

# MCTA2 series

## ALL-IN-ONE PNEUMATIC GRIPPER



Feature



Model selection



Technical data



Caution for safety  
(Read before installing)



TMPlug&Play  
CERTIFIED

### Order example of pneumatic gripper

#### MCTA2 — J66 — TM

MODEL

①  
GRIPPER  
MODULE

②  
ARM  
SPEC.

| Gripper module | Model    | Description |
|----------------|----------|-------------|
| <b>J66</b>     | MCHJ2-66 | 3 finger    |
| <b>S80</b>     | MCHS2-80 | 2 finger    |

| Arm spec. | Brand                       |
|-----------|-----------------------------|
| <b>TM</b> | TM Robot (TM5  / 12  / 14 ) |

### Order example of accessory kits

| No. | Model<br>Order number<br>Part name | Accessory kits & Q'y |                |
|-----|------------------------------------|----------------------|----------------|
|     |                                    | MCTA2-J66            | MCTA2-S80      |
|     |                                    | AK-MCTA-J66-TM       | AK-MCTA-S80-TM |
| 1   | Hex bolt (M5)                      | 4                    | 4              |
| 2   | Hex bolt (M6)                      | 4                    | 4              |
| 3   | PIN                                | 4                    | 4              |
| 4   | Centering sleeve                   | 6                    | 4              |

|               |               |     |                  |
|---------------|---------------|-----|------------------|
|               |               |     |                  |
| Hex bolt (M5) | Hex bolt (M6) | PIN | Centering sleeve |

\* Use the same accessory kits with MCTA series.

### Features

- All-In-One module design with embedded solenoid valves and sensor switches.
- Only one I/O signal cable and one air tube is required. Plug and play.
- High reliability and simple operation compare with electric grippers.
- Integrated wires with power-off protection.
- Easy mounting design with threads and bolts.
- Magnetic as standard.

### Specification

| Model                                    | MCTA2-J66      | MCTA2-S80   |
|------------------------------------------|----------------|-------------|
| Acting type                              | Double acting  |             |
| Size                                     | 66             | 80          |
| Stroke per-jaw (mm)                      | 6              | 8           |
| Effective external gripping force(N) *1  | 188            | 285         |
| Effective internal gripping force (N) *1 | 194            | 290         |
| Close/Open time (s)                      | 0.03           | 0.04        |
| Medium                                   | Air            |             |
| Operating pressure range                 | 0.2~0.7 MPa    | 0.3~0.7 MPa |
| Ambient temperature                      | +5~+80°C       |             |
| Lubrication                              | Not required   |             |
| Sensor switch                            | RDC, RQC       |             |
| Accessories                              | Accessory kits |             |
| Weight (kg)                              | ≈1.3           |             |
| Recom. work piece weight (kg) *2         | 3.8            | 2.6         |

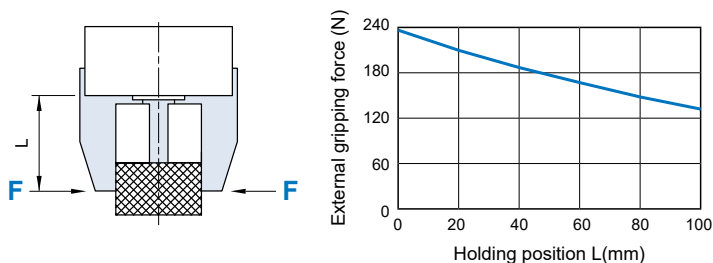
\*1. Under the condition of clamping length 40mm and operation pressure 0.6 MPa.

\*2. The weight limit of gripping workpiece depends on the load limit of robot arm and usage parameters.

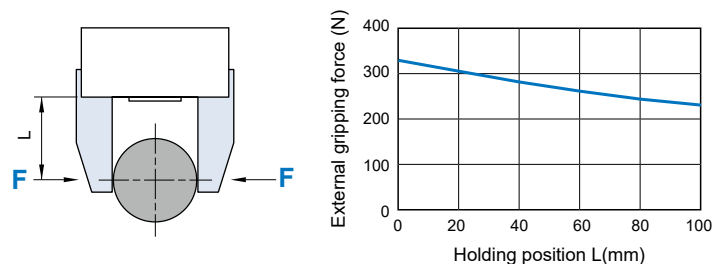
### Holding force

\* Operating pressure 0.6 MPa.

