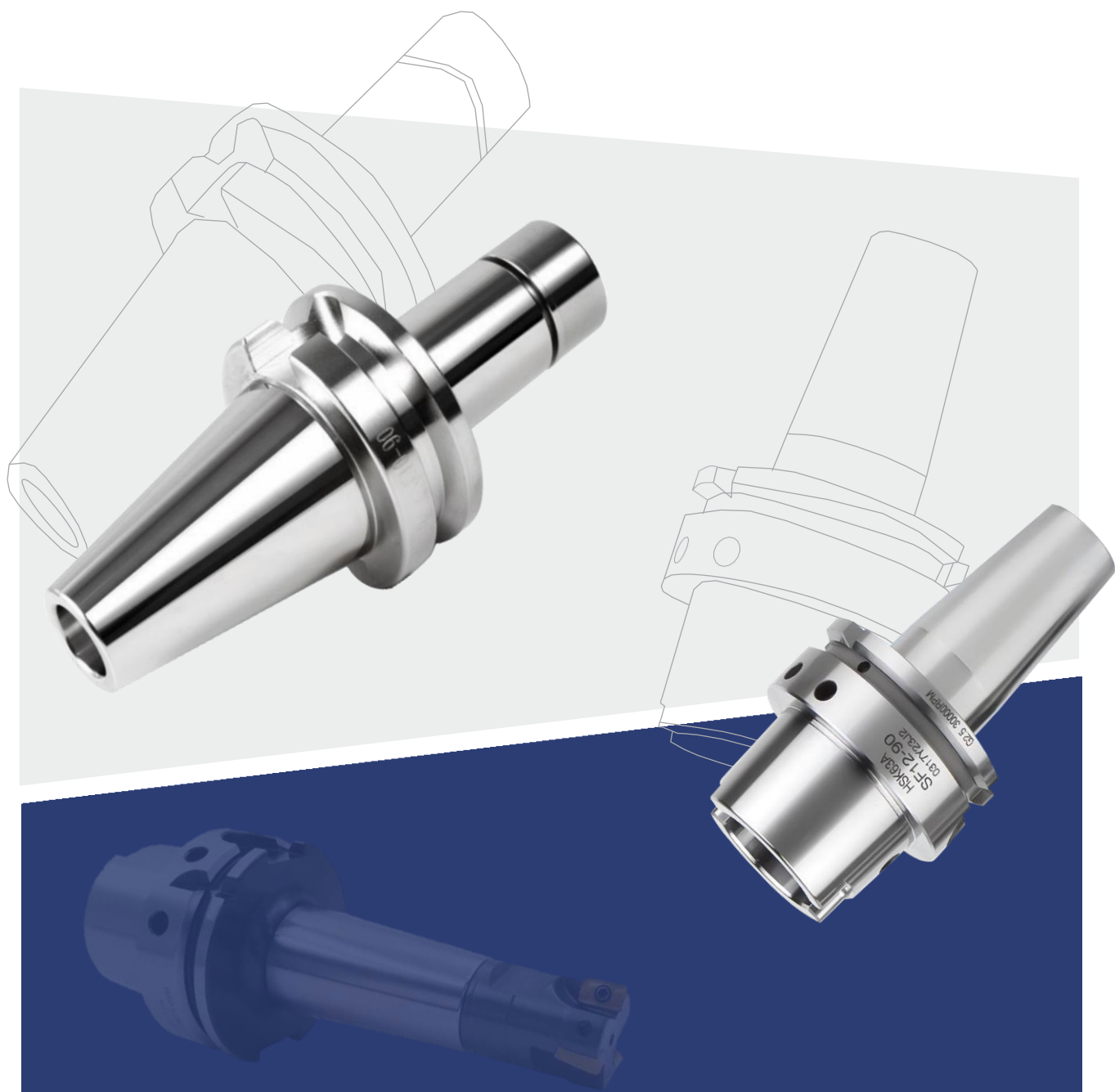


# BT/HSK



蒲菲科技有限公司

## BBT/ISO



[PERFECT-CNC.COM](http://PERFECT-CNC.COM)

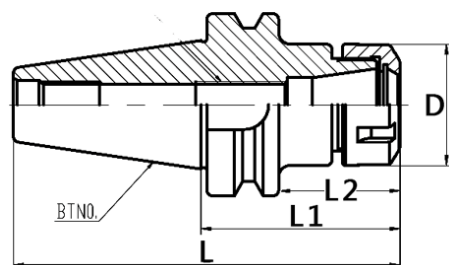
|                                                                                                                          |                                                                                                          |                                                                                                              |                                                                                                              |                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
|  <p>ER刀桿 3</p>                            |  <p>GER刀桿 4</p>          |  <p>ER延長桿</p> <p>ER法蘭盤 5</p> |  <p>莫式ER 6</p>              |  <p>ER筒夾/大孔徑ER 7</p>      |
|  <p>出水/止水/絲攻筒夾 8</p>                     |  <p>SK刀桿 9</p>          |  <p>SK筒夾 10</p>             |  <p>SDC後拉式刀桿 11</p>        |  <p>SDC後拉式筒夾 12</p>      |
|  <p>FMA/FMB刀桿 13</p>                     |  <p>DCM強力型刀桿14</p>      |  <p>SLA側固刀桿 13</p>          |  <p>SLA側固延長</p>            |  <p>APU 鑽夾刀桿 17</p>      |
|  <p>FMB-C 13</p>                         |  <p>MTA/MTB刀桿 20</p>    |  <p>超短側固 13</p>             |  <p>OZ強力型刀桿 16</p>         |  <p>TER鋼性攻牙刀桿 17</p>     |
|  <p>GT扭力絲攻刀桿 18</p>                      |  <p>GT扭力絲攻筒夾 19</p>     |  <p>SCA側銑刀桿 20</p>          |  <p>M 鎖牙式刀桿 21</p>         |  <p>GL鋼延長桿 22</p>        |
|  <p>鋼後拉延長桿 23</p>                      |  <p>後拉延長桿 24</p>      |  <p>LBK鏜刀桿/延長桿 25</p>     |  <p>三點組合 26</p>          |  <p>主軸測式 26</p>        |
|  <p>HSK-ER 27</p>                      |  <p>HSK-SK 28</p>     |  <p>HSK-DC 29</p>         |  <p>HSK-FMA / FMB 30</p> |  <p>HSK-MTA/MTB 31</p> |
|  <p>HSK-M鎖牙式 / HSK-C強力型 / 冷卻液導管 32</p> |  <p>HSK-SLA側固式 33</p> |  <p>螺帽 34</p>             |  <p>扳手 35</p>            |  <p>六角沖頭</p>           |
|  <p>拉頭 36</p>                          |  <p>雕刻機專用高速刀桿 37</p>  |  <p>萬向浮動絞刀柄</p>           |  <p>萬向浮動倒角柄 38</p>       |  <p>旋轉沖削刀具 39</p>      |



## BT-ER刀桿

### BBT-ER

JIS B6339/DIN6499

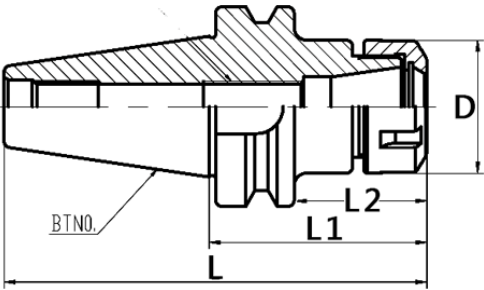


筒夾跟扳手須另外購買

| BT            | ER                  | φ d  | L1  | L2  | D=NUT       | Weight(kg) |
|---------------|---------------------|------|-----|-----|-------------|------------|
| BT30<br>BBT30 | BT30-ER11(A/M)-70L  | 1-7  | 70  | 48  | A=19 / M=16 | 0.60       |
|               | BT30-ER11(A/M)-100L | 1-7  | 100 | 78  | A=19 / M=16 | 0.75       |
|               | BT30-ER16(A/M)-70L  | 1~10 | 70  | 48  | A=28 / M=22 | 0.60       |
|               | BT30-ER16(A/M)-100L | 1~10 | 100 | 78  | A=28 / M=22 | 0.75       |
|               | BT30-ER20(A/M)-70L  | 1~13 | 70  | 48  | A=34 / M=28 | 0.60       |
|               | BT30-ER20(A/M)-100L | 1~13 | 100 | 78  | A=34 / M=28 | 0.75       |
|               | BT30-ER25-70L       | 1~16 | 760 | 48  | 42          | 0.70       |
|               | BT30-ER32-60L       | 1~16 | 60  | 38  | 50          | 0.75       |
|               | BT30-ER32-70L       | 1~16 | 70  | 48  | 50          | 0.80       |
|               | BT30-ER32-100L      | 1~16 | 100 | 78  | 50          | 0.95       |
| BT40<br>BBT40 | BT40-ER11-70L       | 1~7  | 70  | 43  | A=19 / M=16 | 1.20       |
|               | BT40-ER11-100L      | 1~7  | 100 | 73  | A=19 / M=16 | 1.25       |
|               | BT40-ER16-70L       | 1~10 | 70  | 43  | A=28 / M=22 | 1.20       |
|               | BT40-ER16-100L      | 1~10 | 100 | 73  | A=28 / M=22 | 1.40       |
|               | BT40-ER16-150L      | 1~10 | 150 | 123 | A=28 / M=22 | 1.60       |
|               | BT40-ER16-200L      | 1~10 | 200 | 173 | A=28 / M=22 | 1.90       |
|               | BT40-ER20-70L       | 1~13 | 70  | 43  | A=34 / M=28 | 1.30       |
|               | BT40-ER20-100L      | 1~13 | 100 | 73  | A=34 / M=28 | 1.50       |
|               | BT40-ER20-125L      | 1~13 | 125 | 98  | A=34 / M=28 | 1.65       |
|               | BT40-ER20-150L      | 1~13 | 150 | 123 | A=34 / M=28 | 1.80       |
|               | BT40-ER20-200L      | 1~13 | 200 | 173 | A=34 / M=28 | 1.95       |
|               | BT40-ER25-70L       | 1~16 | 70  | 73  | 42          | 1.50       |
|               | BT40-ER25-100L      | 1~16 | 100 | 73  | 42          | 1.70       |
|               | BT40-ER32-70L       | 1~20 | 70  | 43  | 50          | 1.40       |
|               | BT40-ER32-100L      | 1~20 | 100 | 73  | 50          | 1.80       |
|               | BT40-ER32-150L      | 1~20 | 150 | 123 | 50          | 2.60       |
|               | BT40-ER40-80L       | 3~26 | 80  | 53  | 63          | 1.70       |
|               | BT40-ER40-100L      | 3~26 | 100 | 73  | 63          | 2.20       |
|               | BT40-ER40-150L      | 3~26 | 150 | 123 | 63          | 2.45       |

BT-ER Tool Holder

JIS B6339/DIN6499 /CAT



| BT   | ER                  | φ d  | L1  | L2  | D=NUT       | Weight(kg) |
|------|---------------------|------|-----|-----|-------------|------------|
| BT50 | BT50-ER16(A/M)-100L | 1~10 | 100 | 62  | A=28 / M=22 | 4.10       |
|      | BT50-ER16(A/M)-150L | 1~10 | 150 | 112 | A=28 / M=22 | 4.30       |
|      | BT50-ER16(A/M)-200L | 1~10 | 200 | 162 | A=28 / M=22 | 4.60       |
|      | BT50-ER20(A/M)-100L | 1~13 | 100 | 62  | A=34 / M=28 | 4.20       |
|      | BT50-ER20(A/M)-150L | 1~13 | 150 | 112 | A=34 / M=28 | 4.50       |
|      | BT50-ER20(A/M)-200L | 1~13 | 200 | 162 | A=34 / M=28 | 4.80       |
|      | BT50-ER25-100L      | 2~16 | 100 | 62  | 42          | 4.20       |
|      | BT50-ER25-150L      | 2~16 | 150 | 112 | 42          | 4.80       |
|      | BT50-ER25-200L      | 2~16 | 200 | 162 | 42          | 5.30       |
|      | BT50-ER32-100L      | 3~20 | 100 | 62  | 50          | 4.40       |
|      | BT50-ER32-150L      | 3~20 | 150 | 112 | 50          | 5.20       |
|      | BT50-ER32-200L      | 3~20 | 200 | 162 | 50          | 5.90       |
|      | BT50-ER40-100L      | 3~26 | 100 | 62  | 63          | 4.70       |
|      | BT50-ER40-150L      | 3~26 | 150 | 112 | 63          | 5.90       |
|      | BT50-ER40-200L      | 3~26 | 200 | 162 | 63          | 7.10       |

BT-GER Tool Holder

Balancing:30,000r.p.m G2.5



| BT            | TYPE            | φ d  | L1  | L2 | D=NUT | Weight(kg) |
|---------------|-----------------|------|-----|----|-------|------------|
| BT30<br>BBT30 | BT30-GER16-70L  | 1~10 | 70  | 48 | 30    | 0.60       |
|               | BT30-GER16-100L | 1~10 | 100 | 78 | 30    | 0.75       |
|               | BT30-GER20-70L  | 1~13 | 70  | 48 | 35    | 0.60       |
|               | BT30-GER20-100L | 1~13 | 100 | 78 | 35    | 0.75       |
|               | BT30-GER25-70L  | 1~16 | 760 | 48 | 40    | 0.70       |
| BT40<br>BBT40 | BT40-GER16-70L  | 1~10 | 70  | 43 | 30    | 1.20       |
|               | BT40-GER16-100L | 1~10 | 100 | 73 | 30    | 1.40       |
|               | BT40-GER20-70L  | 1~13 | 70  | 43 | 35    | 1.30       |
|               | BT40-GER20-100L | 1~13 | 100 | 73 | 35    | 1.50       |
|               | BT40-GER25-70L  | 1~16 | 70  | 73 | 40    | 1.50       |
|               | BT40-GER25-100L | 1~16 | 100 | 73 | 40    | 1.70       |
|               | BT40-GER32-70L  | 1~20 | 70  | 43 | 50    | 1.40       |
|               | BT40-GER32-100L | 1~20 | 100 | 73 | 50    | 1.80       |



## 內藏式ER刀桿

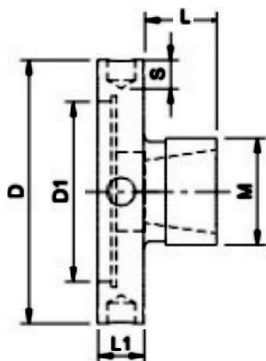
## Integrated ER Collet Chuck



| TYPE          | D  | L  | 夾持範圍 | 適用扳手   |
|---------------|----|----|------|--------|
| BT30-ER16-45L | 28 | 45 | 1-10 | ER16A  |
| BT30-ER20-45L | 34 | 45 | 1-13 | ER20A  |
| BT30-ER25-45L | 42 | 45 | 1-16 | ER25UM |
| BT30-ER32-45L | 50 | 45 | 1-20 | ER32UM |
| BT40-ER16-50L | 34 | 50 | 1-10 | ER16A  |
| BT40-ER20-50L | 34 | 50 | 1-13 | ER20A  |
| BT40-ER25-50L | 42 | 50 | 1-16 | ER25UM |
| BT40-ER32-45L | 50 | 45 | 1-20 | ER32UM |
| BT40-ER40-50L | 63 | 50 | 3-26 | ER40UM |
| BT50-ER25-70L | 50 | 70 | 1-16 | ER25UM |
| BT50-ER32-70L | 50 | 70 | 2-20 | ER32UM |
| BT50-ER40-80L | 63 | 80 | 3-26 | ER40UM |

## ZXER 卡盤/ER法蘭盤

## ER Flange Mount Collet Chuck



| TYPE       | ER   | D   | TYPE       | ER   | D   |
|------------|------|-----|------------|------|-----|
| 3ZXER16045 | ER16 | 45  | 3ZXER40100 | ER40 | 100 |
| 3ZXER20045 | ER20 | 45  | 3ZXER50100 | ER50 | 100 |
| 3ZXER25080 | ER25 | 80  | 3ZXER25125 | ER25 | 125 |
| 3ZXER32080 | ER32 | 80  | 3ZXER32125 | ER32 | 125 |
| 3ZXER40080 | ER40 | 80  | 3ZXER40125 | ER40 | 125 |
| 3ZXER25100 | ER25 | 100 | 3ZXER50125 | ER50 | 125 |
| 3ZXER32100 | ER32 | 100 | 3ZXER50160 | ER50 | 160 |

## ER 延長桿 / ER Extension rod

| TYPE            | TYPE            | TYPE            |
|-----------------|-----------------|-----------------|
| C8-ER8A/M-100   | C16-ER16/M-100  | C25-ER16A/M-100 |
| C8-ER8A/M-150   | C16-ER16A/M-150 | C25-ER16A-150   |
| C10-ER8A/M-100  | C16-ER16A/M-200 | C25-ER16A-200   |
| C10-ER8A/M-150  | C16-ER20A/M-100 | C25-ER20A/M-100 |
| C12-ER8A/M-100  | C16-ER20A/M-150 | C25-ER20A/M-150 |
| C12-ER8A/M-150  | C16-ER20A/M-200 | C25-ER20A/M-200 |
| C10-ER11A/M-100 | C20-ER16A/M-100 | C32-ER20A/M-100 |
| C10-ER11A/M-150 | C20-ER16A/M-150 | C32-ER20A/M-150 |
| C12-ER11A/M-100 | C20-ER16A/M-200 | C25-ER25-150    |
| C12-ER11A/M-150 | C20-ER16A/M-250 | C25-ER32-150    |
| C12-ER11A/M-200 | C20-ER20A/M-100 | C25-ER40-150    |
| C12-ER16A/M-100 | C20-ER20A/M-150 |                 |
| C12-ER16A/M-150 | C20-ER20A/M-200 |                 |
| C12-ER16A/M-200 | C20-ER20A/M-250 |                 |

