

# MCHW series

## 180° ANGULAR GRIPPER - Rack & pinion style



Order example:

**MCHW – 25 D 1**

MODEL

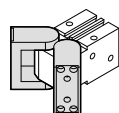
BORE

φ 20  
φ 25  
φ 32  
φ 40  
φ 50

D: Double acting

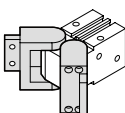
FINGER OPTION

Flat finger (standard)

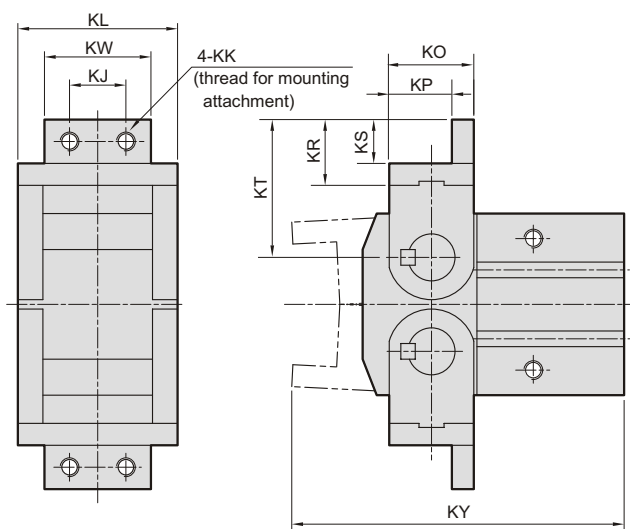


Right angle finger tap mounting.

1



### Right angle finger



### Features:

- Extremely compact design saves operating space.
- Synchronisation of gripping fingers.
- Dust seals protect all internal parts from ingress of dirt.
- Proximity and reed switches can be used with this unit.

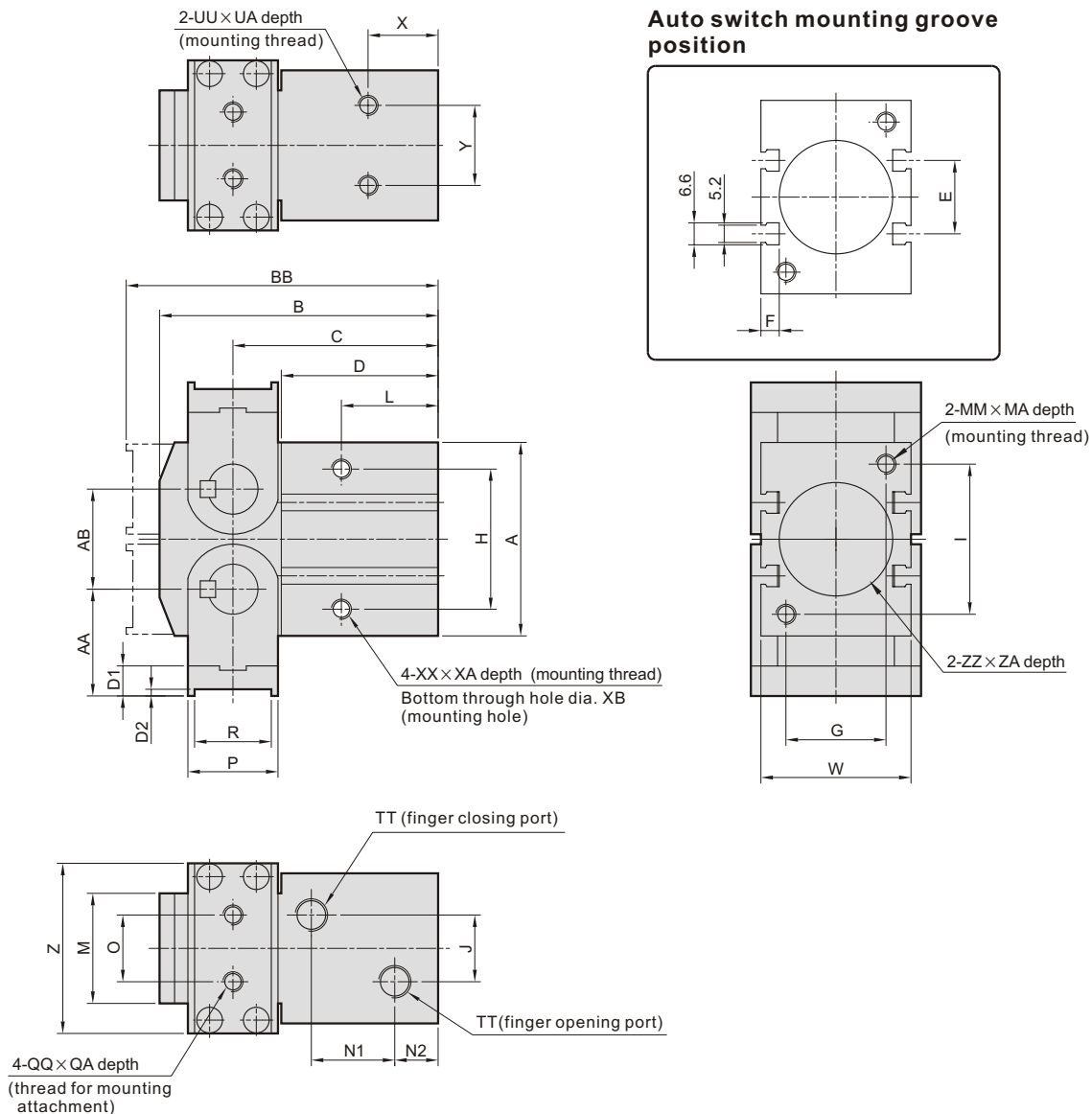
### Specification:

