

## Features:



- Suitable for clamping small parts with high accuracy and short cycle time.
- Double piston design to increase gripping force.
- By employing a cross roller guide, fingers' parallel motion has greater precision and strength.
- Repeatability:  $\pm 0.03\text{mm}$ ; Life time: 10,000,000 cycles.

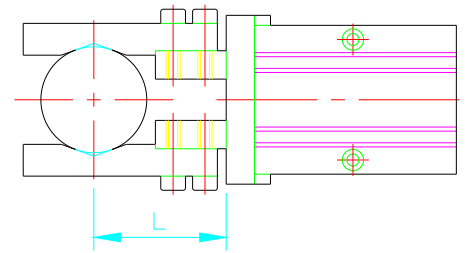
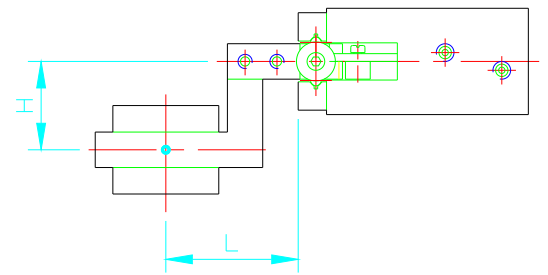


## Specifications:

|                              |  |
|------------------------------|--|
| <b>Action</b>                | Double acting type   |
| <b>Series</b>                | KP   |
| <b>Bore</b>                  | $\varnothing 20, \varnothing 25, \varnothing 32, \varnothing 40$ |
| <b>Operating fluid</b>       | compressed air   |
| <b>Operating pressure</b>    | $2.0\text{--}7.0\text{kgf/cm}^2$                                 |
| <b>Proof pressure</b>        | $10\text{kgf/cm}^2$  |
| <b>Speed range</b>           | $50\text{--}100\text{mm/sec}$                                    |
| <b>Temperature range</b>     | $-30^\circ\text{C}\sim+80^\circ\text{C}$                         |
| <b>Lubrication</b>           | Not required   |
| <b>Weight (g)</b>            | 231, 379, 723, 860   |
| <b>Max. operating cycles</b> | 180 C.P.M.   |

## How to Order:

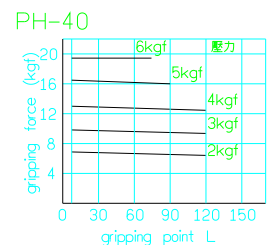
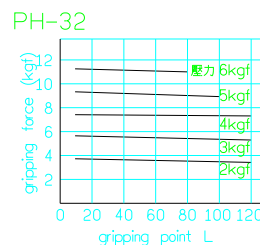
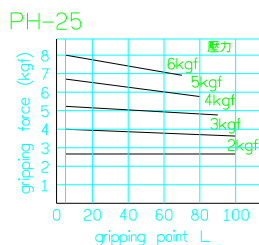
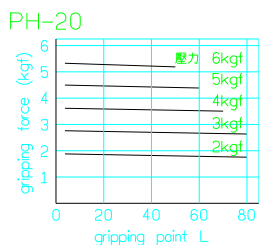
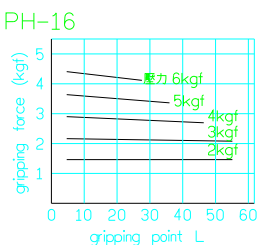
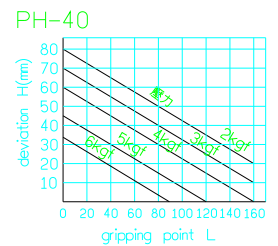
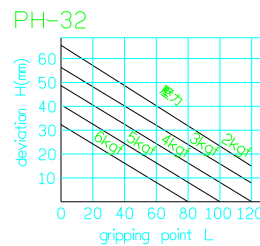
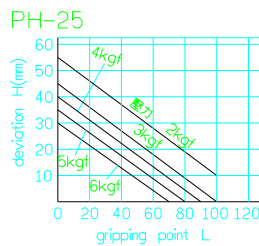
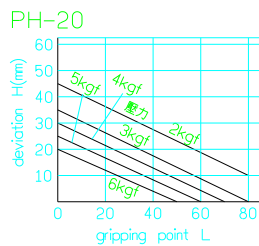
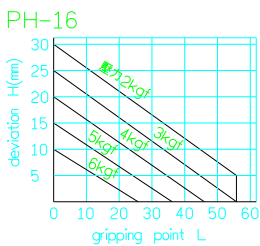
|  |  |  |                        |
|--|--|--|------------------------|
| <b>KP</b>  | <b>20</b>  | <b>TC</b>  | <b>2</b>               |
| <b>Series</b>  | <b>Bore</b>  | <b>Reed Switch</b>   | <b>Switch quantity</b> |
| KP Standard type<br> | $\varnothing 20$<br>$\varnothing 25$<br>$\varnothing 32$<br>$\varnothing 40$ | TC-IIN:<br>DC 5~30V<br> | 1 : 1 PC<br>2 : 2 PCS  |