## M型/A型





SL 車床內出水ER延長桿

Lathe internal water outlet ER extension rod

走芯機車床延長桿



| TYPE            | 牙   | TYPE             | 牙   | TYPE              | 牙   |
|-----------------|-----|------------------|-----|-------------------|-----|
| SL16-ER11M-50L  | 1/8 | SL25-ER16M-50L   | 1/4 | SL20-ER11A-50L    | 1/4 |
| SL16-ER11M-70L  |     | SL25-ER16M-70L   |     | SL20-ER11A-70L    |     |
| SL16-ER11M-100L |     | SL25-ER16M-100L  |     | SL20-ER16A-50L    |     |
| SL16-ER16M-50L  | 1/4 | SL25-ER20M-50L   | 3/8 | SL20-ER16A-70L    |     |
| SL16-ER16M-70L  |     | SL25-ER20M-70L   |     | SL20-ER16A-100L   | 3/8 |
| SL16-ER16M-100L |     | SL25-ER20M-100L  |     | SL20-ER20A-70L    |     |
| SL20-ER11M-70L  |     | SL25-ER25UM-50L  | 3/8 | SL20-ER20A-100L   |     |
| SL20-ER11M-100L |     | SL25-ER25UM-70L  |     | SL25-ER11A-60L    | 3/8 |
| SL20-ER16M-50L  |     | SL32-ER20M-70L   |     | SL25-ER16A-50L    |     |
| SL20-ER16M-70L  |     | SL32-ER20M-85L   |     | SL25-ER16A-70L    |     |
| SL20-ER16M-100L |     | SL32-ER20M-100L  |     | SL25-ER20A-70L    | 3/8 |
| SL20-ER20M-50L  | 1/2 | SL32-ER25UM-70L  |     | SL25-ER20A-100L   |     |
| SL20-ER20M-70L  |     | SL32-ER25UM-100L |     | SL25.4-ER20M-100L |     |
| SL20-ER20M-100L |     | SL32-ER32UM-100L |     | SL40-ER32UM-100L  | 3/8 |

莫氏錐柄MT-ER TYPE

|           |               |
|-----------|---------------|
| MTA2-ER20 | MTB2-ER20-M10 |
| MTA2-ER25 | MTB2-ER25-M10 |
| MTA2-ER32 | MTB2-ER32-M10 |
| MTA2-ER40 | MTB2-ER40-M10 |
| MTA3-ER20 | MTB3-ER20-M12 |
| MTA3-ER25 | MTB3-ER25-M12 |
| MTA3-ER32 | MTB3-ER32-M12 |
| MTA3-ER40 | MTB3-ER40-M12 |
| MTA4-ER25 | MTB4-ER20-M16 |
| MTA4-ER32 | MTB4-ER25-M16 |
| MTA4-ER40 | MTB4-ER32-M16 |
| MTA5-ER32 | MTB4-ER40-M16 |
| MTA5-ER40 |               |

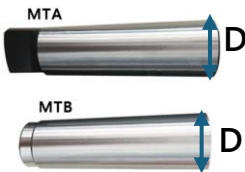
MTA  
後拉扁尾



MTB  
牙M



莫氏錐柄



|     | D     |
|-----|-------|
| MT2 | 18.03 |
| MT3 | 24.07 |
| MT4 | 31.26 |
| MT5 | 44.47 |

2R55電機主軸ER連接桿

|               |                                                     |
|---------------|-----------------------------------------------------|
| C12-ER8-27L   | 尾孔:3 / 31.75 / 4 / 5                                |
| C16-ER11A*35L | 尾孔:3 / 3.175 / 5 / 6 / 8 / 6.35 / 7 / 8 / 10 / 12mm |
| C18-ER11A*35L | 尾孔:12                                               |
| C20-ER16A*40L | 尾孔:5 / 6 / 6.35 / 7 / 8 / 10 / 12 / 14 / 16mm       |
| C25-ER20A*50L | 尾孔:6 / 8 / 10 / 11 / 12 / 15 / 16 / 22 / 24mm       |
| C27-ER20A*50L | 尾孔:19 / 20                                          |
| C32-ER25*70L  | 尾孔:14 / 16 / 19 / 20 / 22 / 24mm                    |



JT6-ER 代替鑽夾頭



【鑽孔款】

|          |
|----------|
| JT6-ER11 |
| JT6-ER16 |
| JT6-ER20 |
| JT6-ER25 |
| JT6-ER32 |
| JT6-ER40 |

JT6-TER



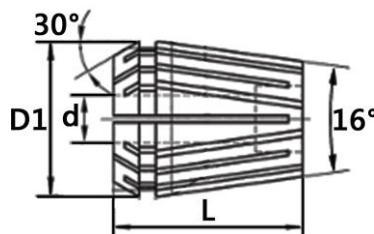
【伸縮浮動款】

|           |
|-----------|
| JT6-TER11 |
| JT6-TER16 |
| JT6-TER20 |
| JT6-TER25 |
| JT6-TER32 |



## ER筒夾

## ER Collet



| SET NO. | D1   | L    |
|---------|------|------|
| ER8     | 8.45 | 13.5 |
| ER11    | 11.5 | 18   |
| ER16    | 17   | 27.5 |
| ER20    | 21   | 31.5 |
| ER25    | 26   | 34   |
| ER32    | 33   | 40   |
| ER40    | 41   | 46   |
| ER50    | 52   | 60   |

A精度0.015  
AA精度0.008  
AAA精度0.005

| SET NO.   | SET NO.    | SET NO.    | SET NO.    | SET NO.    | SET NO.    | SET NO. | SET NO. |
|-----------|------------|------------|------------|------------|------------|---------|---------|
| ER8-1     | ER11-1     | ER16-1     | ER20-1     | ER25-1     | ER32-1     | ER40-3  | ER50-6  |
| ER8-1.5   | ER11-1.5   | ER16-1.5   | ER20-1.5   | ER25-1.5   | ER32-1.5   | ER40-4  | ER50-7  |
| ER8-2     | ER11-2     | ER16-2     | ER20-2     | ER25-2     | ER32-2     | ER40-5  | ER50-8  |
| ER8-2.5   | ER11-2.5   | ER16-2.5   | ER20-2.5   | ER25-2.5   | ER32-2.5   | ER40-6  | ER50-9  |
| ER8-3     | ER11-3     | ER16-3     | ER20-3     | ER25-3     | ER32-3     | ER40-7  | ER50-10 |
| ER8-3.5   | ER11-3.5   | ER16-3.5   | ER20-3.5   | ER25-3.5   | ER32-3.5   | ER40-8  | ER50-11 |
| ER8-3.175 | ER11-3.175 | ER16-3.175 | ER20-3.175 | ER25-3.175 | ER32-3.175 | ER40-9  | ER50-12 |
| ER8-4     | ER11-4     | ER16-4     | ER20-4     | ER25-4     | ER32-4     | ER40-10 | ER50-13 |
| ER8-4.5   | ER11-4.5   | ER16-4.5   | ER20-4.5   | ER25-4.5   | ER32-4.5   | ER40-11 | ER50-14 |
| ER8-5     | ER11-5     | ER16-5     | ER20-5     | ER25-5     | ER32-5     | ER40-12 | ER50-15 |
|           | ER11-5.5   | ER16-5.5   | ER20-5.5   | ER25-5.5   | ER32-5.5   | ER40-13 | ER50-16 |
|           | ER11-6     | ER16-6     | ER20-6     | ER25-6     | ER32-6     | ER40-14 | ER50-17 |
|           | ER11-6.5   | ER16-6.5   | ER20-6.5   | ER25-6.5   | ER32-6.5   | ER40-15 | ER50-18 |
|           | ER11-7     | ER16-7     | ER20-7     | ER25-7     | ER32-7     | ER40-16 | ER50-19 |
|           |            | ER16-7.5   | ER20-7.5   | ER25-7.5   | ER32-7.5   | ER40-17 | ER50-20 |
|           |            | ER16-8     | ER20-8     | ER25-8     | ER32-8     | ER40-18 | ER50-21 |
|           |            | ER16-8.5   | ER20-8.5   | ER25-8.5   | ER32-8.5   | ER40-19 | ER50-22 |
|           |            | ER16-9     | ER20-9     | ER25-9     | ER32-9     | ER40-20 | ER50-23 |
|           |            | ER16-9.5   | ER20-9.5   | ER25-9.5   | ER32-9.5   | ER40-21 | ER50-24 |
|           |            | ER16-10    | ER20-10    | ER25-10    | ER32-10    | ER40-22 | ER50-25 |
|           |            |            | ER20-10.5  | ER25-10.5  | ER32-10.5  | ER40-23 | ER50-26 |
|           |            |            | ER20-11    | ER25-11    | ER32-11    | ER40-24 | ER50-27 |
|           |            |            | ER20-11.5  | ER25-11.5  | ER32-11.5  | ER40-25 | ER50-28 |
|           |            |            | ER20-12    | ER25-12    | ER32-12    | ER40-26 | ER50-29 |
|           |            |            | ER20-12.5  | ER25-12.5  | ER32-12.5  |         | ER50-30 |
|           |            |            | ER20-13    | ER25-13    | ER32-13    |         | ER50-31 |
|           |            |            |            | ER25-14    | ER32-13.5  |         | ER50-32 |
|           |            |            |            | ER25-14.5  | ER32-14    |         | ER50-33 |
|           |            |            |            | ER25-15    | ER32-14.5  |         | ER50-34 |
|           |            |            |            | ER25-15.5  | ER32-15    |         | ER50-35 |
|           |            |            |            | ER25-16    | ER32-15.5  |         | ER50-36 |
|           |            |            |            | ER25-16.5  | ER32-16    |         |         |
|           |            |            |            |            | ER32-16.5  |         |         |
|           |            |            |            |            | ER32-17    |         |         |
|           |            |            |            |            | ER32-17.5  |         |         |
|           |            |            |            |            | ER32-18    |         |         |
|           |            |            |            |            | ER32-18.5  |         |         |
|           |            |            |            |            | ER32-19    |         |         |
|           |            |            |            |            | ER32-19.5  |         |         |
|           |            |            |            |            | ER32-20    |         |         |

## BER 大孔徑



AA精度0.008

| 大孔徑      | D1 | L    | 大孔徑      | D1 | L    |
|----------|----|------|----------|----|------|
| BER8-5.5 | 8  | 14   | BER32-21 | 33 | 37   |
| BER8-6   | 8  | 14   | BER32-22 | 33 | 37   |
| BER11-8  | 12 | 15.5 | BER32-23 | 33 | 34.2 |
| BER16-11 | 16 | 25   | BER32-24 | 33 | 34.1 |
| BER16-12 | 16 | 22   | BER32-25 | 33 | 33.6 |
| BER20-14 | 21 | 28   | BER32-26 | 33 | 34   |
| BER20-15 | 21 | 26   | BER40-27 | 41 | 46   |
| BER20-16 | 21 | 25.6 | BER40-28 | 41 | 46   |
| BER25-17 | 26 | 32   | BER40-29 | 41 | 46   |
| BER25-18 | 26 | 32   | BER40-30 | 41 | 46   |
| BER25-19 | 26 | 30   | BER40-31 | 41 | 39.5 |
| BER25-20 | 26 | 28   | BER40-32 | 41 | 39.5 |



TGER 出水型筒夾 Collet

AA精度<0.008

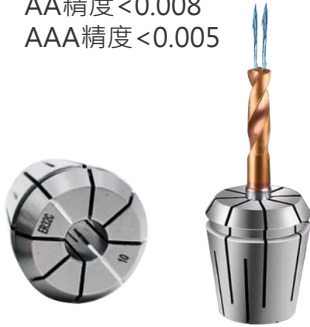
| TPYE    | d孔徑尺寸    |
|---------|----------|
| TGER11- | (3-7mm)  |
| TGER16- | (3-10mm) |
| TGER20- | (3-13mm) |
| TGER25- | (3-16mm) |
| TGER32- | (3-20mm) |
| TGER40- | (3-26mm) |



5GER 中心出水型筒夾 Collet

AA精度<0.008  
AAA精度<0.005

| TPYE    | d孔徑尺寸    |
|---------|----------|
| 5GER11- | (3-7mm)  |
| 5GER16- | (3-10mm) |
| 5GER20- | (3-13mm) |
| 5GER25- | (3-16mm) |
| 5GER32- | (3-20mm) |
| 5GER40- | (3-26mm) |

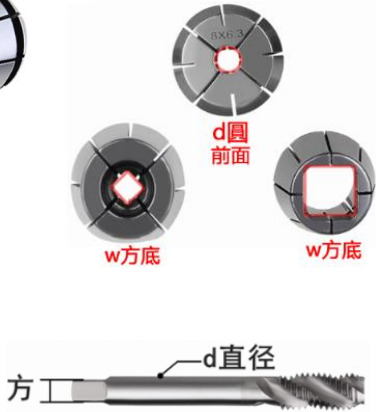


TER 絲攻筒夾 Collet

AA精度<0.008



| TPYE   | d 夾持範圍 |
|--------|--------|
| TER16- | M2~M12 |
| TER20- | M2~M14 |
| TER25- | M3~M20 |
| TER32- | M3~M24 |
| TER40- | M3~M30 |



| TAPE ISO |      |      | TAPE JIS |      |     |
|----------|------|------|----------|------|-----|
| 絲攻規格     | d    | W口   | 絲攻規格     | d    | W口  |
| M2       | 2.5  | 2    | M2       | 3    | 2.5 |
| M3       | 3.15 | 2.5  | M3       | 4    | 3.2 |
| M4       | 4    | 3.15 | M4       | 5    | 4   |
| M5       | 5    | 4    | M5       | 5.5  | 4.5 |
| M6       | 6.3  | 5    | M6       | 6    | 4.5 |
| M8       | 6.3  | 5    | M8       | 6.2  | 5   |
| M10      | 8    | 6    | M10      | 7    | 5.5 |
| M12      | 9    | 7.1  | M12      | 8.5  | 6.5 |
| M14      | 11.2 | 9    | M14      | 10.5 | 8   |
| M16      | 12.5 | 10   | M16      | 12.5 | 10  |
| M18      | 14   | 11.2 | M18      | 14   | 11  |
| M20      | 14   | 11.2 | M20      | 15   | 12  |
| M22      | 16   | 12.5 | M22      | 17   | 13  |
| M24      | 18   | 14   | M24      | 19   | 15  |

C4 筒夾

AA精度<0.008



| TPYE    | TPYE    | TPYE    | TPYE    | TPYE    |
|---------|---------|---------|---------|---------|
| C4-0.5  | C4-0.95 | C4-1.4  | C4-1.85 | C4-2.3  |
| C4-0.55 | C4-1.0  | C4-1.45 | C4-1.9  | C4-2.35 |
| C4-0.6  | C4-1.05 | C4-1.5  | C4-1.95 | C4-2.4  |
| C4-0.65 | C4-1.1  | C4-1.55 | C4-2.0  | C4-2.45 |
| C4-0.7  | C4-1.15 | C4-1.6  | C4-2.05 | C4-2.5  |
| C4-0.75 | C4-1.2  | C4-1.65 | C4-2.1  | C4-2.15 |
| C4-0.8  | C4-1.25 | C4-1.7  | C4-2.15 | C4-2.25 |
| C4-0.85 | C4-1.3  | C4-1.75 | C4-2.2  | C4-2.45 |
| C4-0.9  | C4-1.35 | C4-1.8  | C4-2.25 |         |



