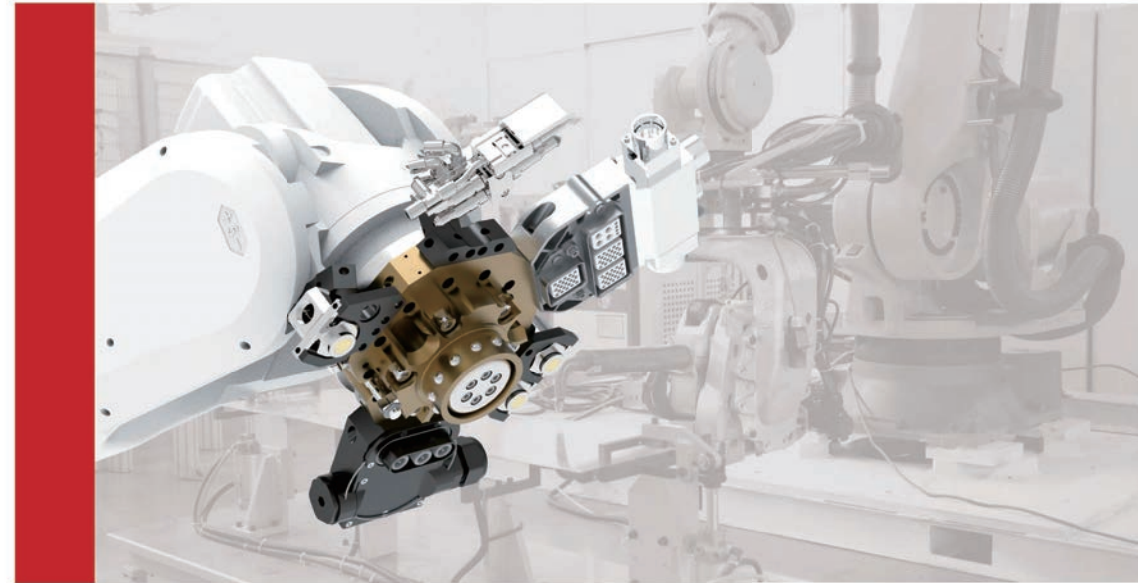
Web: [www.aottotech.com](http://www.aottotech.com)



Learn more

Ver. 2026-04

## ROBOTIC 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 Aosaft 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

