

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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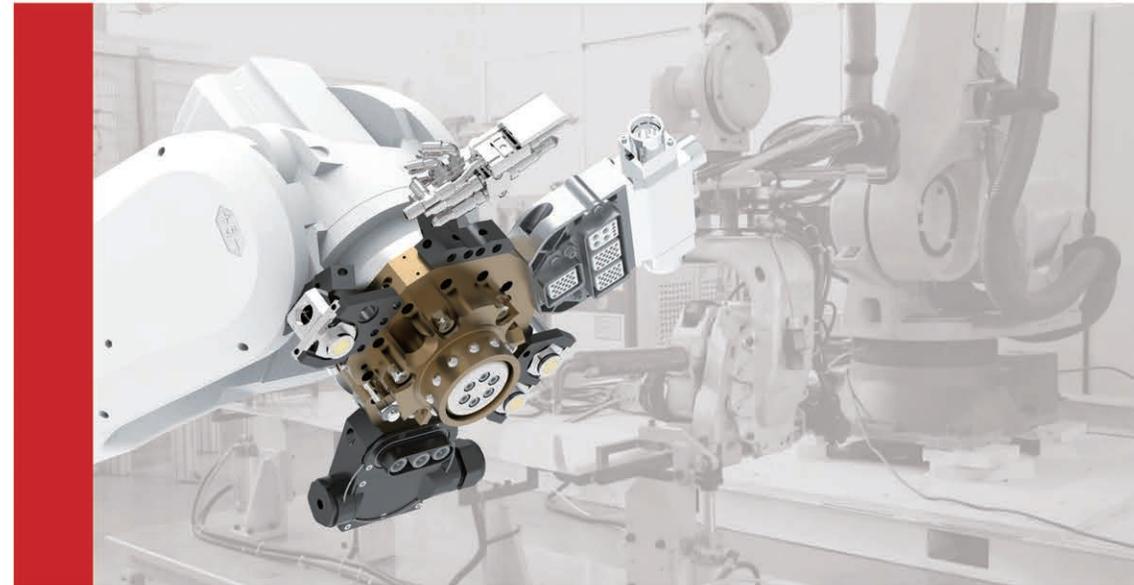
Web : www.eaotto.com