BT-SK 高速精密刀桿

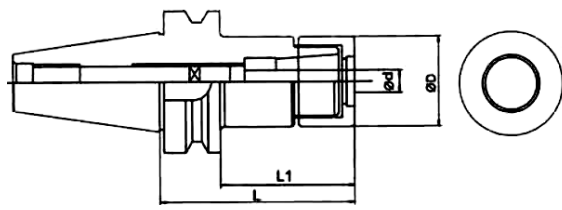
BT-SK High-speed precision tool holder



A TYPE



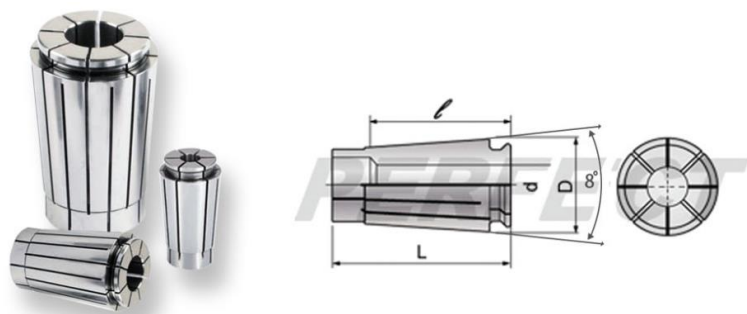
B TYPE



| TYPE          |                     | 夾持範圍 | D  | L   | L1  | 重量/kg | 動平衡      |
|---------------|---------------------|------|----|-----|-----|-------|----------|
| BT30<br>BBT30 | BT30*SK06-90L       | 1-6  | 20 | 90  | 68  | 0.70  | 30000RPM |
|               | BT30*SK06-120L      |      |    | 120 | 98  | 0.80  |          |
|               | BT30*SK10-60L(A/B)  | 1-10 | 30 | 60  | 38  | 0.70  |          |
|               | BT30*SK10-90L(A/B)  |      |    | 90  | 68  | 0.80  |          |
|               | BT30*SK13-60L(A/B)  | 2-13 | 35 | 60  | 38  | 1.10  |          |
|               | BT30*SK13-90L(A/B)  |      |    | 90  | 68  | 1.10  |          |
|               | BT30*SK13-120L(A/B) |      |    | 120 | 98  | 1.10  |          |
|               | BT30*SK16-60L(A/B)  | 2-16 | 40 | 60  | 38  | 0.70  |          |
|               | BT30*SK16-90L(A/B)  |      |    | 90  | 68  | 0.90  |          |
|               | BT30*SK16-120L(A/B) |      |    | 120 | 98  | 1.30  |          |
| BT40<br>BBT40 | BT40*SK06-90L       | 1-6  | 20 | 90  | 63  | 0.70  | 25000RPM |
|               | BT40*SK06-120L      |      |    | 120 | 93  | 0.80  |          |
|               | BT40*SK10-60L(A/B)  | 1-10 | 30 | 60  | 33  | 1.20  |          |
|               | BT40*SK10-90L(A/B)  |      |    | 90  | 63  | 1.30  |          |
|               | BT40*SK10-120L(A/B) |      |    | 120 | 93  | 1.50  |          |
|               | BT40*SK10-150L(A/B) |      |    | 150 | 123 | 1.60  |          |
|               | BT40*SK13-60L(A/B)  | 2-13 | 35 | 60  | 33  | 1.20  |          |
|               | BT40*SK13-90L(A/B)  |      |    | 90  | 63  | 1.30  |          |
|               | BT40*SK13-120L(A/B) |      |    | 120 | 93  | 1.60  |          |
|               | BT40*SK13-150L(A/B) |      |    | 150 | 123 | 1.80  |          |
|               | BT40*SK16-60L(A/B)  | 2-16 | 40 | 60  | 33  | 1.30  |          |
|               | BT40*SK16-90L(A/B)  |      |    | 90  | 63  | 1.50  |          |
|               | BT40*SK16-120L(A/B) |      |    | 120 | 93  | 1.90  |          |
|               | BT40*SK16-150L(A/B) |      |    | 150 | 123 | 2.10  |          |
|               | BT40*SK20-60L(A/B)  | 6-20 | 50 | 60  | 33  | 1.30  |          |
|               | BT40*SK20-90L(A/B)  |      |    | 90  | 63  | 1.80  |          |
|               | BT40*SK20-120L(A/B) |      |    | 120 | 93  | 2.40  |          |
|               | BT40*SK20-150L(A/B) |      |    | 150 | 123 | 2.60  |          |
|               | BT40*SK25-80L       | 6-25 | 56 | 80  | 53  | 1.60  |          |
|               | BT40*SK25-120L      |      |    | 120 | 93  | 2.20  |          |
| BT50          | BT50*SK10-135L(A/B) | 1-10 | 30 | 135 | 97  | 4.15  | 15000RPM |
|               | BT50*SK10-150L(A/B) |      |    | 150 | 112 | 4.20  |          |
|               | BT50*SK10-165L(A/B) |      |    | 165 | 127 | 4.40  |          |
|               | BT50*SK16-100L(A/B) | 2-16 | 40 | 100 | 62  | 4.20  |          |
|               | BT50*SK16-135L(A/B) |      |    | 135 | 97  | 4.55  |          |
|               | BT50*SK16-150L(A/B) |      |    | 150 | 112 | 5.00  |          |
|               | BT50*SK16-165L(A/B) |      |    | 165 | 127 | 5.10  |          |
|               | BT50*SK20-100L(A/B) | 6-20 | 50 | 100 | 62  | 4.50  |          |
|               | BT50*SK20-135L      |      |    | 135 | 97  | 5.00  |          |
|               | BT50*SK20-150L      |      |    | 150 | 112 | 5.50  |          |
|               | BT50*SK25-100L      | 6-25 | 56 | 100 | 62  | 4.50  |          |
|               | BT50*SK25-135L      |      |    | 135 | 97  | 5.10  |          |
|               | BT50*SK25-150L      |      |    | 150 | 112 | 5.30  |          |



## SK 筒夾 SK Collet



### Features:

- Made of special elastic steel: 65Mn
- Hardness: HRC44-48
- AA0.008 / AAA0.005 / AAAA0.003

| 尺寸    | D    | L    | Weight(kg) |
|-------|------|------|------------|
| SK06- | 10.4 | 25.0 | 0.01       |
| SK10- | 15.6 | 30.0 | 0.02       |
| SK13- | 20.0 | 39.0 | 0.04       |
| SK16- | 24.5 | 45.0 | 0.08       |
| SK20- | 29.1 | 50.5 | 0.14       |
| SK25- | 35.0 | 57.0 | 0.24       |

## TSK 止水筒夾 Collet



| SET NO.   | SET NO.    | SET NO.    | SET NO.    |
|-----------|------------|------------|------------|
| SK6-1     | SK10-1     | SK13-2     | SK16-2     |
| SK6-2     | SK10-1.5   | SK13-2.5   | SK16-2.5   |
| SK6-2.5   | SK10-2     | SK13-3     | SK16-3     |
| SK6-3     | SK10-2.5   | SK13-3.175 | SK16-3.175 |
| SK6-3.175 | SK10-3     | SK13-4     | SK16-4     |
| SK6-3.5   | SK10-3.175 | SK13-4.5   | SK16-4.5   |
| SK6-4     | SK10-3.5   | SK13-5     | SK16-5     |
| SK6-4.5   | SK10-4     | SK13-5.5   | SK16-5.5   |
| SK6-5     | SK10-4.5   | SK13-6     | SK16-6     |
| SK6-5.5   | SK10-5     | SK13-6.5   | SK16-6.5   |
| SK6-6     | SK10-5.5   | SK13-7     | SK16-7     |
|           | SK10-6     | SK13-8     | SK16-7.5   |
|           | SK10-6.5   | SK13-8.5   | SK16-8     |
|           | SK10-7     | SK13-9     | SK16-8.5   |
|           | SK10-7.5   | SK13-10    | SK16-9     |
|           | SK10-8     | SK13-11    | SK16-9.5   |
|           | SK10-8.5   | SK13-12    | SK16-10    |
|           | SK10-9     |            | SK16-10.5  |
|           | SK10-9.5   |            | SK16-11    |
|           | SK10-10    |            | SK16-11.5  |

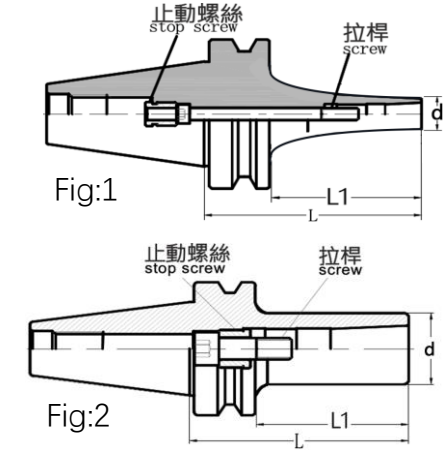
| SET NO.  | SET NO.  | SET NO.  | SET NO.  |
|----------|----------|----------|----------|
| TSK10-3  | TSK13-3  | TSK16-3  | TSK20-6  |
| TSK10-4  | TSK13-4  | TSK16-4  | TSK20-8  |
| TSK10-5  | TSK13-5  | TSK16-5  | TSK20-10 |
| TSK10-6  | TSK13-6  | TSK16-6  | TSK20-12 |
| TSK10-7  | TSK13-7  | TSK16-7  | TSK20-16 |
| TSK10-8  | TSK13-8  | TSK16-8  | TSK20-18 |
| TSK10-9  | TSK13-9  | TSK16-9  | TSK20-20 |
| TSK10-10 | TSK13-10 | TSK16-10 |          |
|          | TSK13-11 | TSK16-11 |          |
|          | TSK13-12 | TSK16-12 |          |
|          | TSK13-13 | TSK16-13 |          |
|          |          | TSK16-14 |          |
|          |          | TSK16-15 |          |
|          |          | TSK16-16 |          |

| SET NO. | SET NO. |
|---------|---------|
| SK20-6  | SK25-6  |
| SK20-8  | SK25-8  |
| SK20-10 | SK25-10 |
| SK20-12 | SK25-12 |
| SK20-16 | SK25-16 |
| SK20-18 | SK25-18 |
| SK20-20 | SK25-20 |

|           |
|-----------|
| SK16-12   |
| SK16-12.5 |
| SK16-13   |
| SK16-13.5 |
| SK16-14   |
| SK16-14.5 |
| SK16-15   |
| SK16-15.5 |
| SK16-16   |

BT-SDC後拉式刀桿

BT-SDC Rear-pull high-speed precision tool holder



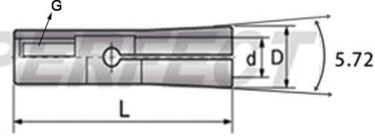
| TYPE                          |                | 扳手扭力<br>Torque setting | 夾持範圍<br>Collet (size) | L   | L1  | d  | 重量/kg | 動平衡<br>Dynamic balancing |          |
|-------------------------------|----------------|------------------------|-----------------------|-----|-----|----|-------|--------------------------|----------|
| BT30-SDC6-60 短筒夾Short collet  |                | 5Nm                    | 2-6                   | 60  | 40  | 14 | 0.50  | 30000RPM                 |          |
| BT30-SDC6-90 短筒夾Short collet  |                |                        | 2-6                   | 90  | 70  | 14 | 0.60  |                          |          |
| BT30-SDC6-90L長筒夾Long collet   |                |                        | 3-6                   | 90  | 70  | 14 | 0.60  |                          |          |
| BT30-SDC8-60 短筒夾Short collet  |                | 7Nm                    | 3-10                  | 60  | 40  | 22 | 0.50  |                          |          |
| BT30-SDC8-90 短筒夾Short collet  |                |                        | 3-10                  | 90  | 70  | 22 | 0.60  |                          |          |
| BT30-SDC8-90L長筒夾Long collet   |                |                        | 3-10                  | 90  | 70  | 22 | 0.60  |                          |          |
| BT30-SDC12-70 短筒夾Short collet |                | 15Nm                   | 3-12                  | 70  | 50  | 35 | 0.62  |                          |          |
| BT30-SDC12-90 短筒夾Short collet |                |                        | 3-12                  | 90  | 70  | 35 | 0.85  |                          |          |
| BT40-SDC6-90 短筒夾Short collet  |                | 5Nm                    | 3-6                   | 90  | 65  | 14 | 1.20  |                          | 25000RPM |
| BT40-SDC6-90L長筒夾Long collet   |                |                        | 3-6                   | 90  | 65  | 14 | 1.20  |                          |          |
| BT40-SDC6-120 短筒夾Short collet |                |                        | 3-6                   | 120 | 95  | 14 | 1.30  |                          |          |
| BT40-SDC6-120L長筒夾Long collet  |                |                        | 3-6                   | 120 | 95  | 14 | 1.30  |                          |          |
| BT40-SDC6-150 短筒夾Short collet |                |                        | 3-6                   | 150 | 125 | 14 | 1.50  |                          |          |
| BT40-SDC6-150L長筒夾Long collet  |                |                        | 3-6                   | 150 | 125 | 14 | 1.50  |                          |          |
| BT40-SDC8-90 短筒夾Short collet  |                | 7Nm                    | 3-10                  | 90  | 65  | 22 | 1.20  |                          |          |
| BT40-SDC8-90L 長筒夾Long collet  |                |                        | 3-10                  | 90  | 65  | 22 | 1.20  |                          |          |
| BT40-SDC8-120 短筒夾Short collet |                |                        | 3-10                  | 120 | 95  | 22 | 1.30  |                          |          |
| BT40-SDC8-120L長筒夾Long collet  |                |                        | 3-10                  | 120 | 95  | 22 | 1.30  |                          |          |
| BT40-SDC8-150 短筒夾Short collet |                |                        | 3-10                  | 150 | 125 | 22 | 1.50  |                          |          |
| BT40-SDC8-150L長筒夾Long collet  |                |                        | 3-10                  | 150 | 125 | 22 | 1.50  |                          |          |
| BT40-SDC12-70                 |                | 15Nm                   | 3-12                  | 70  | 43  | 32 | 1.20  |                          |          |
| BT40-DC12-90                  |                |                        | 3-12                  | 90  | 65  | 34 | 1.30  |                          |          |
| BT40-DC12-150                 |                |                        | 3-12                  | 150 | 125 | 34 | 1.90  |                          |          |
| BT50-SDC6-110 短筒夾Short collet |                | 5Nm                    | 3-6                   | 110 | 75  | 14 | 3.70  | 15000RPM                 |          |
| BT50-SDC6-110L長筒夾Long collet  |                |                        | 3-6                   | 110 | 75  | 14 | 3.70  |                          |          |
| BT50-SDC8-110 短筒夾Short collet |                | 7Nm                    | 3-10                  | 110 | 75  | 22 | 4.00  |                          |          |
| BT50-SDC8-110L長筒夾Long collet  |                |                        | 3-10                  | 110 | 75  | 22 | 4.00  |                          |          |
| BT50-SDC8-150 短筒夾Short collet |                |                        | 3-10                  | 150 | 115 | 22 | 4.20  |                          |          |
| BT50-SDC8-150L長筒夾Long collet  |                |                        | 3-10                  | 150 | 115 | 22 | 4.20  |                          |          |
| BT50-SDC12-110                |                | 15Nm                   | 3-12                  | 110 | 75  | 35 | 4.10  |                          |          |
| BT50-SDC12-150                |                |                        | 3-12                  | 150 | 115 | 35 | 4.40  |                          |          |
|                               | 訂購編號           |                        | 夾持範圍                  | L   | L1  | D  | 重量/kg | 動平衡                      |          |
| BT40                          | BT40-UC10-90L  | 15Nm                   | 3-10                  | 90  | 65  | 24 | 1.00  | 25000RPM                 |          |
|                               | BT40-UC10-120L |                        | 3-10                  | 120 | 95  | 24 | 1.50  | 25000RPM                 |          |



## SDC後拉式筒夾 Collet

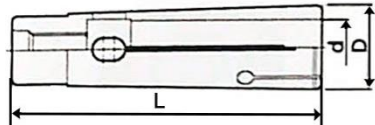
### Features:

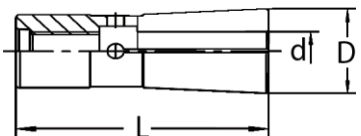
- Made of special elastic steel: 65Mn
- Hardness: HRC44-48
- AA0.008 / AAA0.005 / AAAA0.003

| SDC                                                                               | 筒夾尺寸  | L  | D   | G        | kg   | 使用六角板手 |
|-----------------------------------------------------------------------------------|-------|----|-----|----------|------|--------|
|   | SDC6  | 36 | 9.8 | M5*0.8P  | 0.01 | M4     |
|  | SDC6L | 60 | 9.8 | M5*0.8P  | 0.02 | M4     |
|                                                                                   | SDC8  | 45 | 15  | M6*1.0P  | 0.02 | M5     |
|                                                                                   | SDC8L | 65 | 15  | M6*1.0P  | 0.02 | M5     |
|                                                                                   | SDC12 | 60 | 22  | M10*1.5P | 0.07 | M8     |



| SDC6 短筒夾   | SDC6L 長筒夾   | SDC8 短筒夾   | SDC8L 長筒夾   | SDC12筒夾     |
|------------|-------------|------------|-------------|-------------|
| SDC6-1     | SDC6-3L     | SDC8-1     | SDC8-3L     | SDC12-1     |
| SDC6-1.5   | SDC6-3.175L | SDC8-1.5   | SDC8-3.175L | SDC12-1.5   |
| SDC6-2     | SDC6-4L     | SDC8-2     | SDC8-3.5L   | SDC12-2     |
| SDC6-2.5   | SDC6-5L     | SDC8-2.5   | SDC8-4L     | SDC12-2.5   |
| SDC6-3     | SDC6-6L     | SDC8-3     | SDC8-4.5L   | SDC12-3     |
| SDC6-3.175 |             | SDC8-3.175 | SDC8-5L     | SDC12-3.175 |
| SDC6-3.5   |             | SDC8-3.5   | SDC8-5.5L   | SDC12-3.5   |
| SDC6-4     |             | SDC8-4     | SDC8-6L     | SDC12-4     |
| SDC6-4.5   |             | SDC8-4.5   | SDC8-6.5L   | SDC12-4.5   |
| SDC6-5     |             | SDC8-5     | SDC8-8L     | SDC12-5     |
| SDC6-5.5   |             | SDC8-5.5   | SDC8-10L    | SDC12-5.5   |
| SDC6-6     |             | SDC8-6     |             | SDC12-6     |
|            |             | SDC8-6.5   |             | SDC12-6.5   |
|            |             | SDC8-8     |             | SDC12-8     |
|            |             | SDC8-10    |             | SDC12-10    |
|            |             |            |             | SDC12-12    |

| UC10筒夾                                                                              | d/夾持範圍  | L    | D  | G       | kg   | 使用六角板手 |
|-------------------------------------------------------------------------------------|---------|------|----|---------|------|--------|
|  | UC10-3  | 56.5 | 15 | M6*1.0P | 0.07 | M5     |
|  | UC10-4  |      |    |         |      |        |
|                                                                                     | UC10-6  |      |    |         |      |        |
|                                                                                     | UC10-8  |      |    |         |      |        |
|                                                                                     | UC10-10 |      |    |         |      |        |

| SDC4                                                                                | 訂購編號  | d/夾持範圍 | L  | D | G  | kg   | 使用六角板手 |
|-------------------------------------------------------------------------------------|-------|--------|----|---|----|------|--------|
|  | SDC4  | 1      | 31 | 7 | M4 | 0.01 | M3     |
|                                                                                     |       | 1.5    |    |   |    |      |        |
|                                                                                     |       | 2      |    |   |    |      |        |
|                                                                                     |       | 2.5    |    |   |    |      |        |
|                                                                                     |       | 3      |    |   |    |      |        |
|                                                                                     |       | 3.5    |    |   |    |      |        |
|  | SDC4L | 4      | 35 | 7 | M3 | 0.01 | M2.5   |
|                                                                                     |       | 3      |    |   |    |      |        |