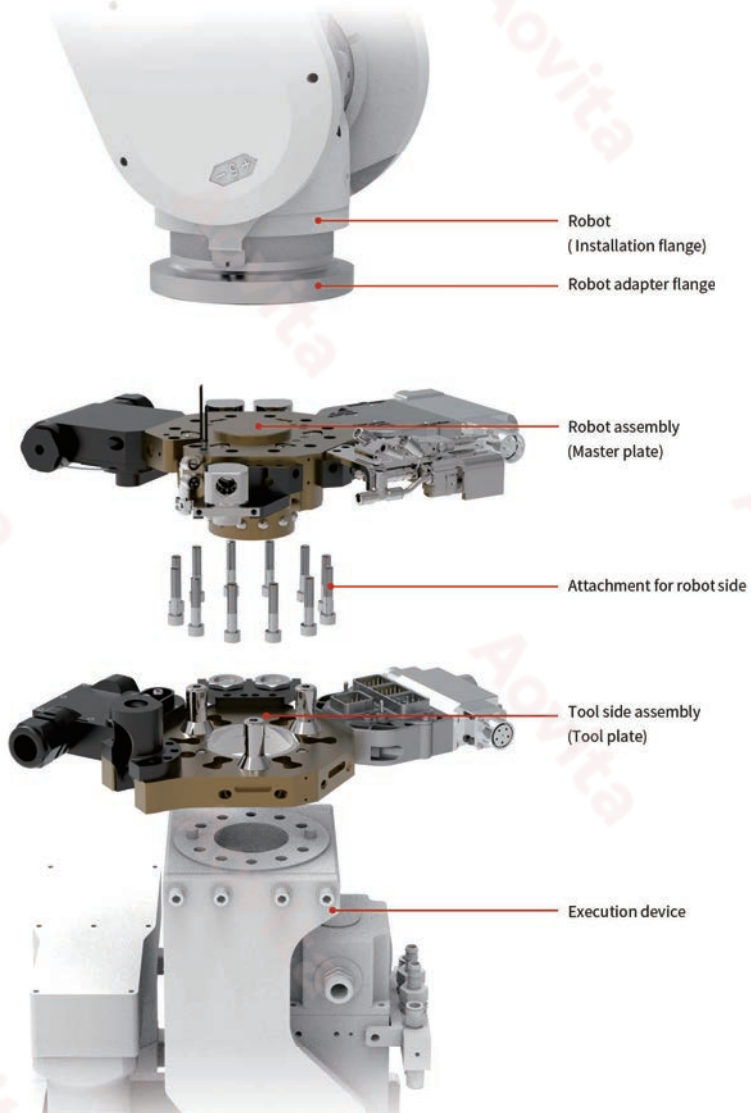


## CONTENTS

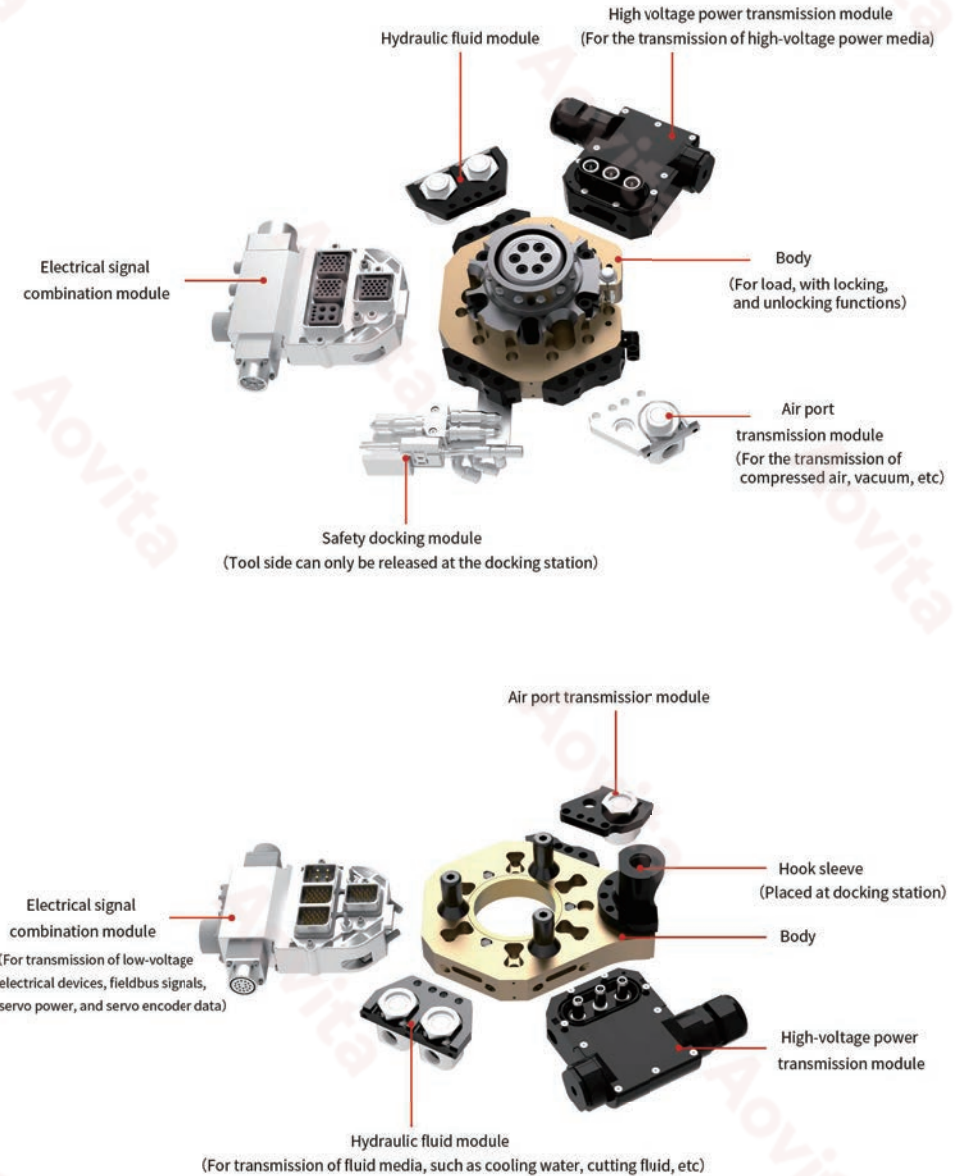
### Aovita® Robotic tool changer

• Structure .....	P01
• Advantages .....	P03
• Selection .....	P04
Model	
• AQCB-6 .....	P05
• AQCB-12.....	P07
• AQCB-20 .....	P09
• AQCB-40 .....	P11
• AQCB-70 .....	P13
• AQCB-150 .....	P15
• AQCB-200 .....	P17
• AQCB-300 .....	P19
• AQCB-300H .....	P21
• AQCB-500 .....	P23
• AQCB-630 .....	P25
• AQCB-700 .....	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