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

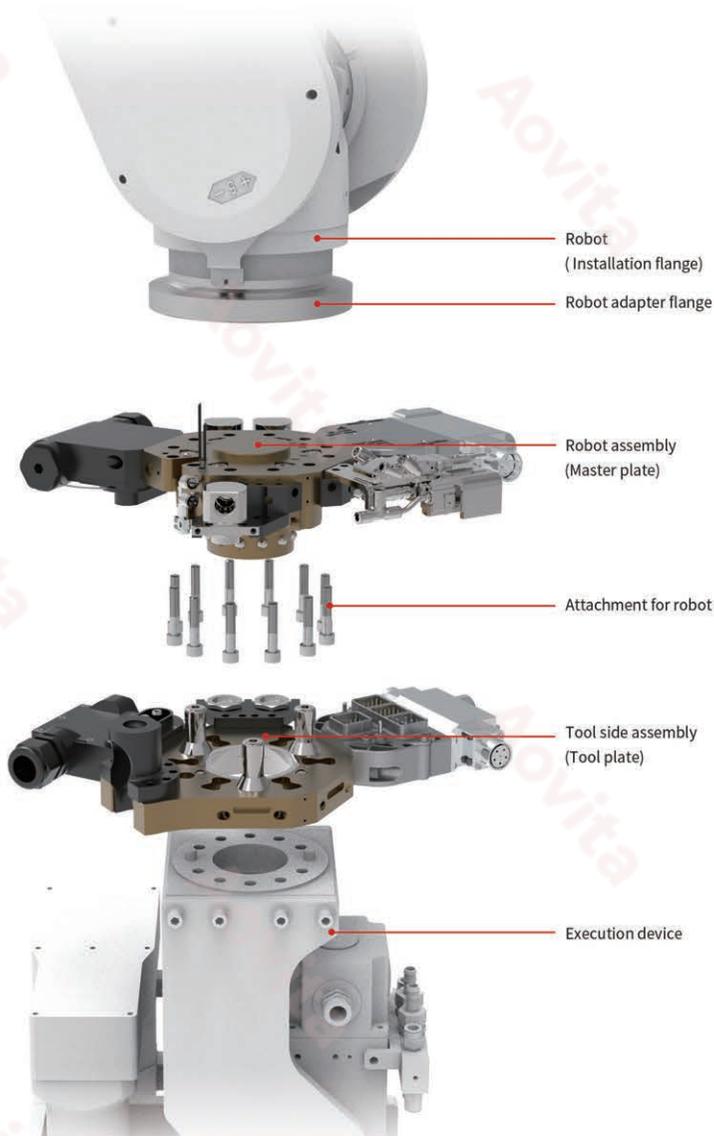


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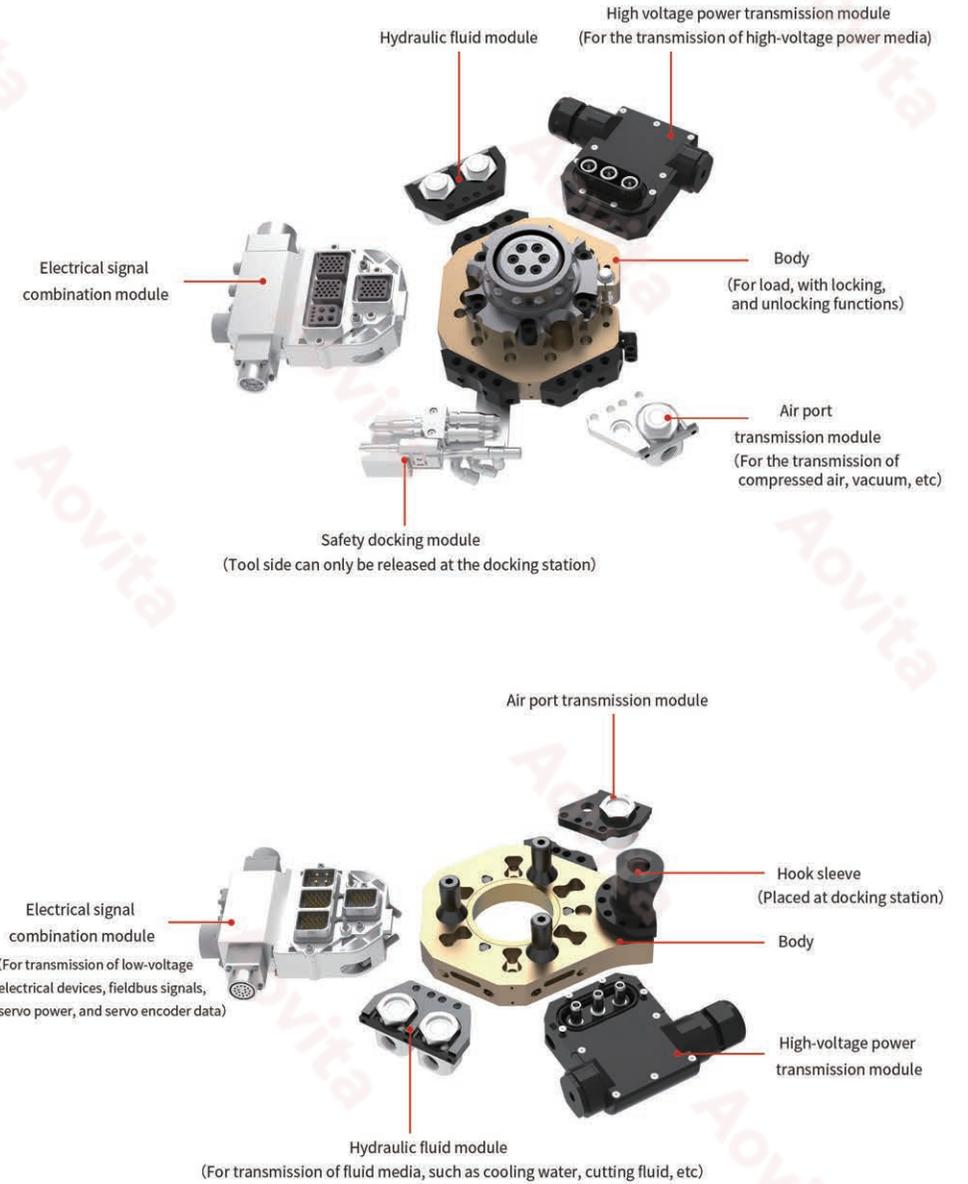
Aovita® Robotic tool changer