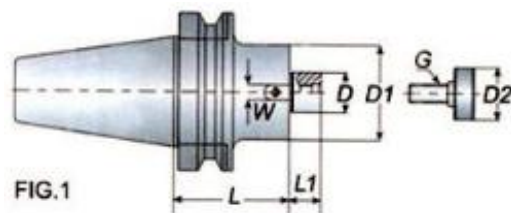
## FMA 面銑刀盤刀桿



不含刀盤



## FMB 面銑刀盤刀桿



| FMA TYPE           | D      | L   | G   | (kg) |
|--------------------|--------|-----|-----|------|
| BT30-FMA25.4-45L   | 25.4   | 45  | M12 | 0.9  |
| BT30-FMA25.4-60L   | 25.4   | 60  | M12 | 1.2  |
| BT30-FMA31.75-45L  | 31.8   | 45  | M12 | 1.3  |
| FMA TYPE           | D      | L   | G   | (kg) |
| BT40-FMA25.4-45L   | 25.4   | 45  | M12 | 1.7  |
| BT40-FMA25.4-60L   | 25.4   | 60  | M12 | 2.0  |
| BT40-FMA25.4-90L   | 25.4   | 90  | M12 | 2.6  |
| BT40-FMA25.4-105L  | 25.4   | 105 | M12 | 2.9  |
| BT40-FMA31.75-45L  | 31.75  | 45  | M12 | 1.8  |
| BT40-FMA31.75-60L  | 31.75  | 60  | M12 | 2.3  |
| BT40-FMA31.75-90L  | 31.75  | 90  | M12 | 3.2  |
| BT40-FMA31.75-105L | 31.75  | 105 | M12 | 3.3  |
| BT40-FMA38.1-60L   | 38.1   | 60  | M16 | 2.8  |
| FMA TYPE           | D      | L   | G   | (kg) |
| BT50-FMA25.4-45L   | 25.4   | 45  | M12 | 4.2  |
| BT50-FMA25.4-75L   | 25.4   | 75  | M12 | 4.9  |
| BT50-FMA25.4-105L  | 25.4   | 105 | M12 | 5.3  |
| BT50-FMA25.4-150L  | 25.4   | 150 | M12 | 6.1  |
| BT50-FMA25.4-200L  | 25.4   | 200 | M12 | 7.3  |
| BT50-FMA25.4-250L  | 25.4   | 250 | M12 | 8.2  |
| BT50-FMA25.4-300L  | 25.4   | 300 | M12 | 9.3  |
| BT50-FMA31.75-45L  | 31.75  | 45  | M12 | 4.4  |
| BT50-FMA31.75-75L  | 31.75  | 75  | M12 | 5.3  |
| BT50-FMA31.75-105L | 31.75  | 105 | M12 | 6.2  |
| BT50-FMA38.1-75L   | 38.1   | 75  | M16 | 5.9  |
| BT50-FMA50.8-45L   | 50.8   | 45  | M16 | 5.0  |
| BT50-FMA50.8-75L   | 50.8   | 75  | M16 | 6.6  |
| BT50-FMA47.625-75L | 47.625 | 75  |     | 8.3  |

| FMB TYPE        | D  | L   | G   | (KG) |
|-----------------|----|-----|-----|------|
| BT30-FMB22-45L  | 22 | 45  | M10 | 0.8  |
| BT30-FMB27-45L  | 27 | 45  | M12 | 1    |
| FMB TYPE        | D  | L   | G   | (KG) |
| BT40-FMB22-45L  | 22 | 45  | M10 | 1.4  |
| BT40-FMB22-60L  | 22 | 60  | M10 | 1.6  |
| BT40-FMB22-90L  | 22 | 90  | M10 | 2.1  |
| BT40-FMB22-120L | 22 | 120 | M10 | 2.4  |
| BT40-FMB22-150L | 22 | 150 | M10 | 2.8  |
| BT40-FMB22-200L | 22 | 200 | M10 | 3.5  |
| BT40-FMB22-250L | 22 | 250 | M10 | 3.5  |
| BT40-FMB27-45L  | 27 | 45  | M12 | 1.7  |
| BT40-FMB27-60L  | 27 | 60  | M12 | 2    |
| BT40-FMB27-90L  | 27 | 90  | M12 | 2.6  |
| BT40-FMB32-60L  | 32 | 60  | M16 | 2.1  |
| BT40-FMB40-60L  | 40 | 60  | M16 | 2.7  |
| FMB TYPE        | D  | L   | G   | (KG) |
| BT50-FMB22-45L  | 22 | 45  | M10 | 4    |
| BT50-FMB22-75L  | 22 | 75  | M10 | 4.5  |
| BT50-FMB22-105L | 22 | 105 | M10 | 4.8  |
| BT50-FMB22-120L | 22 | 120 | M10 | 5.2  |
| BT50-FMB22-150L | 22 | 150 | M10 | 5.6  |
| BT50-FMB27-75L  | 27 | 75  | M12 | 5    |
| BT50-FMB27-105L | 27 | 105 | M12 | 5.8  |
| BT50-FMB32-75L  | 32 | 75  | M16 | 5.4  |
| BT50-FMB32-105L | 32 | 105 | M16 | 6.6  |
| BT50-FMB32-75L  | 40 | 75  | M16 | 5.9  |
| BT50-FMB32-105L | 40 | 105 | M16 | 6.9  |
| BT50-FMB60-75L  | 60 | 75  | -   | 7.3  |

## 刀盤 吊桿連接桿

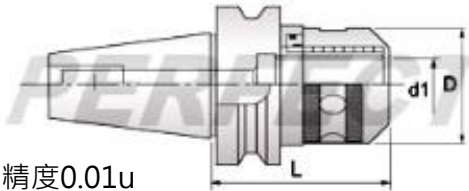


| TYPE      | TYPE      | TYPE      | TYPE      |
|-----------|-----------|-----------|-----------|
| C12-FMB22 | C20-FMB27 | C20-FMB32 | C20-FMB40 |
| C16-FMB22 | C25-FMB27 | C25-FMB32 | C25-FMB40 |
| C20-FMB22 | C32-FMB27 | C32-FMB32 | C32-FMB40 |
| C25-FMB22 |           |           | C40-FMB40 |
| C32-FMB22 |           |           |           |



JIS B6339/DIN6499 /CAT

C / DCM 強力型銑刀桿



精度0.01u

| DCM TYPE        | d  | D  | L   | kg   |
|-----------------|----|----|-----|------|
| BT30-DCM20-85L  | 20 | 55 | 85  | 1.30 |
| BT30-DCM25-85L  | 25 | 58 | 85  | 1.60 |
| BT30-DCM32-90L  | 32 | 68 | 90  | 2.00 |
| BT40-DCM20-85L  | 20 | 55 | 85  | 1.90 |
| BT40-DCM20-105L | 20 | 55 | 105 | 2.30 |
| BT40-DCM25-85L  | 25 | 58 | 85  | 1.50 |
| BT40-DCM25-105L | 25 | 58 | 105 | 1.80 |
| BT40-DCM25-135L | 25 | 58 | 135 | 2.70 |
| BT40-DCM25-150L | 25 | 58 | 150 | 3.30 |
| BT40-DCM32-90L  | 32 | 68 | 90  | 2.35 |
| BT40-DCM32-105L | 32 | 68 | 105 | 2.46 |
| BT40-DCM32-135L | 32 | 68 | 135 | 3.14 |
| BT40-DCM32-150L | 32 | 68 | 150 | 3.80 |
| BT50-DCM32-105L | 32 | 68 | 105 | 4.95 |
| BT50-DCM32-135L | 32 | 68 | 135 | 6.00 |
| BT50-DCM32-165L | 32 | 68 | 165 | 6.50 |
| BT50-DCM42-105L | 42 | 88 | 105 | 5.40 |
| BT50-DCM42-165L | 42 | 88 | 165 | 7.60 |

| DCM TYPE        | d  | D  | L   | kg   |
|-----------------|----|----|-----|------|
| NT30-DCM20-85L  | 20 | 55 | 85  | 1.30 |
| NT30-DCM25-85L  | 25 | 58 | 85  | 1.60 |
| NT40-DCM20-105L | 20 | 55 | 105 | 1.90 |
| NT40-DCM25-105L | 25 | 58 | 105 | 1.80 |
| NT40-DCM32-105L | 32 | 68 | 105 | 2.46 |
| NT50-DCM32-105L | 32 | 68 | 105 | 4.95 |
| NT50-DCM42-105L | 42 | 88 | 105 | 5.40 |

NT



NT30英制為1/2  
公制為M12  
NT40英制為5/8  
公制為M16  
NT50英制為1/8  
公制為M24

MTA



MTA3-C32  
MTA4-C32  
MTA5-C32  
MTA6-C32

MTB



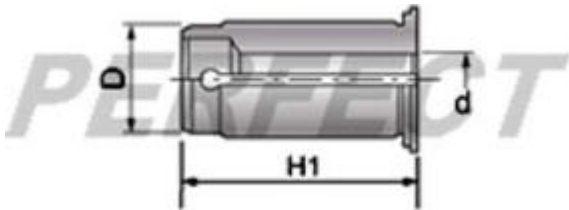
MTB3-C32  
MTB4-C32  
MTB5-C32  
MTB6-C32

每個DCM刀桿均附一支扳手



DCM20=ø45  
DCM25=ø50  
DCM32=ø58  
DCM42=ø82

DCM 筒夾Collet

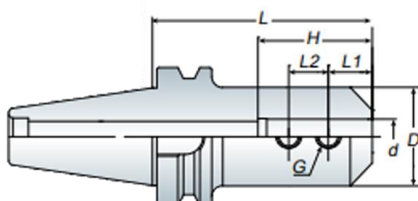


| TYPE   | d          | D  | H1   |
|--------|------------|----|------|
| DCM20- | 4 ~ 16     | 20 | 52.7 |
| DCM25- | 4 ~ 20     | 25 | 63.0 |
| DCM32- | 4 ~ 25 1/8 | 32 | 70.4 |
| DCM42- | 6 ~ 32     | 42 | 80.0 |



## SLA 側固式刀桿

## SLA End mill Holder

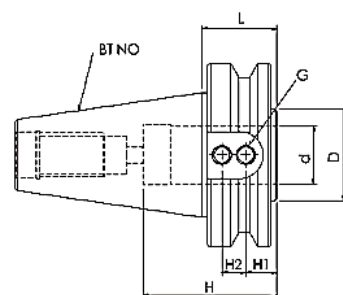


| TYPE            | d  | D  | L   | G   | Weight(kg) |
|-----------------|----|----|-----|-----|------------|
| BT30-SLA6-60L   | 6  | 25 | 60  | M6  | 0.60       |
| BT30-SLA8-60L   | 8  | 28 | 60  | M8  | 0.65       |
| BT30-SLA10-60L  | 10 | 35 | 60  | M10 | 0.70       |
| BT30-SLA12-60L  | 12 | 40 | 60  | M10 | 0.80       |
| BT30-SLA16-60L  | 16 | 45 | 75  | M10 | 0.80       |
| BT30-SLA20-75L  | 20 | 50 | 75  | M12 | 1.10       |
| BT30-SLA25-75L  | 25 | 55 | 75  | M12 | 1.10       |
| BT40-SLA6-75L   | 6  | 25 | 75  | M6  | 1.20       |
| BT40-SLA6-100L  | 6  | 25 | 100 | M6  | 1.30       |
| BT40-SLA8-75L   | 8  | 28 | 75  | M8  | 1.25       |
| BT40-SLA8-100L  | 8  | 28 | 100 | M8  | 1.40       |
| BT40-SLA10-75L  | 10 | 35 | 75  | M10 | 1.35       |
| BT40-SLA10-100L | 10 | 35 | 100 | M10 | 1.50       |
| BT40-SLA12-75L  | 12 | 40 | 75  | M10 | 1.45       |
| BT40-SLA12-100L | 12 | 40 | 100 | M10 | 1.65       |
| BT40-SLA16-75L  | 16 | 42 | 75  | M10 | 1.50       |
| BT40-SLA16-100L | 16 | 42 | 100 | M10 | 1.85       |
| BT40-SLA20-75L  | 20 | 50 | 75  | M12 | 1.60       |
| BT40-SLA20-100L | 20 | 50 | 100 | M12 | 2.00       |
| BT40-SLA25-75L  | 25 | 55 | 75  | M12 | 1.60       |
| BT40-SLA25-100L | 25 | 55 | 100 | M12 | 2.00       |

| TYPE              | d    | D  | L   | G   | Weight(kg) |
|-------------------|------|----|-----|-----|------------|
| BT40-SLA32-90L    | 32   | 60 | 90  | M16 | 2.00       |
| BT40-SLA40-105L   | 40   | 80 | 105 | M16 | 3.10       |
| BT40-SLA42-105L   | 42   | 80 | 105 | M20 | 3.10       |
| BT50-SLA6-105L    | 6    | 25 | 105 | M6  | 4.10       |
| BT50-SLA8-105L    | 8    | 28 | 105 | M8  | 4.10       |
| BT50-SLA10-105L   | 10   | 35 | 105 | M10 | 4.20       |
| BT50-SLA12-105L   | 12   | 40 | 105 | M10 | 4.35       |
| BT50-SLA16-105L   | 16   | 45 | 105 | M10 | 4.45       |
| BT50-SLA20-105L   | 20   | 20 | 105 | M12 | 4.50       |
| BT50-SLA20-150L   | 20   | 20 | 150 | M12 | 5.20       |
| BT50-SLA20-200L   | 20   | 20 | 200 | M12 | 5.90       |
| BT50-SLA25-105L   | 25   | 55 | 105 | M12 | 4.60       |
| BT50-SLA25-150L   | 25   | 55 | 150 | M12 | 5.40       |
| BT50-SLA25-200L   | 25   | 55 | 200 | M12 | 6.50       |
| BT50-SLA32-105L   | 32   | 60 | 105 | M16 | 4.70       |
| BT50-SLA32-150L   | 32   | 60 | 150 | M16 | 5.80       |
| BT50-SLA32-200L   | 32   | 60 | 200 | M16 | 6.60       |
| BT50-SLA40-120L   | 40   | 80 | 120 | M20 | 6.00       |
| BT50-SLA42-120L   | 42   | 80 | 120 | M20 | 6.30       |
| BT50-SLA50.8-120L | 50.8 | 95 | 120 | M20 | 6.6        |

## SLN 超短側固式

## SLN End mill Holder



| ORDER NO.     | Ø d | D  | L  | H  | H1  | H2 | G        |
|---------------|-----|----|----|----|-----|----|----------|
| BT40-SLN10-35 | 10  | 35 |    | 65 | 7.5 | 18 | M8*P1.25 |
| BT40-SLN12-35 | 12  | 38 |    | 65 | 7.5 | 18 |          |
| BT40-SLN16-35 | 16  | 40 | 35 | 70 | 7.5 | 18 |          |
| BT40-SLN20-35 | 20  | 45 | 35 | 58 | 7.5 | 18 |          |
| BT40-SLN25-35 | 25  | 55 | 35 | 65 | 12  | 25 | M10*P1.5 |
| BT40-SLN32-60 | 32  | 60 | 48 | 70 | 12  | 25 |          |
| BT50-SLN16-38 | 16  | 50 | 43 | 95 | 19  | 13 | M10*P1.5 |
| BT50-SLN20-38 | 20  | 50 | 43 | 80 | 19  | 13 |          |

| ORDER NO.       | Ø d  | D  | L  | H  | H1  | H2 | G         |
|-----------------|------|----|----|----|-----|----|-----------|
| BT50-SLN25-38   | 25   | 50 | 43 | 70 | 19  | 13 | M10*P1.5  |
| BT50-SLN32-38   | 32   | 60 | 63 | 95 | 14  | 31 | M16*P2.0  |
| BT50-SLN40-38   | 40   | 70 | 63 | 95 | 14  | 31 | M14*P2.0  |
| BT50-SLN42-52   | 42   | 70 | 52 | 85 | 7.5 | 25 | M12*P1.75 |
| BT50-SLN50-70   | 50   | 90 | 68 | 93 | 16  | 31 |           |
| BT50-SLN50.8-68 | 50.8 | 90 | 68 | 93 | 16  | 31 |           |



SLA 側固式延長桿

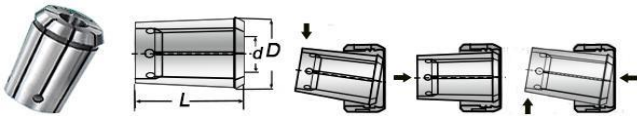


| TYPE              | TYPE           | TYPE           |
|-------------------|----------------|----------------|
| C8-SLA3-100L      | C12-SLA4-150L  | C20-SLA3-100L  |
| C8-SLA3.175-100L  | C12-SLA5-150L  | C20-SLA4-100L  |
| C8-SLA4-100L      | C12-SLA6-150L  | C20-SLA5-100L  |
| C8-SLA3-150L      | C12-SLA8-150L  | C20-SLA6-100L  |
| C8-SLA4-150L      | C16-SLA3-100L  | C20-SLA8-100L  |
| C8-SLA3.175-150L  | C16-SLA4-100L  | C20-SLA10-100L |
| C10-SLA3-100L     | C16-SLA5-100L  | C20-SLA12-100L |
| C10-SLA3.175-100L | C16-SLA6-100L  | C20-SLA3-150L  |
| C10-SLA4-100L     | C16-SLA8-100L  | C20-SLA4-150L  |
| C10-SLA5-100L     | C16-SLA10-100L | C20-SLA5-150L  |
| C10-SLA6-100L     | C16-SLA3-150L  | C20-SLA6-150L  |
| C10-SLA3-150L     | C16-SLA4-150L  | C20-SLA8-150L  |
| C10-SLA3.175-150L | C16-SLA5-150L  | C20-SLA10-150L |
| C10-SLA4-150L     | C16-SLA6-150L  | C20-SLA12-150L |
| C10-SLA5-150L     | C16-SLA8-150L  | C20-SLA3-200L  |
| C10-SLA6-150L     | C16-SLA10-150L | C20-SLA4-200L  |
| C12-SLA3-100L     | C16-SLA3-200L  | C20-SLA5-200L  |
| C12-SLA4-100L     | C16-SLA8-200L  | C20-SLA6-200L  |
| C12-SLA5-100L     | C16-SLA10-200L | C20-SLA8-200L  |
| C12-SLA6-100L     | C16-SLA4-200L  | C20-SLA10-200L |
| C12-SLA8-100L     | C16-SLA5-200L  |                |
| C12-SLA3-150L     | C16-SLA6-200L  |                |