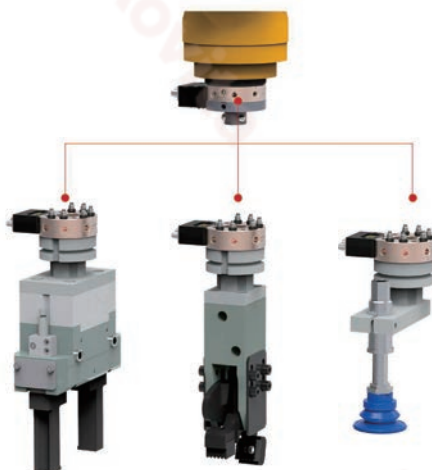
Work with multiple execution tools  
Multi-purpose machine  
Reduce the number of robots employed

#### • 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

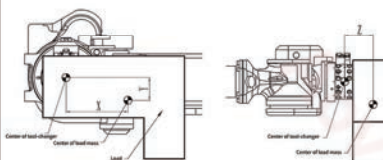
With modular design, Aovita products can be adapted to almost any robot application. Only 3 steps, you can configure your tool changer assembly perfectly.

#### 1. Select the tool changer body (locking unit)

##### • Simple selection

☆ Tool changer load > Robot load

##### • Precise selection

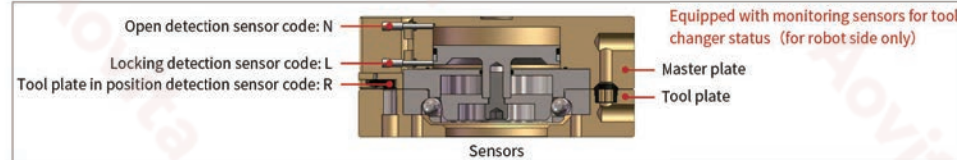


① Rated load >  $M_B = M_{工件} + M_{工具} + M_{外力}$

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

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

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



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

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] [Transmission] [Transmission]	-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 (PNPMS Plug) -NLR2P Lock/open/in-position detection (NPNMS Plug)
	Model (body) - [A] [B]	
Tool plate assembly	Model (body) - [A] [B]	

Specific model details can be found on the details page

## AQCB -6

### ◆ Features

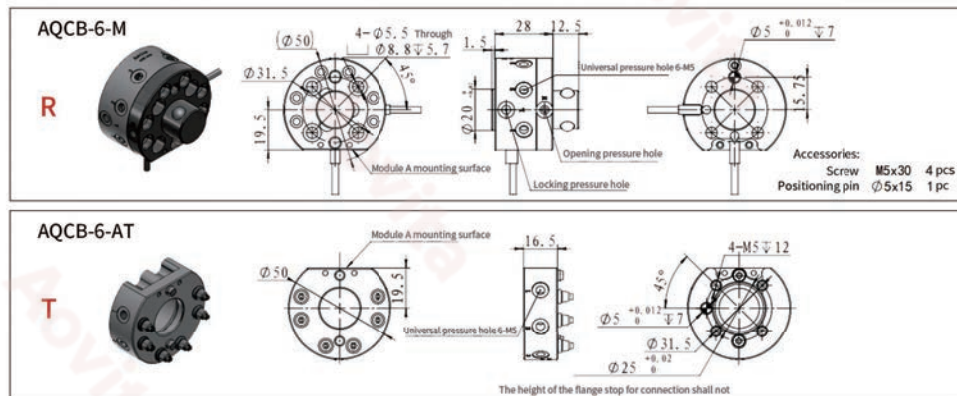
- Load capacity 6Kg
- Adopts steel ball locking mechanism
- Main plate integrates 6 self-sealing air holes
- The body can integrate locking and opening sensors
- Double air-break protection mechanism
- Widely used in 3C, semiconductor assembly, handling, and robotic education industries

