

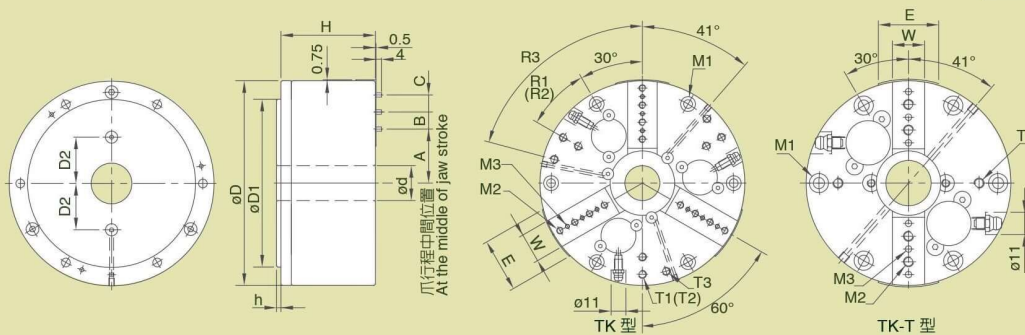
# TK, TK-T SUPER PRECISION AIR CHUCKS

## 超精密氣壓夾頭

專利產品  
Patent Protected

1. 預設治具孔及預留自動潤滑管道：爪殼預設治具孔，有額外固定需要時不須再追加加工；且預留自動潤滑管道，可與自動潤滑裝置連結。
2. 內藏式汽缸：汽缸與夾盤直結設計，確保作動及夾持的穩定性。
3. 生爪精密定位：設有定位銷使生爪在重複拆裝時仍保持良好的定位精度。
4. 超高精度夾持提高工作效率：夾持工件的同軸度及重覆夾持精度可達 $\mu$ 級，簡化操作，實現高效率的精密加工。

### 尺寸圖 » Dimensions



### 1. Pre-machined tapped holes and lubrication path:

There are tapped holes for fixing jigs, thus, additional screw machining is not necessary, and pre-machined lubrication path can connect to auto-lubrication unit to lubricate the chuck automatically.

### 2. Built-in Cylinder: Connect cylinder directly to the chuck for stable gripping.

3. Precise soft jaw positioning: It's easy to remount soft jaw to the correct position with dowel pins on it.

### 4. High gripping precision brings better quality and efficiency:

Good coaxiality and repeatability of gripping are able to achieve the accuracy of " $\mu$  degree" machining processes can be simplified or shortened to make high precision machining with high efficiency come true.

## 本產品精密度可達 $\mu$ 級

This product reaches the repeatability of " $\mu$  degree"

### 應用範例 » Operation Example



### 規格表 » Specifications

單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A          | B              | C  | D     | E   | D1                         | d<br>(H7)                                       | D2                         | H    | h   | W  | M1                            |
|---------------------------|------------|----------------|--|-------|---|----------------------------|---|----------------------------|------|-----|----|-------------------------------|
| TK-04                     | 20.75      | 12.7           | 12.7                                     | 101.6 | 30  | 82.55                      | 18  | 25                         | 70.3 | 3.2 | 16 | 6-M5x0.8P(PCD $\phi$ 88.9)    |
| TK-06                     | 39.75      | 12.7           | 12.7                                     | 152.4 | 40  | 124.97                     | 26  | 34.5                       | 70.3 | 3.2 | 22 | 6-M6x1P(PCD $\phi$ 135.89)    |
| TK-08                     | 65.75      | 25.4           | --                                       | 203.2 | 45  | 167.64                     | 50  | 50                         | 99.5 | 7.0 | 25 | 6-M10x1.5P(PCD $\phi$ 182.88) |
| TK-04T                    | 20.75      | 12.7           | 12.7                                     | 101.6 | 30  | 82.55                      | 18  | 25                         | 70.3 | 3.2 | 16 | 6-M5x0.8P(PCD $\phi$ 88.9)    |
| TK-06T                    | 39.75      | 12.7           | 12.7                                     | 152.4 | 40  | 124.97                     | 26  | 34.5                       | 70.3 | 3.2 | 22 | 6-M6x1P(PCD $\phi$ 135.89)    |
| TK-08T                    | 65.75      | 25.4           | --                                       | 203.2 | 45  | 167.64                     | 50  | 50                         | 99.5 | 7.0 | 25 | 6-M10x1.5P(PCD $\phi$ 182.88) |
| 型式/規格<br>MODEL<br>/ SPEC. | M2         | M3             | T1                                       |       |   | T2                         |   | T3                         |      | R1  |    |                               |
| TK-04                     | 6-M5x0.8P  | 9- $\phi$ 3.18 | 3-M5x0.8P(PCD $\phi$ 88.9)               |       |   | --                         |   | --                         |      | 30° |    |                               |
| TK-06                     | 12-M5x0.8P | 9- $\phi$ 3.18 | 3-M6x1P(PCD $\phi$ 135.89)               |       |   | 3-M6x1P(PCD $\phi$ 110)    |   | 3-M6x1P(PCD $\phi$ 135.89) |      | 30° |    |                               |
| TK-08                     | 6-M10x1.5P | 6- $\phi$ 6.36 | 3-M8x1.25P(PCD $\phi$ 182.88)            |       |   | 3-M8x1.25P(PCD $\phi$ 150) |   | 3-M8x1.25P(PCD $\phi$ 100) |      | 30° |    |                               |
| TK-04T                    | 4-M5x0.8P  | 6- $\phi$ 3.18 | 2-M5x0.8P(PCD $\phi$ 70)                 |       |   | --                         |   | --                         |      | --  |    |                               |
| TK-06T                    | 8-M5x0.8P  | 6- $\phi$ 3.18 | 2-M6x1P(PCD $\phi$ 110)                  |       |   | --                         |   | --                         |      | --  |    |                               |
| TK-08T                    | 4-M10x1.5P | 4- $\phi$ 6.36 | 2-M8x1.25P(PCD $\phi$ 150)               |       |   | --                         |   | --                         |      | --  |    |                               |
| 型式/規格<br>MODEL<br>/ SPEC. | R2         | R3             | 爪行程〔直徑〕<br>Jaw Stroke<br>[Diameter] (mm) |       | 空壓夾持力 Gripping Force<br>At Air Pressure 7kgf/cm <sup>2</sup> (0.7Mpa)<br>kgf (KN) |                            | 最高迴轉速<br>Max.Speed<br>r.p.m(min <sup>-1</sup> ) | 淨重<br>Weight<br>(kg)       |      |     |    |                               |
| TK-04                     | --         | --             | 3  |       | 800 (7.8)   |                            | 4500  | 4.4                        |      |     |    |                               |
| TK-06                     | 30°        | 75°            | 3  |       | 1200 (11.7)   |                            | 4200  | 9.8                        |      |     |    |                               |
| TK-08                     | 30°        | 30°            | 3  |       | 1800 (17.6)   |                            | 2500  | 26.3                       |      |     |    |                               |
| TK-04T                    | --         | --             | 3  |       | 800 (7.8)   |                            | 3500  | 4.2                        |      |     |    |                               |
| TK-06T                    | --         | --             | 3  |       | 1200 (11.7)   |                            | 3500  | 9.5                        |      |     |    |                               |
| TK-08T                    | --         | --             | 3  |       | 1800 (17.6)   |                            | 2000  | 25.1                       |      |     |    |                               |