| Model                                           |             | MCHW                                |      |      |      |      |
|-------------------------------------------------|-------------|-------------------------------------|------|------|------|------|
| Acting Type                                     |             | Double Acting                       |      |      |      |      |
| Tube I.D. (mm)                                  |             | 20                                  | 25   | 32   | 40   | 50   |
| Medium                                          |             | Air                                 |      |      |      |      |
| Operating pressure range                        |             | 1.5~7 kgf/cm <sup>2</sup>           |      |      |      |      |
| Ambient temperature                             |             | - 10~ +60℃ (No freezing)            |      |      |      |      |
| Repeatability (mm)                              |             | ±0.2 mm                             |      |      |      |      |
| Max.operating frequency(c.p.m)                  |             | 60                                  |      | 30   |      |      |
| Lubrication                                     |             | Not required                        |      |      |      |      |
| Effective force (Nm) at (5kgf/cm <sup>2</sup> ) |             | 0.30                                | 0.73 | 1.61 | 3.70 | 8.27 |
| Operating angle<br>(both sides)                 | Opened side | 180°                                |      |      |      |      |
|                                                 | Closed side | -5°                                 | -6°  | -5°  | -5°  | -4°  |
| Sensor switch                                   |             | RK: Reed switch, RKN: NPN, RKP: PNP |      |      |      |      |
| Weight (kg)                                     |             | 0.30                                | 0.53 | 1    | 2.2  | 5.15 |

| Code<br>Tube I.D. | KA | KJ | KK      | KL | KO | KP | KR | KS |
|-------------------|----|----|---------|----|----|----|----|----|
| 20                | 5  | 14 | M4×0.7  | 41 | 16 | 11 | 15 | 10 |
| 25                | 6  | 16 | M5×0.8  | 45 | 21 | 15 | 18 | 12 |
| 32                | 7  | 18 | M6×1    | 51 | 27 | 20 | 21 | 14 |
| 40                | 10 | 24 | M8×1.25 | 67 | 36 | 26 | 30 | 21 |
| 50                | 12 | 30 | M10×1.5 | 85 | 52 | 39 | 37 | 24 |

| Code<br>Tube I.D. | KT | KW | KY    |
|-------------------|----|----|-------|
| 20                | 31 | 28 | 76    |
| 25                | 37 | 30 | 88    |
| 32                | 44 | 34 | 105.5 |
| 40                | 60 | 44 | 135.5 |
| 50                | 78 | 58 | 175   |