#### MCTA2-J66



#### MCTA2-S80



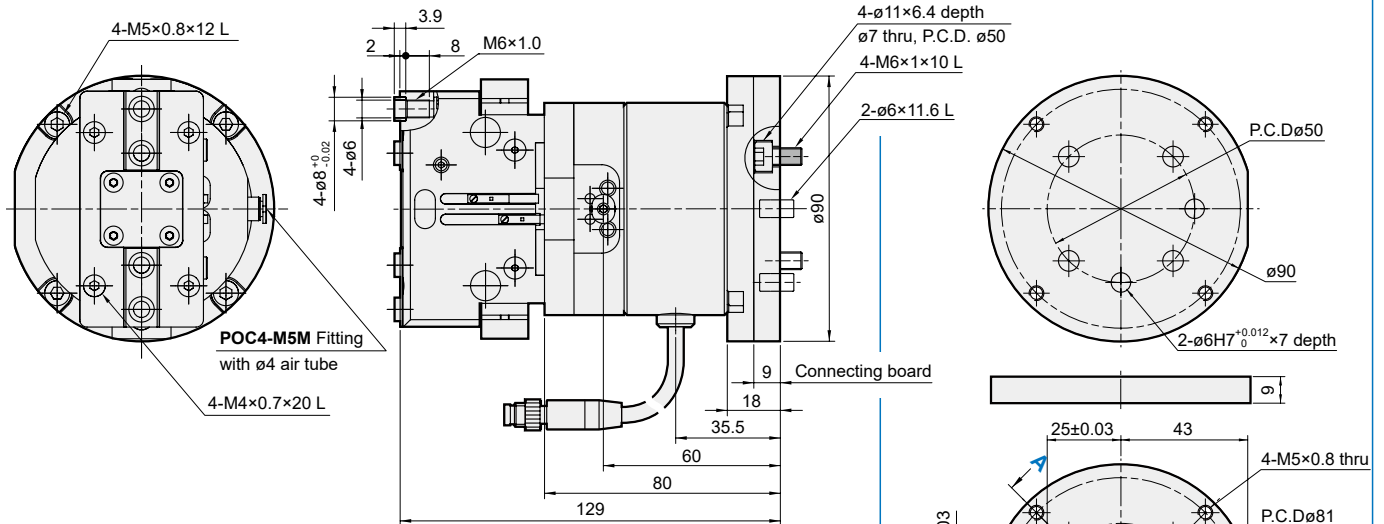
# MCTA2 Dimensions

## ALL-IN-ONE PNEUMATIC GRIPPER

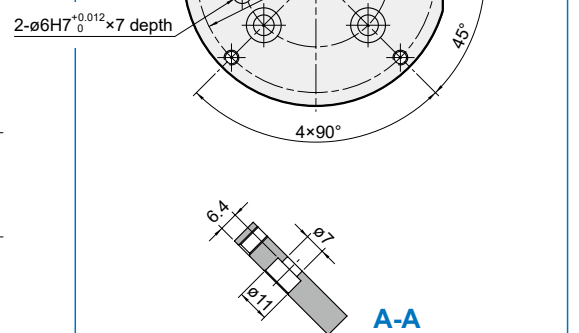
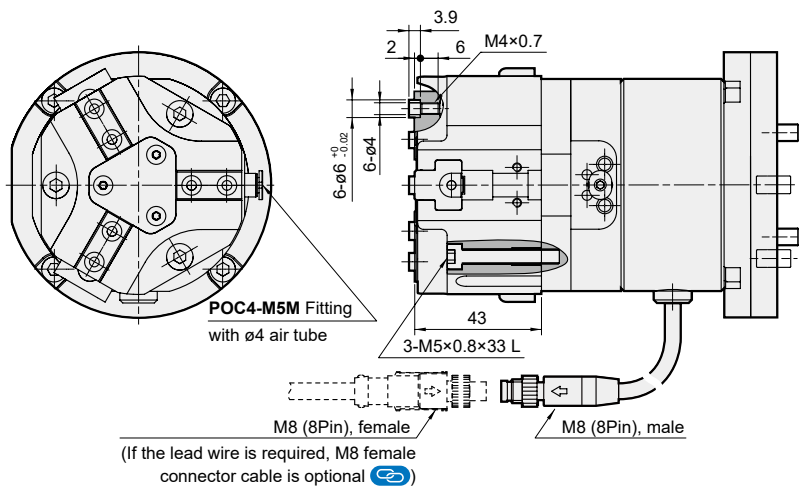


### MCTA2-S80-TM

### Connecting board



### MCTA2-J66-TM



### PIN Define

#### 8-PIN digital I/O connector of robot

| PIN | Color * | 8 PIN Define | Directions      | Function               |
|-----|---------|--------------|-----------------|------------------------|
| 1   | Brown   | +24V         | 24V Output      | —                      |
| 2   | Red     | DI_0         | Digital Input0  | Sensor switch (close)  |
| 3   | Orange  | DI_1         | Digital Input1  | Sensor switch (open)   |
| 4   | Yellow  | DI_2         | Digital Input2  | —                      |
| 5   | Green   | DO_0         | Digital output0 | Solenoid valve (open)  |
| 6   | Blue    | DO_1         | Digital output1 | Solenoid valve (close) |
| 7   | Violet  | DO_2         | Digital output2 | —                      |
| 8   | Black   | 0v           | 0v              | —                      |

\* Color for lead wire of M8 female connector.

### Built-in solenoid valve and sensor switch