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◆ Structure



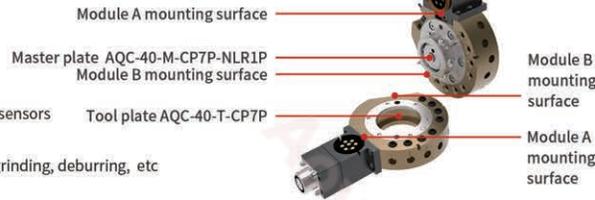
◆ Structure



AQC-40

◆ Features

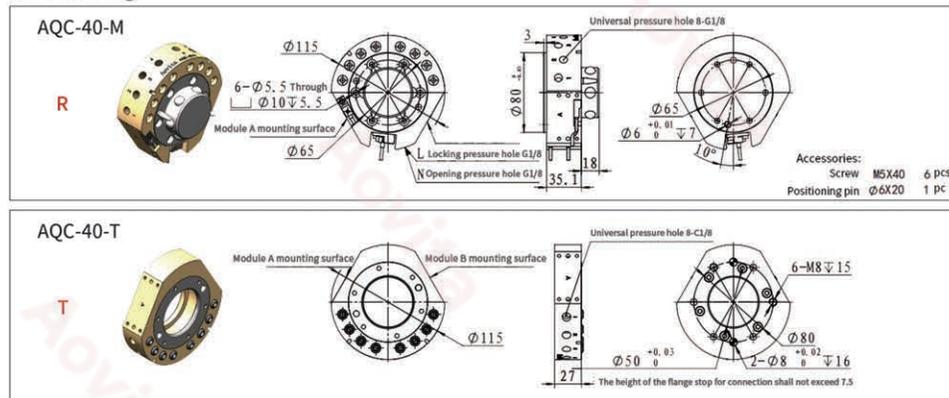
- Load capacity 40Kg
- Adopts steel ball locking mechanism
- The body can integrate locking and opening sensors
- Double air-break protection mechanism
- Applications: assembly, handling, stacking, grinding, deburring, etc



◆ 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°C |
| | 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" 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" 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) | 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 | 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 | CE26P | 3A*15 cores (3-digit tool coding, occupies 4 cores) | 0.25KG | A/B | |
| | Master plate | AQCE-26-3-P-RM | | | | | |
| | Tool plate | AQCE-26-3-P-RT | CE26PT | 3A*26 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 | | | 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 | | | 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) | 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** 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)
- 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