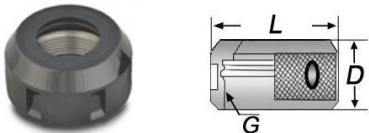
OZ (EOC) 重切削刀桿



| OZ TYPE        | Rdnge $\phi$ d | D  | Weight(kg) |
|----------------|----------------|----|------------|
| BT40-OZ25-80L  | 3~25           | 60 | 1.7        |
| BT40-OZ25-120L | 3~25           | 60 | 2.6        |
| BT40-OZ32-80L  | 6~32           | 72 | 2.1        |
| BT50-OZ25-100L | 3~25           | 60 | 4.6        |
| BT50-OZ32-100L | 6~32           | 72 | 5.4        |



| OZ筒夾  | d          | D    | L  | Weight(kg) |
|-------|------------|------|----|------------|
| OZ25- | 1/8 3 ~ 20 | 35.5 | 52 | 0.17       |
| OZ32- | 1/8 3 ~ 32 | 44   | 60 | 0.36       |



| OZ螺帽   | D  | L  | G        | Weight(kg) |
|--------|----|----|----------|------------|
| XAOZ25 | 60 | 30 | M48x2.0p | 0.30       |
| XAOZ32 | 78 | 30 | M60x2.5p | 0.65       |



| OZ 扳手  | C  | Weight(kg) |
|--------|----|------------|
| 1GOZ25 | 60 | 0.30       |
| 1GOZ32 | 78 | 0.45       |



## BT-APU鑽夾頭刀桿 Drill chuck bar

JIS B6339/DIN6499 /CAT

| APU TYPE         | Reange | D    | Weight(kg) |
|------------------|--------|------|------------|
| BT30-APU08-80L   | 1 ~ 8  | 36.3 | 1.0        |
| BT30-APU013-100L | 1 ~ 13 | 51.5 | 1.5        |
| BT40-APU08-85L   | 1 ~ 8  | 36.3 | 1.5        |
| BT40-APU013-100L | 1 ~ 13 | 51.5 | 1.9        |
| BT40-APU016-130L | 3 ~ 16 | 58.0 | 2.6        |
| BT50-APU013-100L | 1 ~ 13 | 51.5 | 4.4        |
| BT50*APU013-130L | 1 ~ 13 | 51.5 | 4.8        |
| BT50*APU013-180L | 1 ~ 13 | 51.5 | 5.8        |
| BT50*APU016-130L | 3 ~ 16 | 58.0 | 5.1        |



BT



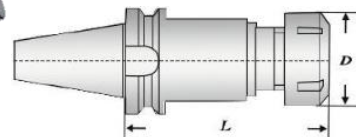
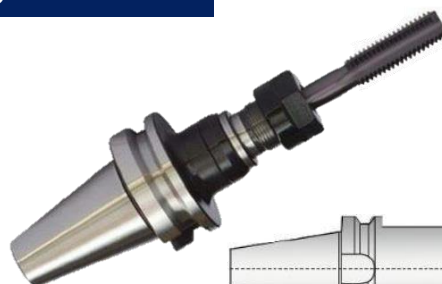
MTA



APU13鑽夾頭扳手範圍48-52mm  
APU16鑽夾頭扳手範圍54-58mm

## BT-TER直柄剛性伸縮攻牙器 Tapping Chuck

| TYPE       | D  | L  | Tapping Range |
|------------|----|----|---------------|
| BT30-TER16 | 28 | 77 | M3~M10        |
| BT30-TER20 | 34 | 86 | M3~M12        |
| BT40-TER16 | 28 | 77 | M3~M10        |
| BT40-TER20 | 34 | 86 | M3~M12        |
| BT40-TER25 | 42 | 90 | M4~M16        |
| BT40-TER32 | 50 | 94 | M4~M22        |
| BT40-TER40 | 63 | 98 | M6~M30        |



## C-TER直柄剛性伸縮攻牙器 Tapping Chuck

| TYPE      | D  | L  | Tapping Range | Weight (kg) |
|-----------|----|----|---------------|-------------|
| C20-TER16 | 28 | 75 | M3~M10        | 0.40        |
| C20-TER20 | 34 | 80 | M3~M12        | 0.50        |
| C20-TER25 | 42 | 80 | M3~M16        | 0.80        |
| C25-TER16 | 28 | 75 | M3~M10        | 0.50        |
| C25-TER20 | 34 | 80 | M3~M12        | 0.60        |
| C25-TER25 | 42 | 80 | M4~M16        | 0.90        |
| C25-TER32 | 50 | 80 | M4~M22        | 1.10        |
| C32-TER16 | 28 | 75 | M3~M10        | 0.70        |
| C32-TER20 | 34 | 80 | M3~M12        | 0.80        |
| C32-TER25 | 42 | 80 | M4~M16        | 1.00        |
| C32-TER32 | 50 | 80 | M4~M22        | 1.20        |



## 四方車床鑽孔TER延長桿

Tapping Chuck

| TYPE          |
|---------------|
| TT16*16-TER16 |
| TT20*20-TER20 |
| TT25*25-TER25 |
| TT25-25-TER32 |



拉伸8  
壓縮3





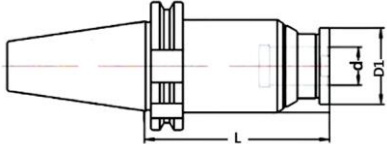
柔性扭力伸缩攻牙刀柄

Flexible torque-limiting telescopic tap holder

JIS B6339/DIN6499 /CAT

| TYPE          | TYPE       |
|---------------|------------|
| BT30-GT12-125 | JT30-GT12  |
| BT40-GT12-110 | JT40-GT12  |
| BT40-GT12-150 | JT50-GT12  |
| BT40-GT12-200 | JT50-GT24  |
| BT40-GT12-250 | JT50-GT42  |
| BT40-GT24-130 | CAT30-GT12 |
| BT40-GT24-200 | CAT40-GT12 |
| BT40-GT24-250 | CAT50-GT12 |
| BT50-GT12-110 | CAT50-GT24 |
| BT50-GT12-150 | CAT50-GT42 |
| BT50-GT12-200 | MTA2-GT12  |
| BT50-GT12-250 | MTA3-GT12  |
| BT50-GT24-130 | MTA4-GT12  |
| BT50-GT24-200 | MTA5-GT12  |
| BT50-GT24-250 | MTA3-GT24  |
| BT50-GT42-180 | MTA4-GT24  |
|               | MTA5-GT24  |
|               | MTA5-GT42  |

|      | d  | D1 | 可安裝絲攻尺寸<br>Applicable tap size range | 伸長度<br>Extension range |
|------|----|----|--------------------------------------|------------------------|
| GT12 | 19 | 40 | M1~M16                               | 12                     |
| GT24 | 30 | 60 | M5~M30                               | 15                     |



莫氏扁尾 莫氏螺紋 R8 直柄 BT刀柄



柔性扭力轉接套

Flexible torque adapter



|           | 錐孔<br>Countersink hole | 直孔鍵槽<br>Straight hole |
|-----------|------------------------|-----------------------|
| MTA / MTB | 錐度/mm                  | Φ直孔/mm                |
| MT2=17.78 | 12.065=B12             | 10                    |
| MT3=23.82 | 15.733=B16             | 12                    |
| MT4=31.26 | 17.78=B18              | 14                    |
| MT5=44.39 | 14.199=JT2             | 18                    |
|           | 17.17=JT6              | 19                    |
|           |                        | 20                    |

轉接套

扭力夾頭

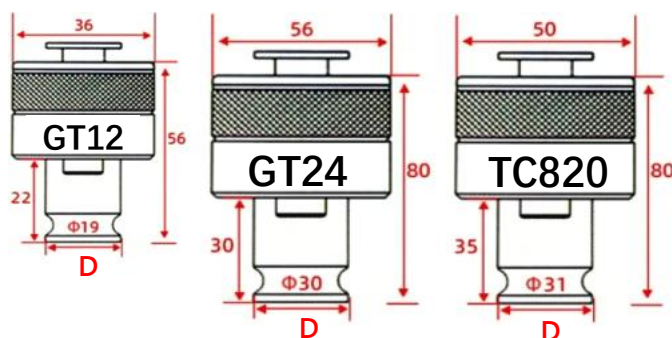
絲攻

| GT12錐孔 countersink | GT24錐孔 countersink | TC820錐孔Straight    | GT12 直孔Straight   |
|--------------------|--------------------|--------------------|-------------------|
| B10-GT12 接口19      | 錐孔 B16-GT24 接口30   | B18-TC820 接口31     | 螺紋孔GT12-1/2-20UNF |
| B12-GT12 接口19      | 錐孔 B18-GT24 接口30   | B16-TC820 接口31     | 螺紋孔GT12-3/8-24UNF |
| B16 -GT12 接口19     | 錐孔 B22-GT24 接口30   | B22-TC820 接口31     | 螺紋孔GT12-M12*1.25  |
| B18 -GT12 接口19     | 錐孔 JT6-GT24 接口30   | JT6-TC820 接口31     |                   |
| JT2-GT12 接口19      | GT24直孔鍵槽Straight   | TC820 直孔鍵槽Straight | 四方孔GT12-□12.7     |
| JT6 -GT12 接口19     | Φ14-GT24 接口30      | Φ14-TC820 接口31     | MTB-GT            |
| GT12直孔鍵槽Straight   | Φ16-GT24 接口30      | Φ16-TC820 接口31     | MTB2螺紋M10-GT12    |
| Φ8-GT12 接口19無鍵槽    | Φ18-GT24 接口30      | Φ18-TC820 接口31     | MTB3螺紋M12-GT12    |
| Φ10-GT12 接口19      | Φ19-GT24 接口30      | Φ19-TC820 接口31     | MTB4螺紋M14-GT12    |
| Φ12-GT12 接口19      | Φ20-GT24 接口30      | Φ20-TC820 接口31     | MTB3螺紋M12-GT24    |
| Φ12.7-GT12 接口19    | Φ22-GT24 接口30      | Φ22-TC820 接口31     | MTB4螺紋M14-GT24    |
| Φ14-GT12 接口19      | Φ24-GT24 接口30      | Φ24-TC820 接口31     |                   |
| Φ15-GT12 接口19      | Φ25-GT24 接口30      | Φ25-TC820 接口31     |                   |
| Φ16-GT12 接口19      | MTA-GT             | MTA-GT             | MTA-GT            |
| Φ18 -GT12 接口19     | MT2-GT12接口19       | MT3-GT12接口19       | MT4-GT12接口19      |
| Φ19-GT12 接口19      | MT2-TC820接口31      | MT3-TC820接口31      | MT4-TC820接口31     |
| Φ20-GT12 接口19      | MT2-GT24接口30       | MT3-GT24接口30       | MT4-GT24接口30      |
|                    |                    |                    | MT5-GT12接口19      |
|                    |                    |                    | MT5-TC82接口31      |
|                    |                    |                    | MT5-GT24接口30      |



## 柔性扭力絲攻夾頭

Flexible torque-limiting tap chuck



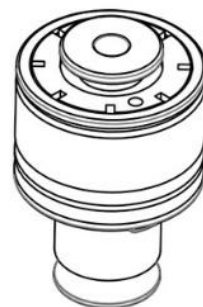
選購前請量絲攻尺寸D1跟D2的位置

絲攻TAPS



## GT12 - 19柄

| ISO國標 TAPS |      |      | JIS日標 TAPS |      |     | DIN德標 TAPS |     |      | INC英制 TAPS |      |      |
|------------|------|------|------------|------|-----|------------|-----|------|------------|------|------|
| M          | D1   | D2   | M          | D1   | D2  | M          | D1  | D2   | M          | D1   | D2   |
| M2         | 2.5  | 2.1  | M2         | 3    | 2.5 | M2         | 2.8 | 2.25 | 1/8        | 4    | 3.15 |
| M3         | 3.15 | 2.5  | M3         | 4    | 3.2 | M3         | 3.5 | 2.7  | 5/32       | 5    | 4    |
| M3         | 3.15 | 2.5  | M4         | 5    | 4   | M4         | 4.5 | 3.4  | 3/16       | 5.5  | 4.5  |
| M4         | 4    | 3.15 | M5         | 5.5  | 4.5 | M5-6       | 6   | 4.9  | 1/4        | 6    | 4.5  |
| M5         | 5    | 4    | M6         | 6    | 4.5 | M8         | 8   | 6.2  | 5/16       | 6.2  | 5    |
| M6         | 6.3  | 5    | M8         | 6.2  | 5   | M10        | 10  | 8    | 3/8        | 7    | 5.5  |
| M8         | 6.3  | 5    | M10        | 7    | 5.5 | M12        | 9   | 7    | 1/2        | 9    | 7.1  |
| M10        | 8    | 6.3  | M12        | 8.5  | 6.5 | M14        | 11  | 9    | 9/16       | 11.2 | 11.2 |
| M12        | 9    | 7.1  | M14        | 10.5 | 8   | M16        | 12  | 9    | 5/8        | 12.5 | 10   |
| M14        | 11.2 | 9    | M16        | 12.5 | 10  | M18        | 14  | 11   | 3/4        | 14   | 11.2 |
| M16        | 12.5 | 10   | M18        | 14   | 11  | M20        | 16  | 12   | PT1/8      | 8    | 6.3  |
| M18-20     | 14   | 11.2 | M20        | 15   | 12  |            |     |      | PT1/4      | 11.2 | 9    |
|            |      |      |            |      |     |            |     |      | PT3/8      | 14   | 11   |



31GGT

扭力絲攻夾頭扳手

GT12=26

GT24=42

TC820=38



## GT24-30柄 TC820-31柄

| 國標ISO TAPS |      |      | 日標JIS TAPS |      |     | 德標DIN TAPS |    |      | 英制INC TAPS |      |      |
|------------|------|------|------------|------|-----|------------|----|------|------------|------|------|
| M          | D1   | D2   | M          | D1   | D2  | M          | D1 | D2   | M          | D1   | D2   |
| M5         | 5    | 4    | M5         | 5.5  | 4.5 | M5-6       | 6  | 4.6  | 5/32       | 5    | 4    |
| M6         | 6.3  | 5    | M6         | 6    | 4.5 | M8         | 8  | 6.2  | 3/16       | 5.5  | 4.5  |
| M10        | 8    | 6.3  | M8         | 6.2  | 5   | M10        | 10 | 8    | 1/4        | 6    | 4.5  |
| M12        | 9    | 7.1  | M10        | 7    | 5.5 | M12        | 9  | 7    | 5/16       | 6.2  | 5    |
| M14        | 11.2 | 9    | M12        | 8.5  | 6.5 | M14        | 11 | 9    | 3/8        | 7    | 5.5  |
| M16        | 12.5 | 10   | M14        | 10.5 | 8   | M16        | 12 | 9    | 1/2        | 9    | 7.1  |
| M18-20     | 14   | 11.2 | M16        | 12.5 | 10  | M18        | 14 | 11   | 9/16       | 11.2 | 9    |
| M22        | 16   | 12.5 | M18        | 14   | 11  | M20        | 16 | 12   | 5/8        | 12.5 | 10   |
| M24        | 18   | 14   | M20        | 15   | 12  | M22-24     | 18 | 14.5 | 3/4        | 14   | 11.2 |
| M27-30     | 20   | 16   | M22        | 17   | 13  | M30        | 22 | 18   | 7/8        | 16   | 12.5 |
| M33        | 22.4 | 18   | M24        | 19   | 15  | M33        | 25 | 20   | PT1/8      | 8    | 6.3  |
| M36        | 25   | 20   | M27        | 20   | 15  | M36        | 28 | 22   | PT1/4      | 11.2 | 9    |
|            |      |      | M30        | 23   | 17  |            |    |      | PT3/8      | 14   | 11   |
|            |      |      | M33        | 25   | 19  |            |    |      | PT1/2      | 18   | 14   |
|            |      |      | M36        | 28   | 21  |            |    |      | PT3/4      | 23   | 17   |
|            |      |      |            |      |     |            |    |      | PT1        | 26   | 21   |



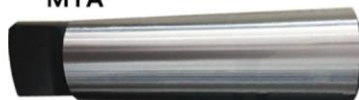
## Morse taper tool holder

莫式錐度刀桿  
BT-MTA莫式錐度刀桿  
BT-MTB

| MTA TYPE       | D  | L   | Weight (kg) | 鑽頭    | 鉸刀      | 立銑刀   |
|----------------|----|-----|-------------|-------|---------|-------|
| BT30-MTA1-45L  | 25 | 45  | 0.5         | 2~14  | 5~14    | 10~14 |
| BT30-MTA1-120L | 25 | 120 | 0.8         | 2~14  | 5~14    | 10~14 |
| BT30-MTA2-60L  | 32 | 60  | 0.6         | 14~23 | 14.5~23 | 16~22 |
| BT30-MTA2-120L | 32 | 120 | 1.0         | 14~23 | 14.5~23 | 16~22 |
| BT30-MTA3-90L  | 40 | 90  | 0.9         | 23~32 | 24~32   | 24~32 |
| BT30-MTA3-135L | 40 | 135 | 1.3         | 23~32 | 24~32   | 24~32 |
| BT40-MTA1-45L  | 25 | 45  | 1.1         | 2~14  | 5~14    | 10~14 |
| BT40-MTA1-120L | 25 | 120 | 1.4         | 2~14  | 5~14    | 10~14 |
| BT40-MTA2-45L  | 32 | 45  | 1.1         | 14~23 | 14.5~23 | 16~22 |
| BT40-MTA2-120L | 32 | 120 | 1.6         | 14~23 | 14.5~23 | 16~22 |
| BT40-MTA3-75L  | 40 | 75  | 1.2         | 23~32 | 24~32   | 24~32 |
| BT40-MTA3-135L | 40 | 135 | 1.9         | 23~32 | 24~32   | 24~32 |
| BT40-MTA4-90L  | 50 | 90  | 1.5         | 32~50 | 32~50   | 35~50 |
| BT50-MTA1-45L  | 25 | 45  | 3.8         | 2~14  | 5~14    | 10~14 |
| BT50-MTA1-120L | 25 | 120 | 4.2         | 2~14  | 5~14    | 10~14 |
| BT50-MTA2-45L  | 32 | 45  | 3.8         | 14~23 | 14.5~23 | 16~22 |
| BT50-MTA2-135L | 32 | 135 | 4.4         | 14~23 | 14.5~23 | 16~22 |
| BT50-MTA3-60L  | 40 | 60  | 3.6         | 23~32 | 24~32   | 24~32 |
| BT50-MTA3-150L | 40 | 150 | 4.7         | 23~32 | 24~32   | 24~32 |
| BT50-MTA4-75L  | 50 | 75  | 3.8         | 32~50 | 32~50   | 35~50 |
| BT50-MTA5-105L | 65 | 105 | 4.1         | 50~75 | 50.0    | 40~75 |

| MTB TYPE       | D  | L   | Weight (kg) | 鑽頭    | 鉸刀      | 立銑刀   |
|----------------|----|-----|-------------|-------|---------|-------|
| BT40-MTB1-45L  | 25 | 45  | 1.1         | 2~14  | 5~14    | 10~14 |
| BT40-MTB2-45L  | 32 | 45  | 1.1         | 14~23 | 14.5~23 | 16~22 |
| BT40-MTB3-75L  | 40 | 75  | 1.2         | 23~32 | 24~32   | 24~32 |
| BT40-MTB4-75L  | 50 | 75  | 1.5         | 32~50 | 32~50   | 35~50 |
| BT50-MTB1-45L  | 25 | 45  | 3.8         | 2~14  | 5~14    | 10~14 |
| BT50-MTB2-45L  | 32 | 45  | 3.8         | 14~23 | 14.5~23 | 16~22 |
| BT50-MTB3-60L  | 40 | 60  | 3.6         | 23~32 | 24~32   | 24~32 |
| BT50-MTB4-75L  | 50 | 75  | 3.8         | 32~50 | 32~50   | 35~50 |
| BT50-MTB5-120L | 65 | 120 | 4.1         | 50~75 | 50.0    | 40~75 |