### ◆ Parameters

Body	Model	Master plate	AQCB-6-M	
		Tool plate	AQCB-6-AT	
	Rated load	6Kg		
	Repeat positioning accuracy	±0.01mm		
	Allowable static moment	Bending moment	16.6N·M	
		Torque	20N·M	
	Locking force (0.49Mpa)	625N		
	Material	Locking part	High strength steel	
		Body Material	High-strength aviation aluminum alloy	
	Weight	Master plate	0.19Kg	
		Tool plate	0.066Kg	
	Air pressure	0.39-0.7Mpa		
	Humidity / Temperature	0-95% (non-condensing) / 0-55°C		
	Dimension (after locking)	φ50×44.5mm		
Body self-sealing air pressure hole (type)	6-M5 (Master plate self sealing)			



### ◆ Drawing



### ◆ Adaptive module

Classification	Model		Assembly model	Specification	Weight	Mounting surface	Diagram
Low voltage electrical transmission module	Master plate	AQCE-9-1-P-SLM	CE9P	1A*9 core	0.05KG	A	
	Tool plate	AQCE-9-1-P-SLT					
	Master plate	AQCE-15-1-P-SLM	CE15P	1A*15 core	0.06KG	A	
	Tool plate	AQCE-15-1-P-SLT					
	Master plate	AQCE-10-1-W5-SLM	CE10W5	1A*10 core (5m cable)	0.79KG	A	
	Master plate	AQCE-10-1-W0-SLM	CE10W0	1A*10 core (No Cable)	0.09KG		
	Tool plate	AQCE-10-1-W1-SLT	CE10W1	1A*10 core (1m cable)	0.23KG	A	
	Tool plate	AQCE-10-1-W0-SLT	CE10W0	1A*10 core (No Cable)	0.09KG		

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

6kg master plate assembly AQCB-6-M---  
 Status detection sensor  
 Side A  
 Assembly Model  
 - NL1W Lock/open/in-position detection (PNP open-circuit wiring)  
 - NL2W Lock/open/in-position detection (NPN open-circuit wiring)

6kg tool plate assembly AQCB-6-AT--  
 Status detection sensor  
 Side A  
 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-70

### ◆ Features

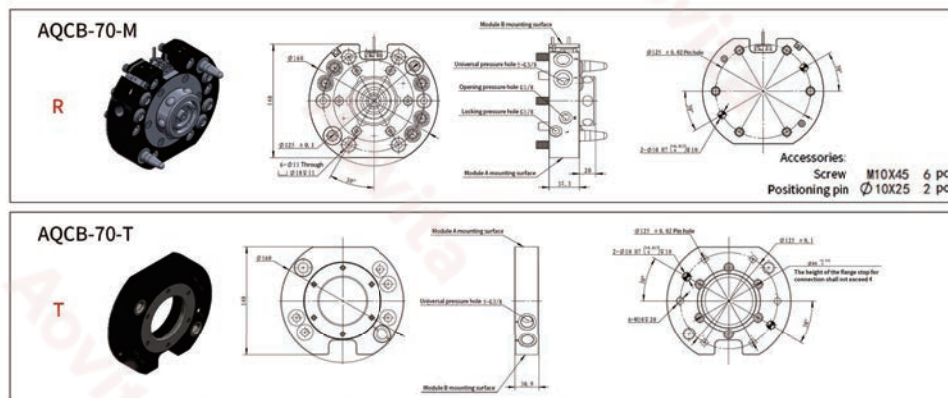
- Load capacity 70Kg
- Adopts steel ball locking mechanism
- The body can integrate locking and opening sensors
- Double air-break protection mechanism
- Applications: assembly, handling, stacking, grinding, deburring, etc



### ◆ Parameters

Body	Model	Master plate	AQCB-70-M
			Tool plate
	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)			
	Tool plate AQCE-12-3-CD3-W1-LT	CE12W1C	3A*8 cores ( 1m cable with 3-digit tool coding, occupies 4 cores)	0.13Kg		
	Master plate AQCE-26-3-W7-RM	CE26W7	3A*26 cores (7m cable)	2.50Kg		
	Tool plate AQCE-26-3-W1-RT	CE26W1	3A*26 cores (1m cable)		A/B	
	Tool plate AQCE-26-3-CD3-W1-RT	CE12W1C	3A*22 cores ( 1m cable with 3-digit tool coding, occupies 4 cores)	0.35Kg		
	Master plate AQCE-19-3-P-RM	CE19P	3A*19 cores	0.24Kg		
	Tool plate AQCE-19-3-P-RT			0.16Kg	A/B	
	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		
Tool plate AQCE-26-3-P-RT			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	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-W5-LM	CSSW5	Power supply: 5A*6 cores: coding: 3A*10 cores; (cable 5m)	0.7Kg	A	
	Tool plate AQCS-6-5-12-W1-LT	CSSW1	Power supply: 5A*6 cores: coding: 3A*10 cores; (cable 1m)	0.3Kg		
Hydraulic fluid module	Master plate AQCH1-RM	CH1M	Diameter 7mm*1 path	0.85Kg	A/B	
	Tool plate AQCH1-RT	CH1T		0.8Kg		
Safety docking module	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

The above are Aovita'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.