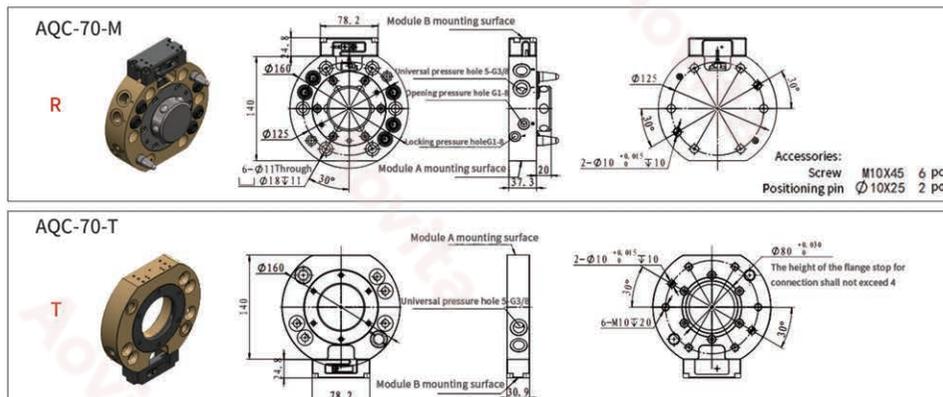
- Load capacity 70Kg
- Adopts steel ball locking mechanism
- The body can integrate locking and opening sensors
- Double air-break protection mechanism
- Applications: assembly, handling, stacking, grinding, deburring, etc



◆ 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 | 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 (Master plate 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 | |
| | 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-26-3-W7-RM | 3A*26 cores (7m cable) | | | |
| | Master plate | AQCE-26-3-W1-RT | 3A*26 cores (1m cable) | 0.35Kg | A/B | |
| | Tool plate | AQCE-26-3-P-RM | 3A*22 cores (1m cable with 3-digit tool coding, occupies 4 cores) | | | |
| | Master plate | AQCE-19-3-P-RM | 3A*19 cores | 0.24Kg | A/B | |
| | Tool plate | AQCE-19-3-P-RT | | 0.16Kg | | |
| | 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-26-3-P-RM | 3A*26 cores | | | |
| Master plate | AQCE-26-3-P-RT | 3A*26 cores | 0.16Kg | 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 | 0.32Kg | A/B | |
| Tool plate | AQCP-7-13-RT | | 0.24Kg | | | |
| High-frequency transmission module | Master plate | AQCF-2-5-W5-LM | 5A*2 cores | 0.34Kg | A | |
| 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, 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-WT-LM | Power supply: 5A*6 cores: coding: 3A*10 cores; (cable 7m) | 1.43Kg | A | |
| | Tool plate | AQCS-6-5-12-W1-LT | Power supply: 5A*6 cores: coding: 3A*10 cores; (cable 1m) | 0.22Kg | | |
| | Master plate | AQCS-6-20-12-RM | 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 | Diameter 7mm*1 path | 0.85Kg | A/B | |
| | Tool plate | AQCH1-RT | | 0.8Kg | | |
| | Master plate | AQCH2-RM | Diameter 7mm*1 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 | A | |
| | Tool plate | AQCV1-RT | | 0.51Kg | | |

◆ Model

70kg master plate assembly **AQC-70-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)

70kg tool plate assembly **AQC-70-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-300

