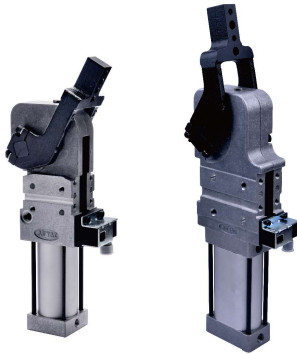


# Power clamp cylinder

**AIRTAC**

## JSK Series



### Specification

| Model                            | JSK40                                      | JSK50  | JSK63  | JSK80  |
|----------------------------------|--------------------------------------------|--------|--------|--------|
| Output torque (0.5MPa)           | 120N.m                                     | 160N.m | 380N.m | 800N.m |
| Acting type                      | Double acting                              |        |        |        |
| Fluid                            | Air(to be filtered by 40μm filter element) |        |        |        |
| Operating pressure               | 0.3~0.8MPa(43~116psi)                      |        |        |        |
| Proof pressure                   | 1.2MPa(175psi)                             |        |        |        |
| Temperature                      | -20~70 °C                                  |        |        |        |
| Opening angle                    | 5°~135°                                    |        |        |        |
| Minimum opening and closure time | 1 second clamping, 1 second opening        |        |        |        |
| Position sensing                 | Electrical Inductive approaching sensor    |        |        |        |
| Cushion type                     | Air buffer                                 |        |        |        |
| Weight [Note1]                   | 2.0kg                                      | 3.7kg  | 5.0kg  | 11.5kg |
| Port size [Note2]                | 1/8"                                       |        | 1/4"   |        |

[Note1] This weight includes 15mm offset clamping arm;

[Note2] G thread is available.

### Ordering code

JSK □ 50 AM1R K G □

1 2 3 4 5 6 7

| ①Model                                       | ②Clamping arm position           | ③Bore size             | ④Clamping arm [Note2]  | ⑤Sensor switch [Note3]                                                                                               | ⑥Thread type | ⑦Port          |    |                |   |  |   |
|----------------------------------------------|----------------------------------|------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|----------------|----|----------------|---|--|---|
| JSK: Power clamp cylinder<br><br>V: Vertical | Blank: Horizontal                | 40 (circular)          | Blank: No clamping arm | Blank: No sensor switch<br><br>K: With electrical sensor switch (PNP)<br><br>KN: With electrical sensor switch (NPN) | G: G         | Blank<br><br>B |    |                |   |  |   |
|                                              |                                  |                        | AM1: Offset 15mm       |                                                                                                                      |              |                | R  | C              | L |  |   |
|                                              |                                  |                        |                        |                                                                                                                      |              |                | Φ6 | Φ7             |   |  |   |
|                                              |                                  |                        | AM3: Offset 45mm       |                                                                                                                      |              |                | R  | C              |   |  | L |
|                                              |                                  |                        |                        |                                                                                                                      |              |                | C  | L              |   |  |   |
|                                              |                                  |                        | L                      |                                                                                                                      |              |                |    |                |   |  |   |
|                                              | 50(oval)<br>63(oval)<br>80(oval) | Blank: No clamping arm | R                      |                                                                                                                      |              | C              | L  | Blank<br><br>B |   |  |   |
|                                              |                                  | AM1: Offset 15mm       | Φ6                     |                                                                                                                      |              | Φ9             |    |                |   |  |   |
|                                              |                                  |                        | R                      |                                                                                                                      |              | C              |    |                | L |  |   |
|                                              |                                  | AM3: Offset 45mm       | C                      |                                                                                                                      |              | L              |    |                |   |  |   |
|                                              |                                  |                        | L                      |                                                                                                                      |              |                |    |                |   |  |   |
|                                              |                                  | AM2: Offset 15mm       | R                      |                                                                                                                      |              | C              |    |                | L |  |   |
|                                              | Φ8                               | Φ10,2                  |                        |                                                                                                                      |              |                |    |                |   |  |   |
| AM4: Offset 45mm                             | R                                | C                      |                        | L                                                                                                                    |              |                |    |                |   |  |   |
|                                              | C                                | L                      |                        |                                                                                                                      |              |                |    |                |   |  |   |
| L                                            |                                  |                        |                        |                                                                                                                      |              |                |    |                |   |  |   |
|                                              |                                  |                        |                        |                                                                                                                      |              |                |    |                |   |  |   |
|                                              |                                  |                        |                        |                                                                                                                      |              |                |    |                |   |  |   |
|                                              |                                  |                        |                        |                                                                                                                      |              |                |    |                |   |  |   |

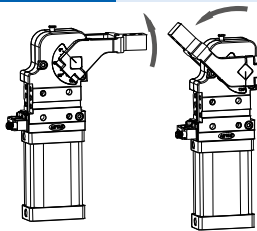
[Note1] Please refer to the right table for details of max. opening angle.

[Note2] Please refer to the drawing for detailed dimensions of clamping arm. Clamping arm AM1 and AM2 for 80 offset 20mm. products come with opening angle of 90°.