70kg master plate assembly AQCB-70-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)
- NLR1P Lock/open/in-position detection (PNPMS Plug)
- NLR2P Lock/open/in-position detection (NPNMS Plug)

70kg tool plate assembly AQCB-70-T-■■■■■■■

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



## AQCB-200

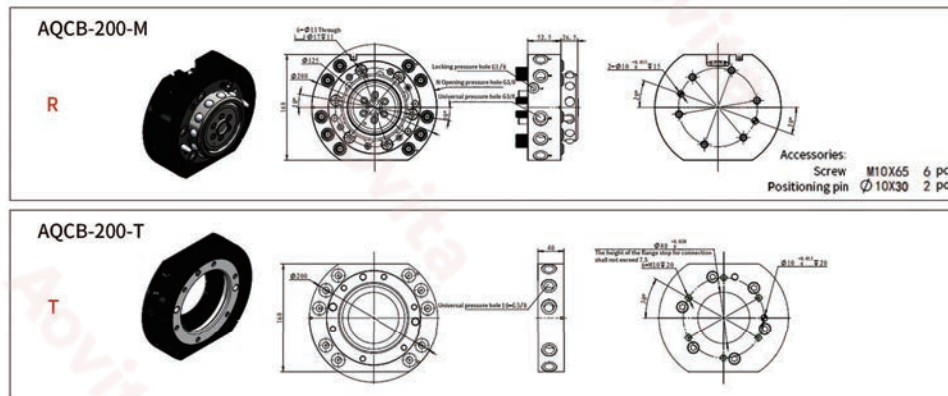
### ◆ Features

- Load capacity 200Kg
- 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	AQCB-200-M
		Tool plate	AQCB-200-T
	Rated load		200Kg
	Repeat positioning accuracy		±0.015mm
	Allowable static moment	Bending moment	1360N·M
		Torque	1270N·M
	Locking force (0.49Mpa)		19800N
	Material	Locking part	High strength steel
		Body Material	High-strength aviation aluminum alloy
	Weight	Master plate	4.8Kg
		Tool plate	2.5Kg
	Air pressure		0.39-0.7Mpa
	Humidity / Temperature		0-95% (non-condensing) / 0-55°C
	Dimension (after locking)		φ200×87mm
	Body self-sealing air pressure hole (type)		10-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 (no 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)	0.13Kg	A/B	
	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		
	Master plate AQCE-26-3-CD3-W1-RT	CE12W1C	3A*22 cores (1m cable with 3-digit tool coding, occupies 4 cores)	0.24Kg	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	0.16Kg	A/B	
	Tool plate AQCE-19-3-P-RT					
Master plate AQCE-19-3-CD3-P-RT	CE19PC	3A*15 cores (3-digit tool coding, occupies 4 cores)	0.25Kg	A/B		
Tool plate AQCE-19-3-CD3-P-RT						CE19PC
Master plate AQCE-26-3-P-RM	CE26P	3A*26 cores	0.16Kg	A/B		
Tool plate AQCE-26-3-P-RT						CE26P
Master plate AQCE-26-3-CD3-P-RT	CE26PC	3A*26 cores (3-digit tool coding, occupies 4 cores)	0.16Kg	A/B		
Tool plate AQCE-26-3-CD3-P-RT						CE26PC
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	CP7P			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, 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-W5-LM	CS5W5	Power supply: 5A*6 cores: coding: 3A*10 cores; (cable 5m)	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		
	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 masterplate can release the tool plate only at the docking station to avoid abnormal fall off	0.78Kg	B	
	Tool plate AQCV1-RT	CV1T		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

- 200kg master plate assembly AQCB-200-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)
  - NLR1P Lock/open/in-position detection (PNPM8 Plug)
  - NLR2P Lock/open/in-position detection (NPNM8 Plug)