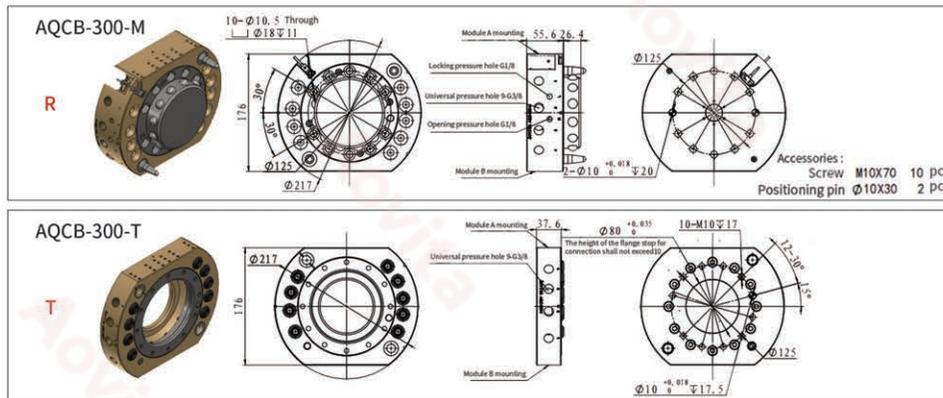
◆ Features

- 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°C |
| | 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 | | |
| | 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-26-3-W7-RM | 3A*26 cores (7m cable) | 2.50Kg | A/B | |
| | Tool plate | AQCE-26-3-W1-RT | 3A*26 cores (1m cable) | 0.35Kg | | |
| | Master plate | AQCE-19-3-P-RM | 3A*19 cores | 0.24Kg | A/B | |
| | Tool plate | AQCE-19-3-P-RT | | 0.16Kg | | |
| | 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-26-3-P-RM | | 0.16Kg | | |
| | Master plate | AQCE-26-3-P-RT | 3A*26 cores (3-digit tool coding, occupies 4 cores) | 0.25Kg | A/B | |
| | Tool plate | AQCE-26-3-CD3-P-RT | | 0.16Kg | | |
| High-voltage electrical transmission module | Master plate | AQCP-7-13-RM | 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 | 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, 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 | Power supply: 5A*6 cores; coding: 3A*10 cores; (cable 1m) | 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 | | |
| 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 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.

◆ Model

- 300kg master plate assembly AQC-300-M-■■■■■■■ 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-500

◆ Features

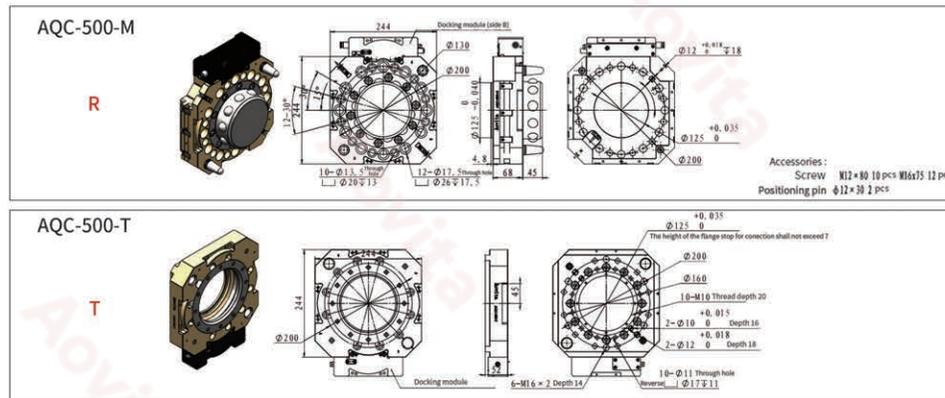
- Load capacity 500Kg
- Adopts steel ball locking mechanism
- The body can integrate locking and opening sensors
- Double air-break protection mechanism
- Applications: assembly, handling, stacking, grinding, deburring, automotive spot welding, etc

◆ 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 |
| | 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 | |