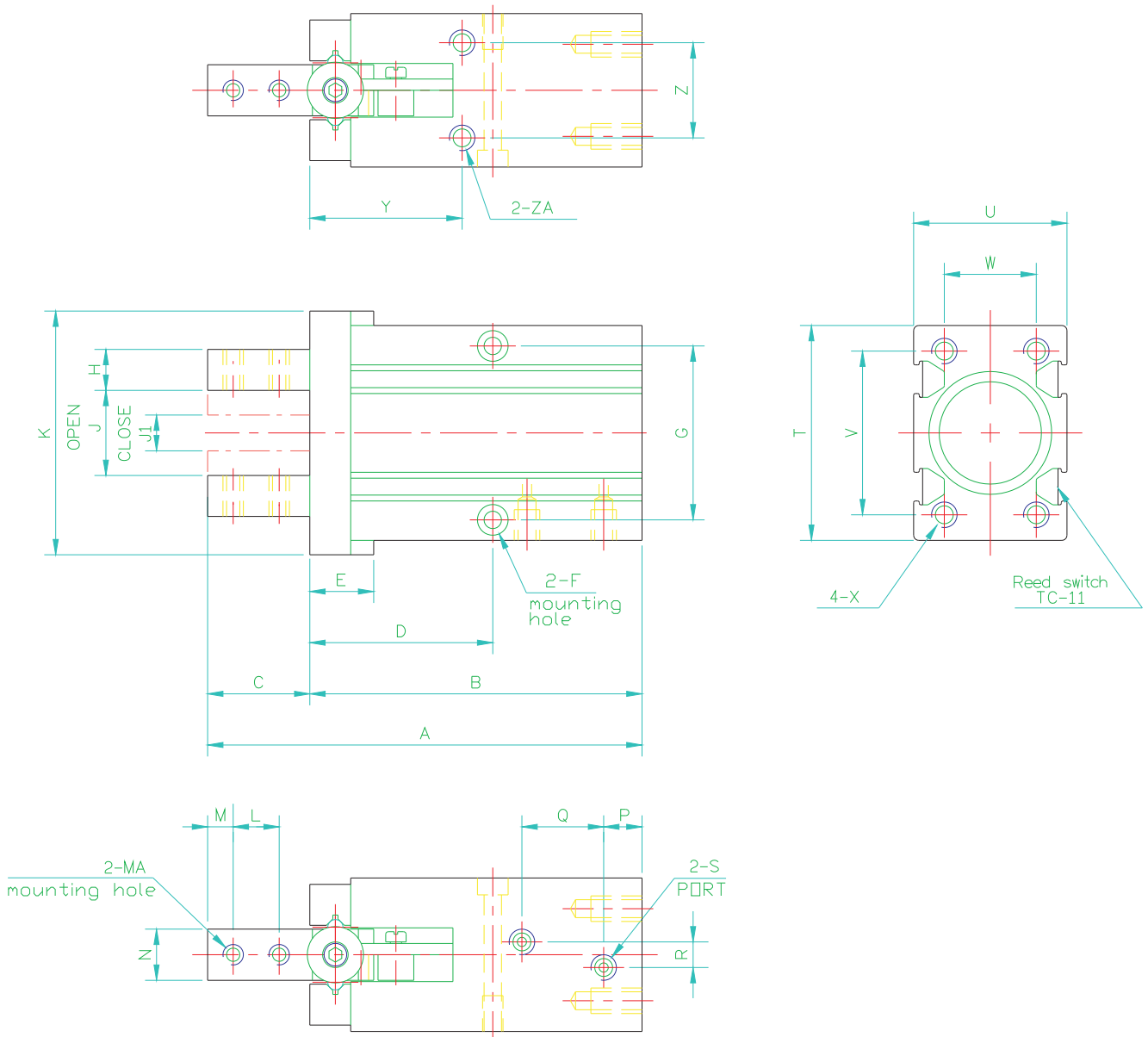
## Gripping Force Diagrams

To size proper grippers,

Please refer to the following graphs



# External Dimensions:



| Type | A   | B  | C  | D    | E    | F  | G  | H  | J1   | J    | K  | L  | M | N  |
|------|-----|----|----|------|------|--|----|----|------|------|----|----|---|----|
| KP20 | 85  | 65 | 20 | 35.8 | 12.5 | ø3.4 thru hole, ø6 c'bore 4 dp, M4x0.7 (counter side)  | 34 | 8  | 7    | 16.6 | 48 | 9  | 5 | 10 |
| KP25 | 103 | 78 | 25 | 48   | 17   | ø4.2 thru hole ø7 c'bore 4.5 dp, M5x0.8 (counter side) | 41 | 10 | 8.8  | 22.3 | 62 | 12 | 6 | 12 |
| KP32 | 127 | 97 | 30 | 57   | 20   | ø5.2/ø10 c'bore 5.5 dp, M6x1.0 (counter side)          | 50 | 12 | 11.6 | 29.5 | 80 | 14 | 7 | 14 |
| KP40 | 128 | 98 | 30 | 57   | 20   | ø6.7/ø11 c'bore 7 dp, M6x1.0 (counter side)            | 52 | 12 | 11.6 | 29.5 | 80 | 14 | 7 | 14 |

| Type | MA     | P   | Q  | R | S      | T  | U  | V  | W  | X           | Y    | Z    | ZA          |
|------|--------|-----|----|---|--------|----|----|----|----|-------------|------|------|-------------|
| KP20 | M4x0.7 | 7.5 | 16 | 5 | M5x0.8 | 42 | 30 | 32 | 18 | M5x0.8 dp10 | 29.8 | 18.6 | M5x0.8 dp6  |
| KP25 | M5x0.8 | 7.5 | 17 | 5 | M5x0.8 | 50 | 32 | 40 | 22 | M6x1.0 dp12 | 41.2 | 22   | M6x1.0 dp7  |
| KP32 | M6x1.0 | 9   | 24 | 5 | M5x0.8 | 62 | 38 | 48 | 26 | M6x1.0 dp12 | 47   | 26   | M6x1.0 dp10 |
| KP40 | M6x1.0 | 10  | 24 | 5 | M5x0.8 | 65 | 48 | 52 | 36 | M6x1.0 dp12 | 47   | 36   | M6x1.0 dp10 |