- 200kg tool plate assembly AQCB-200-T-■■■■■

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

## AQCB-300

### ◆ Features

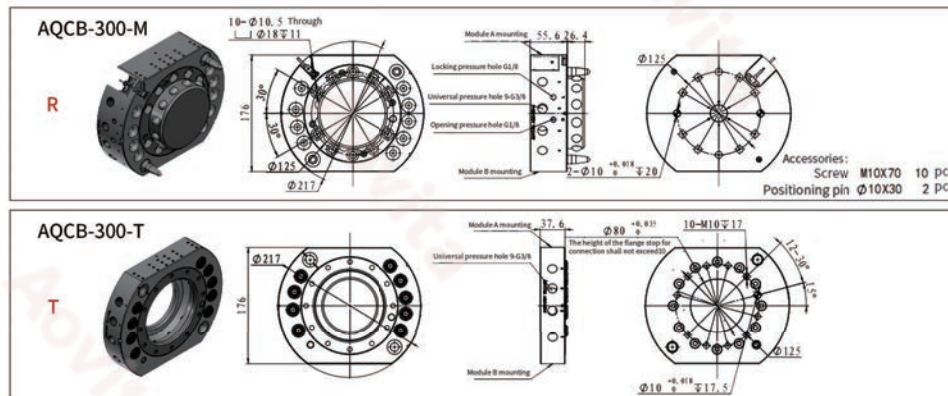
- Load capacity 300Kg
- Adopts steel ball locking mechanism
- The body can integrate locking and opening sensors
- Double air-break protection mechanism
- Applications: assembly, handling, stacking, grinding, deburring, etc

### ◆ Parameters

Body	Model	Master plate	AQCB-300-M
		Tool plate	AQCB-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°C
	Dimension (after locking)		φ217 × 93.2mm
Body self-sealing air pressure hole (type)		9-G3/8	



### ◆ 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		
	Master plate	AQCN-1-50-RM	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	3A"12 cores (5m cable)	1.20Kg	A/B	
	Tool plate	AQCE-12-3-W1-LT	3A"12 cores (1m cable)	0.13Kg		
	Master plate	AQCE-12-3-CD3-W1-LT	3A"8 cores (1m cable with 3-digit tool coding, occupies 4 cores)	2.50Kg	A/B	
	Tool plate	AQCE-12-3-CD3-W1-LT	3A"8 cores (1m cable with 3-digit tool coding, occupies 4 cores)			
	Master plate	AQCE-26-3-W7-RM	3A"26 cores (7m cable)	0.35Kg	A/B	
	Tool plate	AQCE-26-3-W1-RT	3A"26 cores (1m cable)			
	Master plate	AQCE-26-3-CD3-W1-RT	3A"22 cores (1m cable with 3-digit tool coding, occupies 4 cores)	0.24Kg	A/B	
	Tool plate	AQCE-26-3-CD3-W1-RT	3A"22 cores (1m cable with 3-digit tool coding, occupies 4 cores)			
	Master plate	AQCE-19-3-P-RM	3A"19 cores	0.16Kg	A/B	
	Tool plate	AQCE-19-3-P-RT	3A"19 cores			
Master plate	AQCE-19-3-CD3-P-RT	3A"15 cores (3-digit tool coding, occupies 4 cores)	0.25Kg	A/B		
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	3A"26 cores	0.16Kg	A/B		
Tool plate	AQCE-26-3-P-RT	3A"26 cores				
Master plate	AQCE-26-3-CD3-P-RT	3A"26 cores (3-digit tool coding, occupies 4 cores)	0.32Kg	A/B		
Tool plate	AQCE-26-3-CD3-P-RT	3A"26 cores (3-digit tool coding, occupies 4 cores)				
High-voltage electrical transmission module	Master plate	AQCP-7-13-RM	13A"7 cores	0.24Kg	A/B	
	Tool plate	AQCP-7-13-RT	13A"7 cores	0.24Kg	A/B	
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		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, EtherNetIP, 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-W5-LM	Power supply: 5A"6 cores: coding: 3A"10 cores; (cable 5m)	0.7Kg	A/B	
	Tool plate	AQCS-6-5-12-W1-LT	Power supply: 5A"6 cores: coding: 3A"10 cores; (cable 1m)	0.3Kg		
	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 masterplate 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