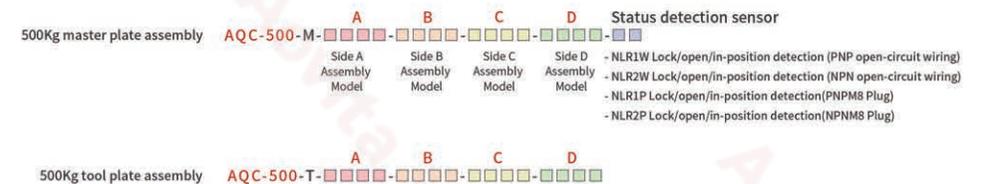
◆ Drawing



◆ 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



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

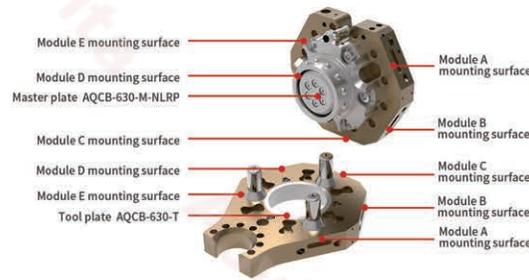
AQCB-630

◆ Features

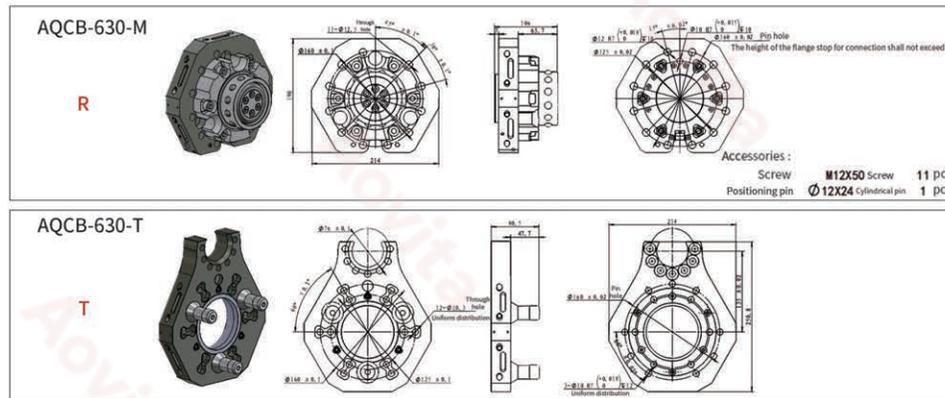
- Load capacity 630Kg
- Adopts steel ball locking mechanism
- The body can integrate locking and opening sensors
- Double air-break protection mechanism
- Applications: assembly, handling, stacking, automotive spot welding, etc

◆ 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 |



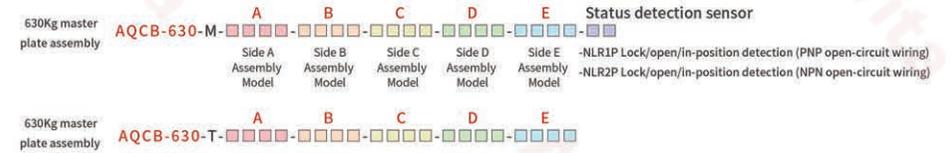
◆ Drawing



◆ Adaptive module

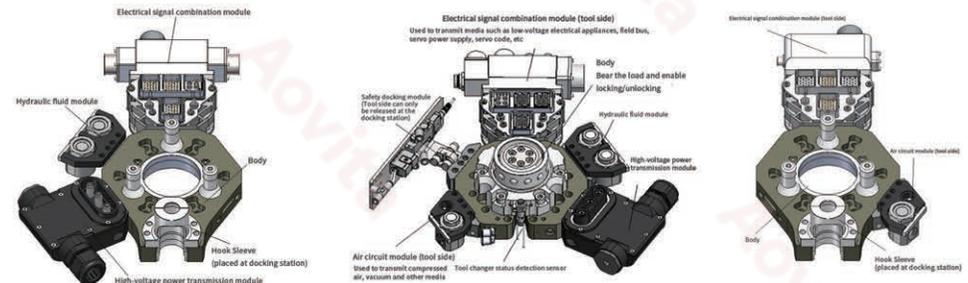
| Classification | Model | | Assembly model | Specification | Weight | Mounting surface | Diagram |
|---|--------------|---------------|----------------|--|--------|------------------|---------|
| Solenoid valve module | Master plate | AQCV1-SM | CV1SM | Integrate with solenoid valves, pressure detection, 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 | AQCM4XXX-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 | AQCM4XXX-ST | CM4SCCT | | 1.39Kg | | |

◆ Model



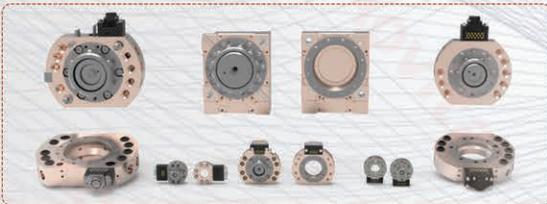
Note: When there are no optional contents in the □□□□ use "NON" as a placeholder. If no placeholder is required, it can be omitted.

◆ Application examples





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