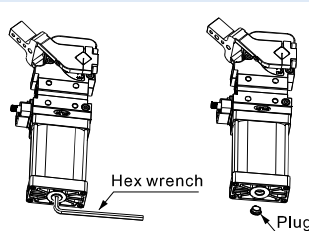
[Note3] K/KN type sensor switch can be ordered separately and please refer to relative contents.

| Bore size | Arm position | Arm type | Maximum opening angle | Bore size      | Arm position | Arm type | Maximum opening angle |
|-----------|--------------|----------|-----------------------|----------------|--------------|----------|-----------------------|
| 40        | horizontal   | AM1      | 135°                  | 50<br>63<br>80 | horizontal   | AM1, AM3 | 135°                  |
|           |              | AM3      | 105°                  |                |              | AM2, AM4 |                       |
|           | Vertical(V)  | AM1      | 120°                  |                | Vertical(V)  | AM1, AM3 | 105°                  |
|           |              | AM3      | 105°                  |                |              | AM2, AM4 |                       |

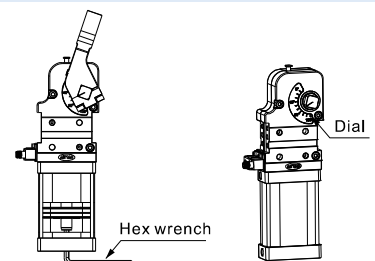
### Instructions



Step1: Adjust the clamping arm to the maximum opening angle;



Step2: Unscrew the plug by H6(40) or H8(50,63,80) hex wrench;



Step3: Adjust the clamping arm to the desired opening angle by H6(40) or H8(50,63,80) hex wrench.

#### Instructions

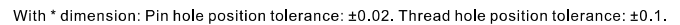
1. Cushioning body and piston are connected by thread and riveting.
2. Inductive block is fixed on the piston rod, which will move with piston rod while adjusting.
3. Sensor switch does not need further adjustment after finishing the angle adjustment.

# AirTAC

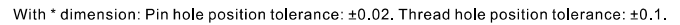
## JSK Series

JSK50AM1(2)

### Vertical clamping position

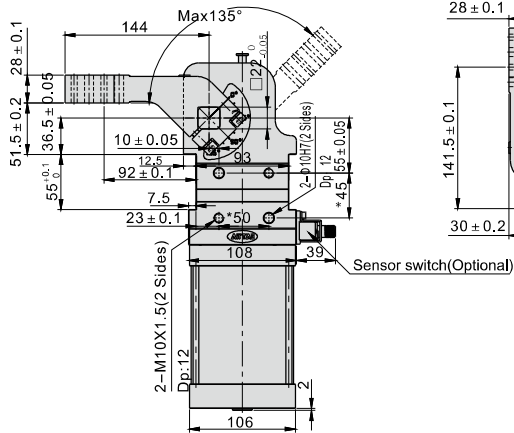
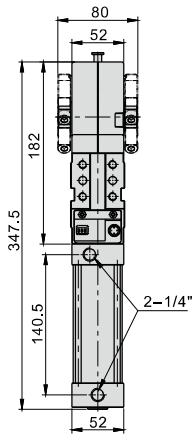


### Vertical clamping position

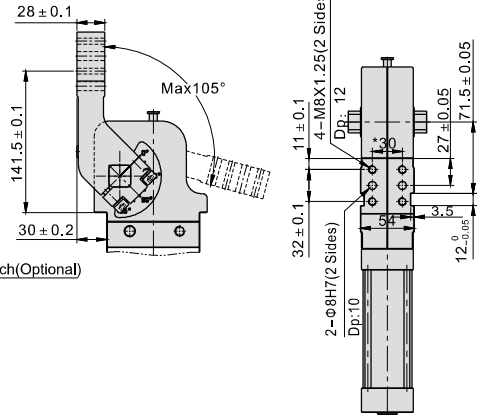


## JSK63AM1(2)

### Horizontal clamping position



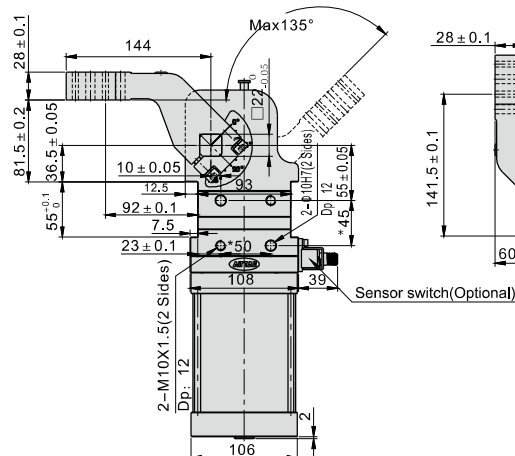
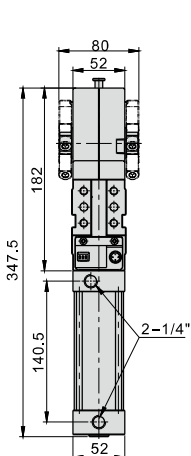
### Vertical clamping position



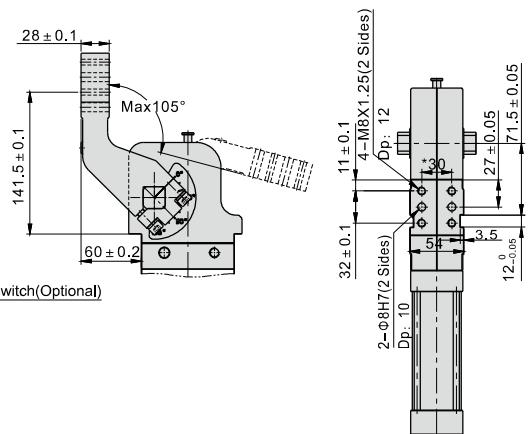
With \* dimension: Pin hole position tolerance:  $\pm 0.02$ . Thread hole position tolerance:  $\pm 0.1$ .

## JSK63AM3(4)

### Horizontal clamping position



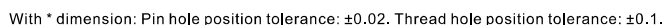
### Vertical clamping position



With \* dimension: Pin hole position tolerance:  $\pm 0.02$ . Thread hole position tolerance:  $\pm 0.1$ .

# AirTAC

## JSK80AM1(2)



With \* dimension: Pin hole position tolerance:  $\pm 0.02$ . Thread hole position tolerance:  $\pm 0.1$ .