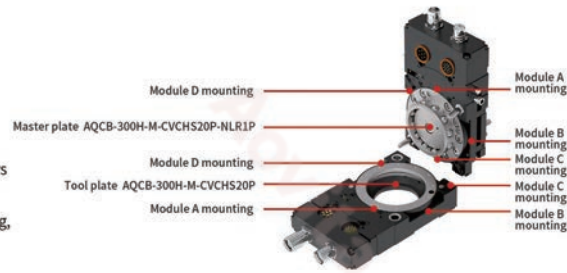
- 300kg master plate assembly **AQCB-300-M** - Status detection sensor
- NLR1W Lock/open/in-position detection (PNP open-circuit wiring)
  - NLR2W Lock/open/in-position detection (NPN open-circuit wiring)
  - NLR1P Lock/open/in-position detection (PNPM8 Plug)
  - NLR2P Lock/open/in-position detection (NPNM8 Plug)
- 300kg tool plate assembly **AQCB-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.

## AQCB-300H

### ◆ Features

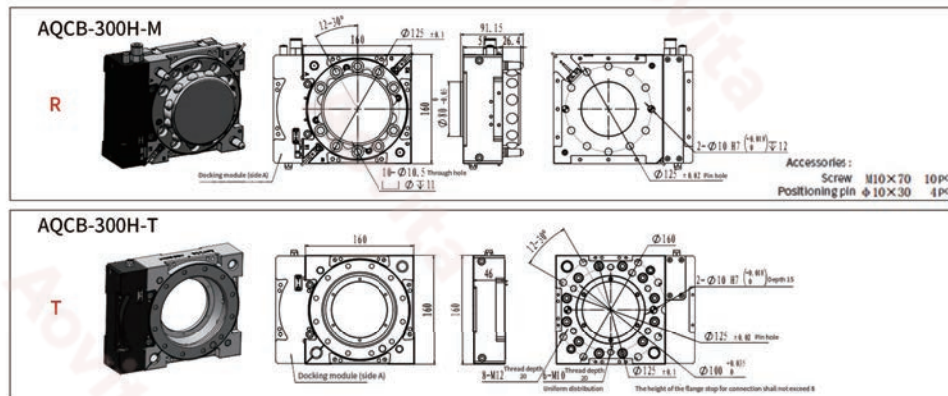
- Load capacity 300Kg
- Adopts steel ball locking mechanism
- The body can integrate locking and opening sensors
- Double air-break protection mechanism
- Applications: assembly, handling, stacking, grinding, deburring, automotive spot welding, etc



### ◆ Parameters

Body	Model	Master plate	AQCB-300H-M
		Tool plate	AQCB-300H-T
	Rated load		300Kg
	Repeat positioning accuracy		±0.02mm
	Allowable static moment	Bending moment	2710N·M
		Torque	2260N·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°C
	Dimension (after locking)		160×160×107.1mm
	Body self-sealing air pressure hole (type)		not

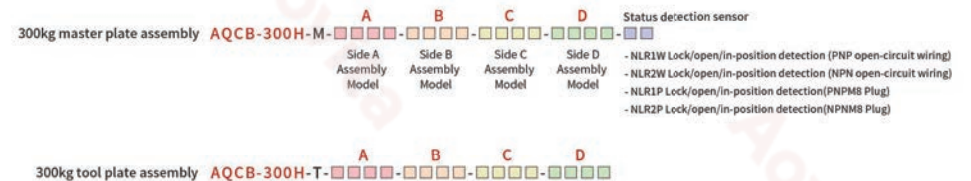
### ◆ Drawing



### ◆ 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



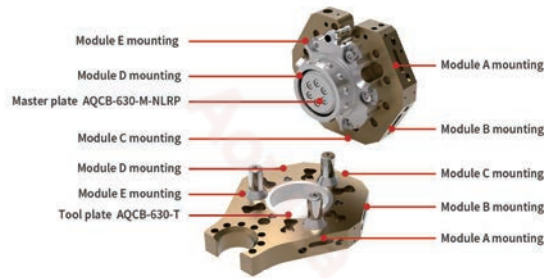
Note: When there are no optional contents in the  use "NON" as a placeholder. If no placeholder is required, it can be omitted.