MTA



MTB



## BT-SCA側銑刀桿 Side-milling cutter arbor



端面銑刀盤

三面刃銑刀盤

| TYPE            |
|-----------------|
| BT30-SCA16-75L  |
| BT30-SCA16-90L  |
| BT30-SCA16-120L |
| BT30-SCA22-75L  |
| BT30-SCA22-90L  |
| BT30-SCA22-120L |
| BT30-SCA27-75L  |
| BT30-SCA27-90L  |
| BT30-SCA27-120L |
| BT30-SCA32-75L  |
| BT30-SCA32-90L  |
| BT30-SCA32-120L |

| TYPE            | TYPE              |
|-----------------|-------------------|
| BT40-SCA16-75L  | BT40-SCA25.4-75L  |
| BT40-SCA16-90L  | BT40-SCA25.4-90L  |
| BT40-SCA16-120L | BT40-SCA25.4-120L |
| BT40-SCA22-75L  | BT40-SCA40-75L    |
| BT40-SCA22-90L  | BT40-SCA40-90L    |
| BT40-SCA22-120L | BT40-SCA40-120L   |
| BT40-SCA27-75L  | BT40-SCA50-120L   |
| BT40-SCA27-90L  | BT40-SCA50-150L   |
| BT40-SCA27-120L | BT40-SCA50-200L   |
| BT40-SCA32-75L  | BT40-SCA50-250L   |
| BT40-SCA32-90L  |                   |
| BT40-SCA32-120L |                   |

| TYPE            | TYPE            |
|-----------------|-----------------|
| BT50-SCA16-90L  | BT50-SCA32-300L |
| BT50-SCA16-135L | BT50-SCA40-90L  |
| BT50-SCA16-150L | BT50-SCA40-135L |
| BT50-SCA22-90L  | BT50-SCA40-150L |
| BT50-SCA22-135L | BT50-SCA40-200L |
| BT50-SCA22-150L | BT50-SCA40-250L |
| BT50-SCA27-90L  | BT50-SCA40-300L |
| BT50-SCA27-135L | BT50-SCA40-350L |
| BT50-SCA27-150L | BT50-SCA50-90L  |
| BT50-SCA27-200L | BT50-SCA50-135L |
| BT50-SCA27-250L | BT50-SCA50-150L |
| BT50-SCA27-300L | BT50-SCA50-200L |
| BT50-SCA32-90L  | BT50-SCA50-250L |
| BT50-SCA32-135L | BT50-SCA50-300L |
| BT50-SCA32-150L | BT50-SCA50-350L |
| BT50-SCA32-200L | BT50-SCA32-300L |
| BT50-SCA32-250L | BT50-SCA40-90L  |

JIS B6339/DIN6499 /CAT

BT-M 鎖牙式刀桿

Screw-in Endmill Holder



鎖牙刀頭另外購買  
Thread-locking cutter  
head not included;  
purchase separately

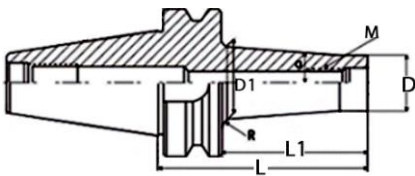


| M         | D  |
|-----------|----|
| M6xP1.0   | 12 |
| M8xP12.5  | 15 |
| M10xP1.5  | 19 |
| M12xP1.75 | 23 |
| M16xP2.0  | 31 |
| M20xP2.5  | 39 |
| M25xP3    | 24 |
| M35xP3.5  | 69 |

| BT30 TYPE    |  | BT40 TYPE    |              | BT50 TYPE    |              |
|--------------|--|--------------|--------------|--------------|--------------|
| BT30-M8-60   |  | BT40-M06-60L | BT40-M16-120 | BT50-M8-90   | BT50-M20-150 |
| BT30-M8-90   |  | BT40-M06-87L | BT40-M16-150 | BT50-M8-120  | BT50-M20-180 |
| BT30-M10-60  |  | BT40-M8-60   | BT40-M20-60  | BT50-M8-150  | BT50-M20-220 |
| BT30-M10-90  |  | BT40-M8-90   | BT40-M20-90  | BT50-M10-90  | BT50-M25-90  |
| BT30-M10-120 |  | BT40-M8-120  | BT40-M20-120 | BT50-M10-120 | BT50-M25-120 |
| BT30-M12-60  |  | BT40-M8-150  | BT40-M20-150 | BT50-M10-150 | BT50-M25-150 |
| BT30-M12-90  |  | BT40-M10-60  | BT40-M25-60  | BT50-M12-90  | BT50-M25-180 |
| BT30-M12-120 |  | BT40-M10-90  | BT40-M25-90  | BT50-M12-120 | BT50-M25-220 |
| BT30-M16-60  |  | BT40-M10-120 | BT40-M25-120 | BT50-M12-150 | BT50-M25-260 |
| BT30-M16-90  |  | BT40-M10-150 | BT40-M25-150 | BT50-M12-200 | BT50-M25-300 |
| BT30-M16-120 |  | BT40-M12-60  | BT40-M25-200 | BT50-M16-90  | BT50-M35-90  |
| BT30-M20-70  |  | BT40-M12-90  | BT40-M35-60  | BT50-M16-120 | BT50-M35-120 |
| BT30-M20-100 |  | BT40-M12-120 | BT40-M35-90  | BT50-M16-150 | BT50-M35-150 |
| BT30-M25-70  |  | BT40-M12-150 | BT40-M35-120 | BT50-M20-90  | BT50-M35-180 |
| BT30-M35-70  |  | BT40-M16-60  | BT40-M35-150 | BT50-M20-120 | BT50-M35-220 |
| BT30-M35-100 |  | BT40-M16-90  | BT40-M35-200 |              |              |

BT-MV 鎖牙式刀桿

Screw-in Endmill Holder



要錐度的要特別註明

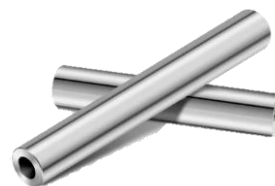


Please indicate the taper when ordering.

| TYPE             | TYPE            |
|------------------|-----------------|
| BT40-MV08-60L 錐度 | BT50-MV08-90錐度  |
| BT40-MV08-90L錐度  | BT50-MV08-110錐度 |
| BT40-MV08-110L錐度 | BT50-MV08-150錐度 |
| BT40-MV08-150錐度  | BT50-MV08-200錐度 |
| BT40-MV10-90錐度   | BT50-MV10-90錐度  |
| BT40-MV10-110錐度  | BT50-MV10-110錐度 |
| BT40-MV10-150錐度  | BT50-MV10-150錐度 |
| BT40-MV10-200錐度  | BT50-MV10-200錐度 |
| BT40-MV12-75錐度   | BT50-MV12-90錐度  |
| BT40-MV12-90錐度   | BT50-MV12-110錐度 |
| BT40-MV12-110錐度  | BT50-MV12-135錐度 |
| BT40-MV12-150錐度  | BT50-MV12-150錐度 |
| BT40-MV16-90錐度   | BT50-MV12-200錐度 |
| BT40-MV16-110錐度  | BT50-MV16-90錐度  |
| BT40-MV16-135錐度  | BT50-MV16-110錐度 |
|                  | BT50-MV16-135錐度 |
|                  | BT50-MV16-150錐度 |
|                  | BT50-MV16-200錐度 |



## GL鎢鋼鎖牙式延長桿



| GL 尺寸 |                      |    | GL 尺寸              |    |                     | GL 尺寸 |  |  |
|-------|----------------------|----|--------------------|----|---------------------|-------|--|--|
| 1     | GL-08-100L-M5*0.8    | 24 | GL-15-150L-M8*1.25 | 47 | GL-20-350L-M10*1.5  |       |  |  |
| 2     | GL-10-100L-M5*0.8    | 25 | GL-15-200L-M8*1.25 | 48 | GL-24-100L-M12*1.75 |       |  |  |
| 3     | GL-10-120L-M5*0.8    | 26 | GL-15-250L-M8*1.25 | 49 | GL-24-150L-M12*1.75 |       |  |  |
| 4     | GL-10-150L-M5*0.8    | 27 | GL-15-300L-M8*1.25 | 50 | GL-24-200L-M12*1.75 |       |  |  |
| 5     | GL-10-200L-M5*0.8    | 28 | GL-16-100L-M8*1.25 | 51 | GL-24-250L-M12*1.75 |       |  |  |
| 6     | GL-11-100L-M6*1.0    | 29 | GL-16-120L-M8*1.25 | 52 | GL-24-300L-M12*1.75 |       |  |  |
| 7     | GL-11-150L-M6*1.0    | 30 | GL-16-150L-M8*1.25 | 53 | GL-24-350L-M12*1.75 |       |  |  |
| 8     | GL-11-200L-M6*1.0    | 31 | GL-16-200L-M8*1.25 | 54 | GL-24-400L-M12*1.75 |       |  |  |
| 9     | GL-12-100L-M6*1.0    | 32 | GL-16-250L-M8*1.25 | 55 | GL-25-100L-M12*1.75 |       |  |  |
| 10    | GL-12-120L-M6*1.0    | 33 | GL-16-300L-M8*1.25 | 56 | GL-25-150L-M12*1.75 |       |  |  |
| 11    | GL-12-150L-M6*1.0    | 34 | GL-19-100L-M10*1.5 | 57 | GL-25-200L-M12*1.75 |       |  |  |
| 12    | GL-12-200L-M6*1.0    | 35 | GL-19-120L-M10*1.5 | 58 | GL-25-250L-M12*1.75 |       |  |  |
| 13    | GL-14-100L-M8*1.25   | 36 | GL-19-150L-M10*1.5 | 59 | GL-25-300L-M12*1.75 |       |  |  |
| 14    | GL-14-120L-M8*1.25   | 37 | GL-19-200L-M10*1.5 | 60 | GL-25-350L-M12*1.75 |       |  |  |
| 15    | GL-14-150L-M8*1.25   | 38 | GL-19-250L-M10*1.5 | 61 | GL-25-400L-M12*1.75 |       |  |  |
| 16    | GL-14-200L-M8*1.25   | 39 | GL-19-300L-M10*1.5 | 62 | GL-32-150L-M16*2.0  |       |  |  |
| 17    | GL-14-250L-M8*1.25   | 40 | GL-19-350L-M10*1.5 | 63 | GL-32-200L-M16*2.0  |       |  |  |
| 18    | GL-15.6-100L-M8*1.25 | 41 | GL-20-100L-M10*1.5 | 64 | GL-32-250L-M16*2.0  |       |  |  |
| 19    | GL-15.6-150L-M8*1.25 | 42 | GL-20-120L-M10*1.5 | 65 | GL-32-300L-M16*2.0  |       |  |  |
| 20    | GL-15.6-200L-M8*1.25 | 43 | GL-20-150L-M10*1.5 | 66 | GL-32-350L-M16*2.0  |       |  |  |
| 21    | GL-15.6-250L-M8*1.25 | 44 | GL-20-200L-M10*1.5 | 67 | GL-32-400L-M16*2.0  |       |  |  |
| 22    | GL-15-100L-M8*1.25   | 45 | GL-20-250L-M10*1.5 | 68 | GL-32-450L-M16*2.0  |       |  |  |
| 23    | GL-15-120L-M8*1.25   | 46 | GL-20-300L-M10*1.5 |    |                     |       |  |  |

## GFG2W 捨棄式刀頭

訂購請告知直徑/刀片

|                                                                                                                   |                                                                                                                   |                                                                                                                     |                                                                                                                 |                                                                                                                    |                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>BAP300/400<br/>APMT1</b><br> | <b>EXN03R<br/>LNMU0303</b><br> | <b>MFH03R<br/>LOGU030310</b><br> | <b>JDMT0702<br/>小徑</b><br>   | <b>XEKT19</b><br>              | <b>RNM 圓角刀片</b><br>0R/0.3R/<br>0.5R/1R/<br>1.5R/2R<br> |
| <b>TRS<br/>RDMT</b><br>         | <b>EMR<br/>RPM T</b><br>       | <b>戴杰款PPH<br/>BNM</b><br>        | <b>瓦爾特款WGR<br/>P3200</b><br> | <b>瓦爾特款T2139<br/>P3400</b><br> | <b>戴杰柳葉鎖牙頭<br/>SWB</b><br>                             |



## 鎢鋼抗震後拉式延長桿

Tungsten carbide anti-vibration rear-pull extension bar

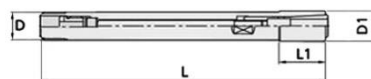


Fig:1

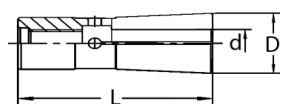


Fig:2



| TYPE                     | L   | A   | D  | D1   | Torque |
|--------------------------|-----|-----|----|------|--------|
| SDC4-08-C08-100L         | 100 |     | 8  | 8    | 3Nm    |
| SDC4L-08-C08-100L        | 100 |     |    |      |        |
| SDC4-10-C10-100L         | 100 |     | 10 | 10   |        |
| SDC4-10-C10-150L         | 150 |     | 10 | 10   |        |
| SDC4-10-C12-150L-DT60    | 150 | 60  | 12 | 10   |        |
| SDC4-10-C16-200L-DT100   | 200 | 100 | 16 | 10   |        |
| TYPE                     | L   | A   | D  | D1   | Torque |
| SDC6-12-C12-100L         | 100 |     | 12 | 12   | 5Nm    |
| SDC6L-12-C12-100L        | 100 |     | 12 | 12   |        |
| SDC6-12-C12-150L         | 150 |     | 12 | 12   |        |
| SDC6L-12-C12-150L        | 150 |     | 12 | 12   |        |
| SDC6-12.8-C16-150L-DT60  | 150 | 60  | 16 | 12.8 |        |
| SDC6-12.8-C16-200L-DT90  | 200 | 90  | 16 | 12.8 |        |
| SDC6-12.8-C20-250L-DT110 | 250 | 110 | 20 | 12.8 |        |
| TYPE                     | L   | A   | D  | D1   | Torque |
| DC8-C20-100L             | 100 | 20  | 20 | 20   | 5Nm    |
| DC8-C20-150L             | 150 |     |    |      |        |
| DC8-C20-200L             | 200 |     |    |      |        |
| DC8-C20-250L             | 250 |     |    |      |        |
| TYPE                     | L   | A   | D  | D1   | Torque |
| UC10-20-C20-150L         | 150 |     | 20 | 20   | 7Nm    |
| UC10-20-C20-200L         | 200 |     | 20 | 20   |        |
| UC10-23-C25-250L-DT120   | 250 | 120 | 25 | 23   |        |
| UC10-23-C25-300L-DT120   | 300 | 120 | 25 | 23   |        |