### Flat finger (standard)



| Code<br>Tube I.D. | A   | AA | AB | B     | BB    | C    | D    | D1 | D2 | E  | F   | G  | H  | I  | J  | L    | M    | MA | MM      | N1   | N2 | O  | P  |
|-------------------|-----|----|----|-------|-------|------|------|----|----|----|-----|----|----|----|----|------|------|----|---------|------|----|----|----|
| 20                | 36  | 23 | 18 | 60    | 68    | 45   | 35   | 7  | 2  | 8  | 6   | 26 | 27 | 26 | 12 | 23   | 30   | 10 | M5×0.8  | 20   | 9  | 18 | 16 |
| 25                | 45  | 27 | 24 | 69    | 78    | 51   | 40   | 8  | 2  | 9  | 5.5 | 30 | 34 | 30 | 16 | 27   | 30.3 | 12 | M6×1    | 23   | 10 | 20 | 21 |
| 32                | 58  | 32 | 30 | 83.5  | 93.5  | 61.5 | 47   | 9  | 2  | 22 | 5.5 | 30 | 42 | 45 | 20 | 29   | 32.9 | 12 | M6×1    | 25   | 13 | 20 | 27 |
| 40                | 80  | 42 | 40 | 104.5 | 117.5 | 75.5 | 56.5 | 12 | 3  | 20 | 6   | 36 | 54 | 60 | 20 | 37.5 | 45   | 15 | M8×1.25 | 33.5 | 14 | 28 | 36 |
| 50                | 112 | 58 | 56 | 136   | 154   | 96   | 69   | 17 | 4  | 26 | 6   | 40 | 70 | 80 | 30 | 48   | 58.6 | 20 | M10×1.5 | 22   | 16 | 38 | 52 |

| Code<br>Tube I.D. | R                                  | QA | QQ      | TT     | UA | UU      | W  | X    | XA | XB  | XX      | Y  | Z  | ZA | ZZ                                                 |
|-------------------|------------------------------------|----|---------|--------|----|---------|----|------|----|-----|---------|----|----|----|----------------------------------------------------|
| 20                | 12 <sup>+0.2</sup> <sub>+0.1</sub> | 5  | M4×0.7  | M5×0.8 | 7  | M5×0.8  | 36 | 17   | 10 | 4.2 | M5×0.8  | 20 | 41 | 3  | $\phi 21\text{H9}$ <sup>+0.052</sup> <sub>+0</sub> |
| 25                | 17 <sup>+0.2</sup> <sub>+0.1</sub> | 6  | M5×0.8  | M5×0.8 | 10 | M6×1    | 40 | 20   | 12 | 5.1 | M6×1    | 24 | 45 | 3  | $\phi 26\text{H9}$ <sup>+0.052</sup> <sub>+0</sub> |
| 32                | 23 <sup>+0.2</sup> <sub>+0.1</sub> | 7  | M6×1    | Rc 1/8 | 10 | M6×1    | 45 | 21   | 12 | 5.1 | M6×1    | 24 | 51 | 4  | $\phi 34\text{H9}$ <sup>+0.062</sup> <sub>+0</sub> |
| 40                | 30 <sup>+0.3</sup> <sub>+0.1</sub> | 9  | M8×1.25 | Rc 1/8 | 15 | M8×1.25 | 56 | 27.5 | 16 | 6.8 | M8×1.25 | 30 | 67 | 4  | $\phi 42\text{H9}$ <sup>+0.062</sup> <sub>+0</sub> |
| 50                | 44 <sup>+0.4</sup> <sub>+0.1</sub> | 13 | M10×1.5 | Rc 1/4 | 20 | M10×1.5 | 66 | 36   | 20 | 8.5 | M10×1.5 | 40 | 85 | 5  | $\phi 52\text{H9}$ <sup>+0.074</sup> <sub>+0</sub> |