## AQC-630

### ◆ Features

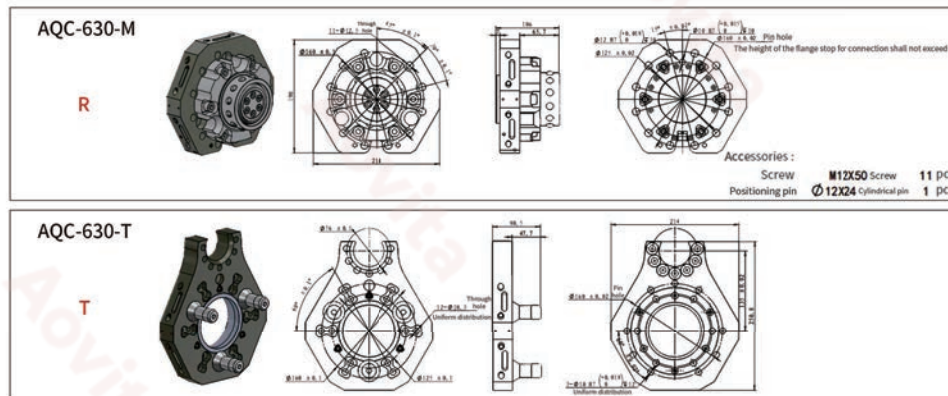
- Load capacity 630Kg
- Adopts steel ball locking mechanism
- The body can integrate locking and opening sensors
- Double air-break protection mechanism
- Applications: assembly, handling, stacking, automotive spot welding, etc



### ◆ 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			

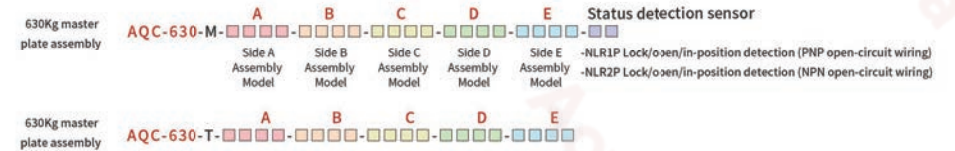
### ◆ Drawing



### ◆ Adaptive module

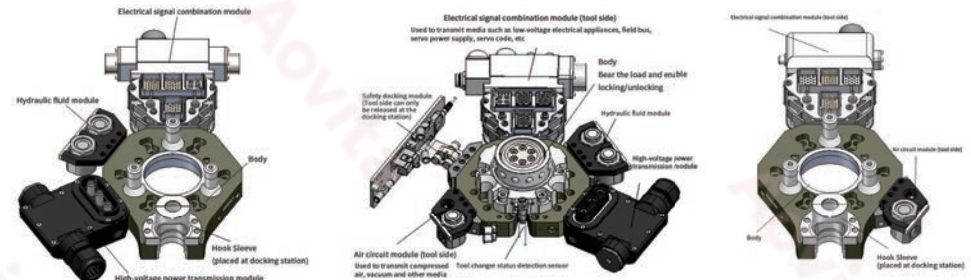
Classification	Model	Assembly model	Specification	Weight	Mounting surface	Diagram
Solenoid valve module	Master plate AQC-630-M-NLRP	AQCV1-SM	CV1SM		B	
Hydraulic fluid module	Master plate	AQCH1-SM	CH1SM	0.40Kg	A	
	Tool plate	AQCH1-ST	CH1ST	0.47Kg		
	Master plate	AQCH2-SM	CH2SM	0.87Kg	D	
	Tool plate	AQCH2-ST	CH2ST	0.87Kg		
	Master plate	AQCH3-SM	CH3SM	1.3Kg	A	
	Tool plate	AQCH3-ST	CH3ST	1.3Kg		
High-voltage electrical transmission module	Master plate	AQCP-3-200-SM	CP3PM1	0.96Kg	B	
	Tool plate	AQCP-3-200-ST	CP3PT1	0.94Kg		
Electrical signal combination module	Master plate	AQCM1XX-SM	CM1CCM	0.82Kg	C	
	Tool plate	AQCM1XX-ST	CM1CCT	0.77Kg		
	Master plate	AQCM4XXX-SM	CM4SCCM	1.60Kg	C	
	Tool plate	AQCM4XXX-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



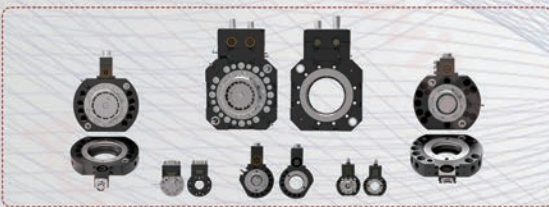


# Aovita

## Product List

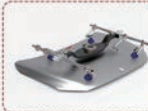


Robot tool changer standard



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.

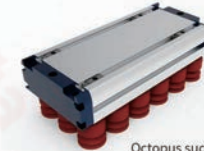


### Vacuum product

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.



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