## SDC4 筒夾 Collet



## 訂購編號

## d/夾持範圍

## L

## D

## G

## kg

## 六角板手

SDC4

1 / 1.5 / 2 / 2.5  
3 / 3.5 / 4

31

7

M4\*0.5

0.01

M3

SDC4L

3  
4

35

7

M3\*0.5

0.01

M2.5

## SDC6 筒夾 Collet



## 訂購編號

## d/夾持範圍

## L

## D

## G

## kg

## 六角板手

SDC6

1 / 1.5 / 2 / 2.5  
3 / 3.5 / 3.175  
4 / 4.5 / 5 / 5.5 / 6

36

9.8

M5\*0.8

0.01

M4

SDC6L

3 / 3.5 / 3.175  
4 / 4.5 / 5 / 5.5 / 6

60

9.8

M5\*0.8

0.02

M4

## SDC8 筒夾 Collet



## 訂購編號

## d/夾持範圍

## L

## D

## G

## kg

## 六角板手

SDC8

1 / 1.5 / 2 / 3 /  
4 / 5 / 6 / 7 / 8 / 10

45

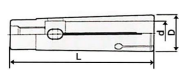
15

M6\*1

0.02

M5

## UC10 筒夾 Collet



## 訂購編號

## d/夾持範圍

## L

## D

## G

## kg

## 六角板手

UC10

3 / 4 / 5 / 6 / 8 / 10

56.5

15

M6\*1.0P

0.07

M5



後拉式延長桿

rear-pull extension bar



Fig:1

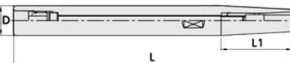


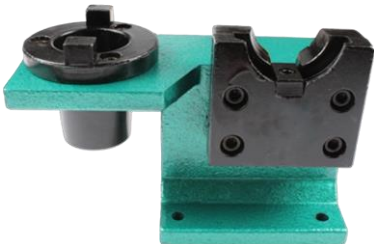
Fig:2

20CrMnTi 是一種常用的低碳合金滲碳鋼，它具備高強度、高韌性以及良好的加工性能，經過表面滲碳處理後能達到外硬內韌的效果。

| TYPE         | Capacity | D  | D1   | L   | L1  | Screw   | Torque |
|--------------|----------|----|------|-----|-----|---------|--------|
| DC04-C8-100  | 1-4      | 8  | 7.9  | 100 |     | M4x70   | 3Nm    |
| DC04-C8-150  |          |    | 7.9  | 150 |     | M4x120  |        |
| DC04-C10-100 |          | 10 | 9.7  | 100 |     | M4x70   | 3Nm    |
| DC04-C10-150 |          |    |      | 150 |     | M4x120  |        |
| DC06-C10-120 | 1-6      |    | 12   | 120 | 93  | M5x95   | 5Nm    |
| DC06-C10-150 |          |    |      | 150 | 28  | M5x125  |        |
| DC04-C12-120 | 1-4      | 12 | 10   | 120 | 52  | M4x70   | 3Nm    |
| DC06-C12-120 | 1-6      |    | 12   | 120 |     | M5x80   | 5Nm    |
| DC06-C12-150 |          |    |      | 150 |     | M5x110  |        |
| DC06-C12-200 |          |    |      | 200 |     | M5x160  |        |
| DC06-C16-150 | 1-6      | 16 | 14   | 150 | 66  | M5x100  |        |
| DC06-C16-200 |          |    |      | 200 | 106 | M5x150  |        |
| DC06-C16-250 |          |    |      | 250 | 55  | M5x200  |        |
| DC08-C16-150 | 2-10     | 20 | 19   | 150 | 58  | M6x90   | 7Nm    |
| DC06-C20-150 | 2-6      |    | 14   | 150 | 47  | M5x100  | 5Nm    |
| DC06-C20-200 |          |    |      | 200 | 63  | M5x150  |        |
| DC08-C20-150 | 2-10     |    | 19.2 | 150 | 79  | M6x90   | 7Nm    |
| DC08-C20-200 |          |    |      | 200 | 170 | M6x140  |        |
| DC08-C20-250 |          |    |      | 250 | 55  | M6x190  |        |
| DC08-C25-150 | 2-10     | 25 | 19.5 | 150 | 90  | M6x90   | 7Nm    |
| DC08-C25-200 |          |    |      | 200 | 141 | M6x140  |        |
| DC12-C32-200 | 3-12     | 32 | 31   | 200 | 58  | M10x120 | 15Nm   |
| DC12-C32-250 |          |    |      | 250 | 90  | M10x170 |        |
| DC12-C32-300 |          |    |      | 300 | 119 | M10x220 |        |

BT 鎖刀座

|          |
|----------|
| N2Y-BT30 |
| N2Y-BT40 |
| N2Y-BT50 |



軸承鎖刀座



Model No.

|             |
|-------------|
| 3N2Y-HSK32  |
| 3N2Y-HSK40  |
| 3N2Y-HSK50  |
| 3N2Y-HSK63  |
| 3N2Y-HSK100 |
| 3N2Y-ISO20  |
| 3N2Y-ISO25  |
| 3N2Y-ISO30  |
| 3N2Y-BT30   |
| 3N2Y-BT40   |



BT-LBK 鏜孔刀桿

Boring Holder



| TYPE | D  |
|------|----|
| LBK1 | 19 |
| LBK2 | 24 |
| LBK3 | 31 |
| LBK4 | 39 |
| LBK5 | 50 |
| LBK6 | 64 |



| BT30 TYPE     |
|---------------|
| BT30-LBK1-70L |
| BT30-LBK2-80L |
| BT30-LBK3-80L |
| BT30-LBK4-70L |
| BT30-LBK5-65L |
| BT30-LBK6-65L |

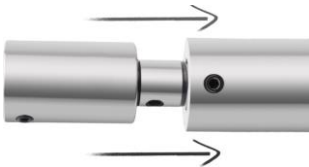
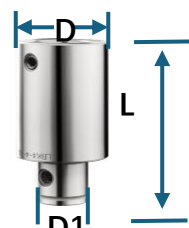
| BT40 TYPE                           |
|-------------------------------------|
| BT40-LBK1-70 /100 /130L             |
| BT40-LBK2-75 /100 /130 /165L        |
| BT40-LBK3-80 /100 /135/155 /175L    |
| BT40-LBK4-70 /100 /150 /170 /200L   |
| BT40-LBK5-60 / 100 / 150 /180 /250L |
| BT40-LBK6-60 / 100 / 150 /180 /250L |

| BT50 TYPE                                             |
|-------------------------------------------------------|
| BT50-LBK1-90 /115 /145 /175 /205L                     |
| BT50-LBK2-90 /115 /145 /175 /205L                     |
| BT50-LBK3-90 /125 /155 /185 /215L                     |
| BT50-LBK4-90 /115 /145 /175 /250 /300 /350L           |
| BT50-LBK5-90 /150 /180 /240 /270 /300 /350L           |
| BT50-LBK6-90 /150 /170 /230 /270 /300 /350 /400 /500L |

LBK等徑變徑加長延長桿

LBK same-diameter / step-down extension bar

| 尺寸     | D  | D1 |
|--------|----|----|
| LBK1-1 | 19 | 11 |
| LBK2-2 | 24 | 14 |
| LBK3-3 | 31 | 18 |
| LBK4-4 | 39 | 22 |
| LBK5-5 | 50 | 28 |
| LBK6-6 | 64 | 36 |

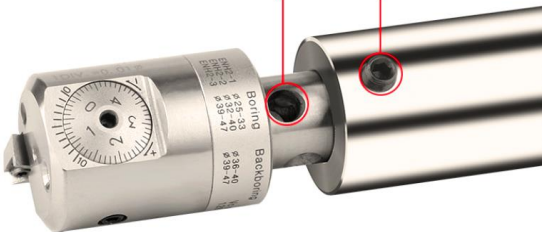


| TYPE        | TYPE        | TYPE        |
|-------------|-------------|-------------|
| LBK1-1-30L  | LBK3-3-30L  | LBK5-5-45L  |
| LBK1-1-45L  | LBK3-3-45L  | LBK5-5-60L  |
| LBK1-1-60L  | LBK3-3-60L  | LBK5-5-80L  |
| LBK1-1-80L  | LBK3-3-80L  | LBK5-5-100L |
| LBK1-1-100L | LBK3-3-100L | LBK5-5-120L |
| LBK1-1-120L | LBK3-3-120L | LBK5-5-150L |
| LBK1-1-150L | LBK3-3-150L | LBK5-5-180L |
| LBK1-1-180L | LBK3-3-180L | LBK6-6-60L  |
| LBK2-2-30L  | LBK4-4-30L  | LBK6-6-80L  |
| LBK2-2-45L  | LBK4-4-45L  | LBK6-6-100L |
| LBK2-2-60L  | LBK4-4-60L  | LBK6-6-120L |
| LBK2-2-80L  | LBK4-4-80L  | LBK6-6-150L |
| LBK2-2-100L | LBK4-4-100L | LBK6-6-180L |
| LBK2-2-120L | LBK4-4-120L |             |
| LBK2-2-150L | LBK4-4-150L |             |
| LBK2-2-180L | LBK4-4-180L |             |

JLBK鎢鋼過中心 延長桿

Tungsten steel center extension rod

孔位對齊,擰緊螺絲即可



| 代號     | JLBK TPYE      |
|--------|----------------|
| JLBK01 | C19-JLBK1-150L |
| JLBK02 | C19-JLBK1-200L |
| JLBK03 | C19-JLBK1-250L |
| JLBK04 | C19-JLBK1-300L |
| JLBK05 | C24-JLBK2-150L |
| JLBK06 | C24-LBK2-200L  |
| JLBK07 | C24-LBK2-250L  |
| JLBK08 | C24-LBK2-300L  |
| JLBK09 | C32-LBK3-250L  |
| JLBK10 | C32-LBK3-300L  |
| JLBK11 | C32-LBK3-350L  |
| JLBK12 | C32-LBK3-400L  |



## ATC 三點組合

ATC three-point combination



### 【三點組合校刀器】

|             |           |
|-------------|-----------|
| ATC-ISO20   | ATC-CAT30 |
| ATC-ISO25   | ATC-CAT40 |
| ATC-BT30    | ATC-CAT50 |
| ATC-BT40    | ATC-SK30  |
| ATC-BT50    | ATC-SK40  |
| ATC-HSK32E  | ATC-SK50  |
| ATC-HSK32A  | ATC-JI40  |
| ATC-HSK40E  | ATC-JI50  |
| ATC-HSK50A  |           |
| ATC-HSK50E  |           |
| ATC-HSK63A  |           |
| ATC-HSK100A |           |

## 55HG主軸測式棒 spindle test bar



| 型號<br>Model | 真圓度<br>同心度   | 毛重KG<br>Gross weight |
|-------------|--------------|----------------------|
| ISO-20      | $\leq 0.003$ |                      |
| ISO-25      | $\leq 0.003$ |                      |
| BT30-250L   | $\leq 0.003$ | 3.5                  |
| BT40-300L   | $\leq 0.003$ | 4                    |
| BT50-300L   | $\leq 0.003$ | 8KG                  |
| BBT30-250L  | $\leq 0.003$ | 3.5                  |
| BBT40-300L  | $\leq 0.003$ | 4                    |



| 型號<br>Model | 真圓度/同心度      | 毛重KG<br>Gross weight |
|-------------|--------------|----------------------|
| HSK63A-300L | $\leq 0.003$ | 4                    |
| HSK100A300L | $\leq 0.003$ | 8KG                  |

## 主軸清潔棒 Spindle cleaning stick

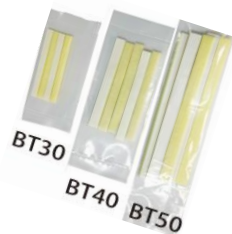
HSK40  
HSK50  
HSK63  
HSK100



BT30  
BT40  
BT50

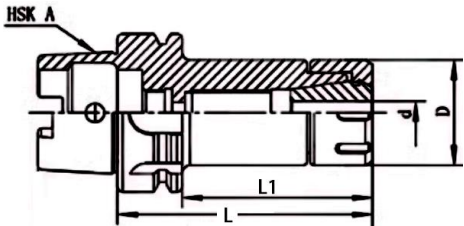


替換帶





HSK ER TOOLHOLDER

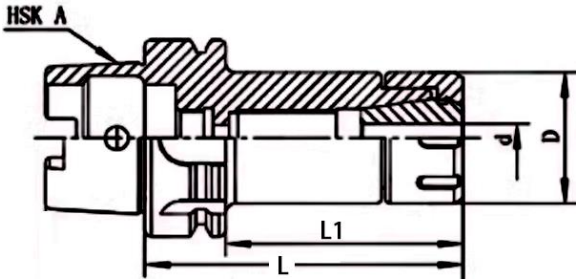


| Model No.        | L   | L1 |
|------------------|-----|----|
| HSK50A-ER16-100L | 100 | 74 |
| HSK50A-ER20-100L | 100 | 74 |
| HSK50A-ER25-100L | 100 | 74 |
| HSK50A-ER32-100L | 100 | 74 |
| HSK63A-ER11-100L | 100 | 74 |
| HSK63A-ER16-100L | 100 | 74 |
| HSK63A-ER20-100L | 100 | 74 |
| HSK63A-ER25-100L | 100 | 74 |

| Model No.         | L   | L1 |
|-------------------|-----|----|
| HSK63A-ER32-100L  | 100 | 74 |
| HSK63A-ER40-100L  | 100 | 74 |
| HSK100A-ER16-100L | 80  | 51 |
| HSK100A-ER20-100L | 100 | 71 |
| HSK100A-ER25-100L | 100 | 71 |
| HSK100A-ER32-100L | 100 | 71 |
| HSK100A-ER40-100L | 100 | 71 |
|                   |     |    |

HSK GER TOOLHOLDER

尺寸眾多請來電洽詢



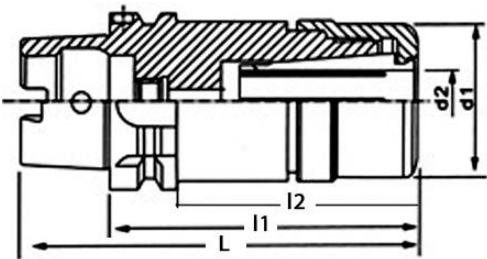
軸承扳手  
第

| Model No.        | L   | L1 | D  |
|------------------|-----|----|----|
| HSK40E-GER16-60  | 60  | 40 | 27 |
| HSK40E-GER20-60  | 60  | 40 | 35 |
| HSK40E-GER20-80  | 80  | 60 | 35 |
| HSK50E-GER16-70  | 70  | 44 | 27 |
| HSK50E-GER20-70  | 70  | 44 | 35 |
| HSK50E-GER25-70  | 70  | 44 | 40 |
| HSK50E-GER32-70  | 70  | 44 | 50 |
| HSK50E-GER16-100 | 100 | 74 | 27 |
| HSK50E-GER20-100 | 100 | 74 | 35 |
| HSK50E-GER25-100 | 100 | 74 | 40 |
| HSK50E-GER32-100 | 100 | 74 | 50 |
| HSK63A-GER16-80  | 80  | 54 | 27 |

| Model No.         | L   | L1  | D  |
|-------------------|-----|-----|----|
| HSK63A-GER16-100  | 100 | 74  | 27 |
| HSK63A-GER20-80   | 80  | 54  | 35 |
| HSK63A-GER20-100  | 100 | 74  | 35 |
| HSK63A-GER25-80   | 80  | 54  | 40 |
| HSK63A-GER25-100  | 100 | 74  | 40 |
| HSK63A-GER32-80   | 80  | 54  | 50 |
| HSK63A-GER32-100  | 100 | 74  | 50 |
| HSK100A-ER16-100L | 80  | 51  | 27 |
| HSK100A-ER20-100L | 100 | 100 | 35 |
| HSK100A-ER25-100L | 100 | 100 | 40 |
| HSK100A-ER32-100L | 100 | 100 | 50 |
|                   |     |     |    |



HSK SK TOOLHOLDER



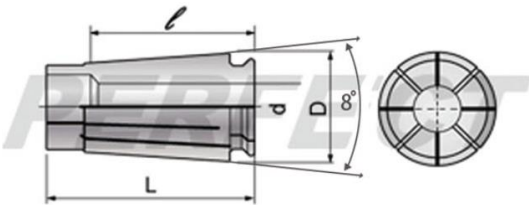
| Model No.        | l1  | l2  | D1 |
|------------------|-----|-----|----|
| HSK40E-SK10-60   | 60  | 40  | 27 |
| HSK40E-SK10-70   | 70  | 50  | 27 |
| HSK40E-SK10-70   | 70  | 50  | 27 |
| HSK50E-SK06-70   | 70  | 44  | 19 |
| HSK50E-SK10-70   | 70  | 44  | 27 |
| HSK50E-SK16-80   | 80  | 54  | 40 |
| HSK50A-SK10-80   | 80  | 54  | 27 |
| HSK50A-SK10-120  | 120 | 94  | 27 |
| HSK50A-SK16-80   | 80  | 54  | 40 |
| HSK50A-SK16-120  | 120 | 94  | 40 |
| HSK63A-SK06-70L  | 70  | 44  | 19 |
| HSK63A-SK06-100L | 100 | 74  | 19 |
| HSK63A-SK06-130L | 130 | 104 | 19 |
| HSK63A-SK10-70L  | 70  | 44  | 27 |
| HSK63A-SK10-100L | 100 | 74  | 27 |
| HSK63A-SK10-130L | 130 | 104 | 27 |
| HSK63A-SK10-160L | 160 | 134 | 27 |

| Model No.         | l1  | l2  | D1 |
|-------------------|-----|-----|----|
| HSK63A-SK16-70L   | 70  | 44  | 40 |
| HSK63A-SK16-100L  | 100 | 74  | 40 |
| HSK63A-SK16-130L  | 130 | 104 | 40 |
| HSK63A-SK16-160L  | 160 | 134 | 40 |
| HSK63A-SK20-70L   | 70  | 44  | 48 |
| HSK63A-SK20-100L  | 100 | 74  | 48 |
| HSK63A-SK20-130L  | 130 | 104 | 48 |
| HSK63A-SK20-160L  | 160 | 134 | 48 |
| HSK50A-SK10-80L   | 80  | 54  | 27 |
| HSK100A-SK10-100L | 100 | 71  | 27 |
| HSK100A-SK10-130L | 130 | 101 | 27 |
| HSK100A-SK10-160L | 160 | 131 | 27 |
| HSK100A-SK16-100L | 100 | 71  | 40 |
| HSK100A-SK16-130L | 130 | 101 | 40 |
| HSK100A-SK16-160L | 160 | 131 | 40 |
| HSK100A-SK16-200L | 200 | 171 | 40 |
| HSK100A-SK20-100L | 100 | 71  | 48 |



軸承扳手  
第 36 頁

SK Collet



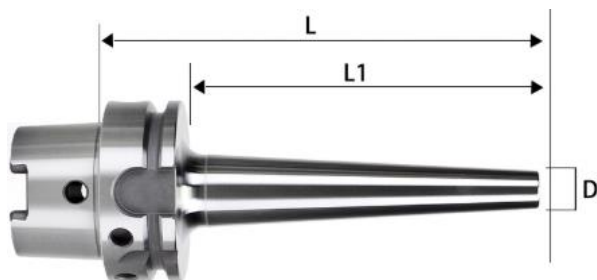
Features:

- Made of special elastic steel: 65Mn
- Hardness: HRC44-48
- AA0.008 / AAA0.005 / AAAA0.003

| 尺寸    | d                                                                           | D    | L    | Weight(kg) |
|-------|-----------------------------------------------------------------------------|------|------|------------|
| SK06- | 1/2/2.5/3/3.175/3.5/4/4.5/5/5.5/6                                           | 10.4 | 25.0 | 0.01       |
| SK10- | 1/2/2.5/3/3.175/3.5/4/4.5/5/5.5/6<br>7/7.5/8/8.5/9/9.5/10                   | 15.6 | 30.0 | 0.02       |
| SK16- | 1/2/2.5/3/3.175/3.5/4/4.5/5/5.5/6<br>7/7.5/8/8.5/9/9.5/10/11/12/13/14/15/16 | 24.5 | 45.0 | 0.08       |
| SK20- | 6/8/10/12/16/18/20                                                          | 29.1 | 50.5 | 0.14       |



## HSK DC HIGH TOOLHOLDER



| Model No.        | L   | L1 |
|------------------|-----|----|
| HSK32E-DC06-60   | 60  | 40 |
| HSK32E-DC06-80   | 80  | 60 |
| HSK40E-DC06-60   | 60  | 40 |
| HSK40E-DC06-80   | 80  | 60 |
| HSK50E-DC06-80   | 80  | 54 |
| HSK50E-DC08-80   | 80  | 54 |
| HSK50E-DC06-110  | 110 | 84 |
| HSK50E-DC08-110  | 80  | 54 |
| HSK40A-DC06-80   | 80  | 60 |
| HSK40A-DC06-110  | 110 | 90 |
| HSK50A-DC06-80   | 80  | 54 |
| HSK50A-DC04-90L  | 90  | 64 |
| HSK50A-DC04-120L | 120 | 94 |
| HSK50A-DC06-110  | 110 | 84 |
| HSK50A-DC08-80   | 80  | 54 |
| HSK50A-DC08-110  | 110 | 84 |
| HSK63A-DC06-100  | 100 | 74 |
| HSK63A-DC06-120  | 120 | 94 |

| Model No.         | L   | L1  |
|-------------------|-----|-----|
| HSK63A-DC06-150   | 150 | 124 |
| HSK63A-DC06-200   | 200 | 174 |
| HSK63A-DC08-100   | 100 | 74  |
| HSK63A-DC08-120   | 120 | 94  |
| HSK63A-DC08-150   | 150 | 124 |
| HSK63A-DC08-200   | 200 | 174 |
| HSK63A-DC12-100   | 100 | 74  |
| HSK63A-DC12-120   | 120 | 94  |
| HSK63A-DC12-150   | 150 | 124 |
| HSK100A-DC06-150L | 150 | 121 |
| HSK100A-DC06-200L | 200 | 171 |
| HSK100A-DC08-120L | 120 | 91  |
| HSK100A-DC08-150L | 150 | 121 |
| HSK100A-DC08-200L | 200 | 171 |
| HSK100A-DC12-120L | 120 | 91  |
| HSK100A-DC12-150L | 150 | 121 |
| HSK100A-DC12-200L | 200 | 171 |

## DC COLLET

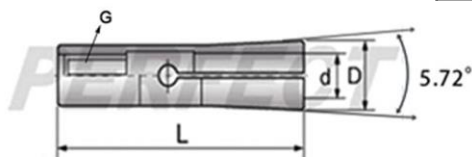
Features:

- Made of special elastic steel: 65Mn
- Hardness: HRC44-48

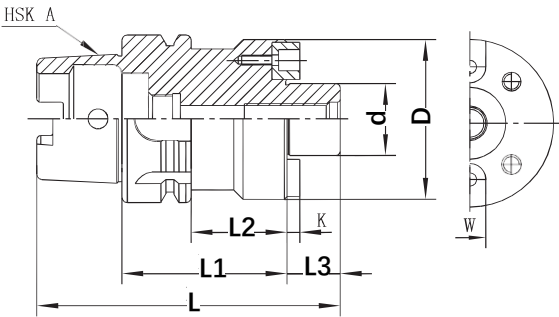


| 筒夾尺寸 | L  | D   | G        | kg   | 使用六角板手 |
|------|----|-----|----------|------|--------|
| DC6  | 36 | 9.6 | M5*0.8P  | 0.01 | M4     |
| DC8  | 45 | 15  | M6*1.0P  | 0.02 | M5     |
| DC12 | 60 | 22  | M10*1.5P | 0.07 | M8     |

| DC6       | DC8       | DC12       |
|-----------|-----------|------------|
| DC6-2     | DC8-3     | DC12-3     |
| DC6-3     | DC8-3.175 | DC12-3.175 |
| DC6-3.175 | DC8-3.5   | DC12-3.5   |
| DC6-3.5   | DC8-4     | DC12-4     |
| DC6-4     | DC8-4.5   | DC12-4.5   |
| DC6-4.5   | DC8-5     | DC12-5     |
| DC6-5     | DC8-5.5   | DC12-5.5   |
| DC6-5.5   | DC8-6     | DC12-6     |
| DC6-6     | DC8-6.5   | DC12-6.5   |
|           | DC8-8     | DC12-8     |
|           | DC8-10    | DC12-10    |
|           |           | DC12-12    |

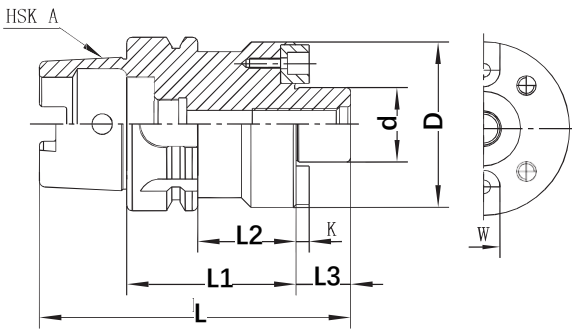


FMA FACE MILL CUTTER HOLDER



| Model No. |              | L   | L1  | L2 | L3 | d     | D  | K    | w     |
|-----------|--------------|-----|-----|----|----|-------|----|------|-------|
| HSK63A    | FMA25.4-50   | 102 | 50  | 24 | 20 | 25.4  | 50 | 4.52 | 9.52  |
|           | FMA25.4-100  | 152 | 100 | 74 | 20 | 25.4  | 50 | 4.52 | 9.52  |
|           | FMA31.75-60  | 114 | 60  | 34 | 22 | 31.75 | 60 | 6.7  | 12.7  |
|           | FMA31.75-100 | 154 | 100 | 74 | 22 | 31.75 | 60 | 6.7  | 12.7  |
|           | FMA38.1-60   | 117 | 60  | 34 | 25 | 38.1  | 75 | 8.87 | 15.87 |
| HSK100A   | FMA25.4-60   | 130 | 60  | 31 | 20 | 25.4  | 50 | 4.52 | 9.52  |
|           | FMA25.4-100  | 170 | 100 | 71 | 20 | 25.4  | 50 | 4.52 | 9.52  |
|           | FMA31.75-60  | 132 | 60  | 31 | 22 | 31.75 | 60 | 5.8  | 12.7  |
|           | FMA31.75-100 | 172 | 100 | 71 | 22 | 31.75 | 60 | 5.8  | 12.7  |
|           | FMA38.1-60   | 135 | 60  | 31 | 25 | 38.1  | 80 | 8.3  | 15.87 |

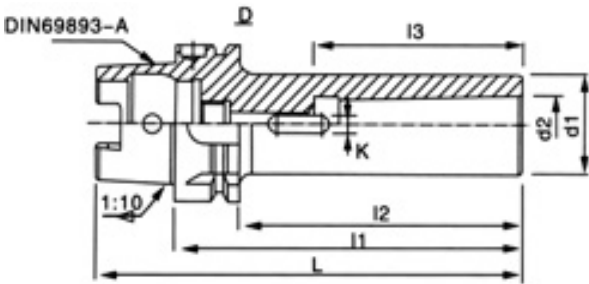
FMB FACE MILL CUTTER HOLDER



| Model No. |            | L1  | L2 | L3   | d  | D  | K2 |
|-----------|------------|-----|----|------|----|----|----|
| HSK50A    | -FMB22-60  | 60  | 18 | 14   | 22 | 40 | 10 |
|           | -FMB27-60  |     | 20 | 16   | 27 | 50 | 12 |
| HSK63A    | -FMB22-100 | 100 | 18 | 14   | 22 | 40 | 10 |
|           | -FMB22-150 | 150 |    |      |    |    |    |
|           | -FMB22-200 | 200 |    |      |    |    |    |
|           | -FMB27-100 | 100 | 20 | 20.5 | 27 | 52 | 12 |
|           | -FMB32-100 |     | 20 |      | 32 | 58 |    |
|           | -FMB40-100 |     | 25 |      | 40 |    | 14 |
| HSK100A   | -FMB22-100 | 100 | 18 | 14   | 22 | 48 | 10 |
|           | -FMB22-150 | 150 |    |      |    |    |    |
|           | -FMB22-200 | 200 |    |      |    |    |    |
|           | -FMB27-100 | 100 | 20 | 16   | 27 | 60 | 12 |
|           | -FMB32-100 |     | 22 |      | 32 | 73 | 14 |
|           | -FMB40-100 |     | 25 |      | 40 | 85 | 16 |

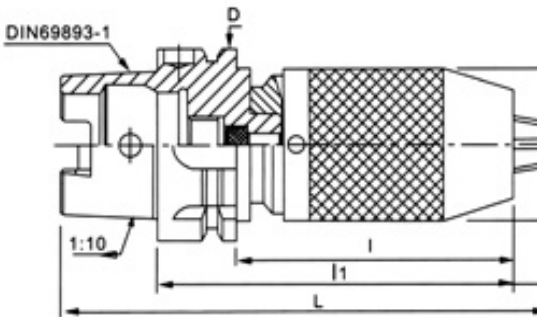


MTA/MTB MORSE TAPER HOLDER



| Model No. |           | L   | l1  | l2  | l3  | d1 | d2     | K1  |
|-----------|-----------|-----|-----|-----|-----|----|--------|-----|
| HSK50A    | -MTA1-100 | 125 | 100 | 74  | 56  | 25 | 12.065 | 5.5 |
|           | -MTA2-120 | 145 | 120 | 94  | 67  | 32 | 17.780 | 6.5 |
|           | -MTA3-140 | 165 | 140 | 114 | 84  | 40 | 23.825 | 8   |
| HSK63A    | -MTA1-100 | 132 | 100 | 74  | 56  | 25 | 12.065 | 5.5 |
|           | -MTA2-120 | 152 | 120 | 94  | 67  | 32 | 17.780 | 6.5 |
|           | -MTA3-140 | 172 | 140 | 114 | 84  | 40 | 23.825 | 8   |
|           | -MTA4-160 | 192 | 160 | 134 | 107 | 48 | 31.267 | 12  |
| HSK100A   | -MTA1-110 | 160 | 110 | 81  | 56  | 25 | 12.065 | 5.5 |
|           | -MTA2-120 | 170 | 120 | 91  | 67  | 32 | 17.780 | 6.5 |
|           | -MTA3-150 | 200 | 150 | 121 | 84  | 40 | 23.825 | 8   |
|           | -MTA4-170 | 220 | 170 | 141 | 107 | 48 | 31.267 | 12  |
|           | -MTA5-200 | 250 | 200 | 171 | 133 | 63 | 44.399 | 16  |

APU DRILL CHUCK ADAPTER BTNO

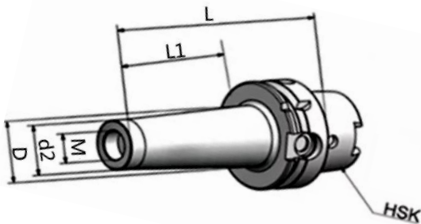


| Model No. |            | L   | l1 | l2 | D   | d1 | d2 |
|-----------|------------|-----|----|----|-----|----|----|
| HSK50A    | -APU13-110 | 147 | 84 | 55 | 50  | 50 | 5  |
| HSK63A    | -APU13-110 | 154 |    |    | 63  |    | 10 |
| HSK100A   | -APU13-120 | 182 | 91 | 75 | 100 |    | 13 |



M SMALL MILLING HEAD HOLDER

鎖牙刀頭參考22頁



| Model No.      | M   | d2 | L1  | L   | D    |
|----------------|-----|----|-----|-----|------|
| HSK63A-M8-60   | M8  | 15 | 34  | 60  | 18   |
| HSK63A-M8-90   | M8  | 15 | 64  | 90  | 23   |
| HSK63A-M8-110  | M8  | 15 | 84  | 110 | 26.5 |
| HSK63A-M8-150  | M8  | 15 | 124 | 150 | 33.5 |
| HSK63A-M8-200  | M8  | 15 | 174 | 200 | 42.5 |
| HSK63A-M10-60  | M10 | 19 | 34  | 60  | 21   |
| HSK63A-M10-90  | M10 | 19 | 64  | 90  | 25   |
| HSK63A-M10-110 | M10 | 19 | 84  | 110 | 28   |
| HSK63A-M10-150 | M10 | 19 | 124 | 150 | 33.5 |
| HSK63A-M10-200 | M10 | 19 | 174 | 200 | 40.5 |
| HSK63A-M12-60  | M12 | 24 | 34  | 60  | 26   |
| HSK63A-M12-90  | M12 | 24 | 894 | 920 | 30   |
| HSK63A-M12-110 | M12 | 24 | 84  | 110 | 33   |
| HSK63A-M12-150 | M12 | 24 | 124 | 150 | 38.5 |
| HSK63A-M12-200 | M12 | 24 | 174 | 200 | 45.5 |
| HSK63A-M16-60  | M16 | 29 | 34  | 60  | 30   |
| HSK63A-M16-90  | M16 | 29 | 64  | 90  | 35   |
| HSK63A-M16-110 | M16 | 29 | 84  | 110 | 38   |
| HSK63A-M16-135 | M16 | 29 | 109 | 135 | 41   |
| HSK63A-M16-150 | M16 | 29 | 124 | 150 | 43.5 |

| Model No.       | M   | d2 | L1  | L   | D    |
|-----------------|-----|----|-----|-----|------|
| HSK100A-M8-90   | M8  | 15 | 61  | 90  | 23   |
| HSK100A-M8-110  | M8  | 15 | 81  | 110 | 26.5 |
| HSK100A-M8-150  | M8  | 15 | 121 | 150 | 33.5 |
| HSK100A-M8-200  | M8  | 15 | 171 | 200 | 43.5 |
| HSK100A-M10-90  | M10 | 19 | 61  | 90  | 25   |
| HSK100A-M10-110 | M10 | 19 | 81  | 110 | 28   |
| HSK100A-M10-150 | M10 | 19 | 121 | 150 | 33.5 |
| HSK100A-M10-200 | M10 | 19 | 171 | 200 | 48   |
| HSK100A-M12-90  | M12 | 24 | 61  | 90  | 30   |
| HSK100A-M12-110 | M12 | 24 | 81  | 110 | 33   |
| HSK100A-M12-150 | M12 | 24 | 121 | 150 | 36.5 |
| HSK100A-M12-200 | M12 | 24 | 171 | 200 | 46   |
| HSK100A-M16-90  | M16 | 29 | 61  | 90  | 35   |
| HSK100A-M16-110 | M16 | 29 | 81  | 110 | 38   |
| HSK100A-M16-150 | M16 | 29 | 121 | 150 | 43.5 |
| HSK100A-M16-200 | M16 | 29 | 171 | 200 | 50.5 |
|                 |     |    |     |     |      |
|                 |     |    |     |     |      |
|                 |     |    |     |     |      |
|                 |     |    |     |     |      |

DCM MILLING CHUCK/COLLECT



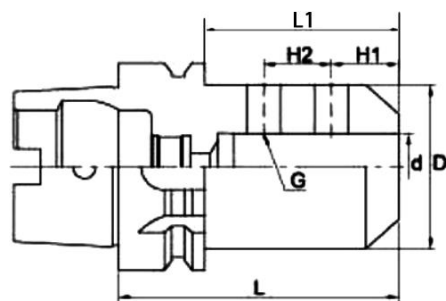
| Model No         |
|------------------|
| HSK63A-DCM25-110 |
| HSK63A-DCM32-105 |

| 冷卻液導管       | M       | D  |
|-------------|---------|----|
| 3SSE-HSK32  | M10*1   | 6  |
| 3SSE-HSK40  | M12*1   | 8  |
| 3SSE-HSK50  | M16*1   | 10 |
| 3SSE-HSK63  | M18*1   | 12 |
| 3SSE-HSK80  | M20*1.5 | 14 |
| 3SSE-HSK100 | M24*1.5 | 16 |
| 冷卻液導管帶過濾網   | M       | D  |
| 3SSE-HSK63A | M18*1   | 12 |
| 3SSE-HSK80A | M20*1.5 | 14 |
| 3SSE-HSK100 | M24*1.5 | 16 |

| 冷卻液導管扳手       |
|---------------|
| 3SSE1G-HSK32  |
| 3SSE1G-HSK40  |
| 3SSE1G-HSK50  |
| 3SSE1G-HSK63  |
| 3SSE1G-HSK80  |
| 3SSE1G-HSK100 |



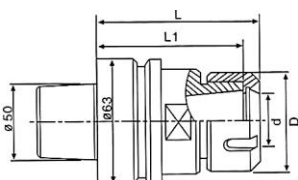
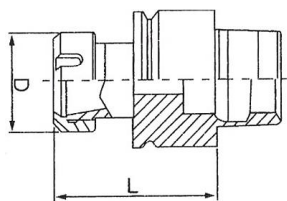
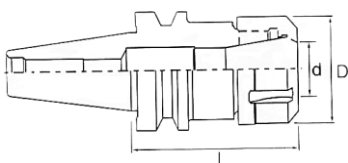
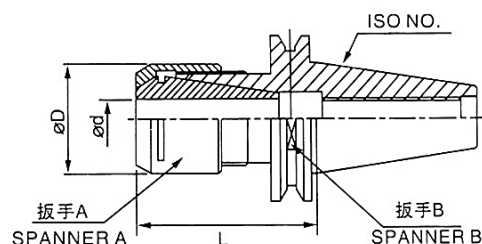
## HSK SLA SIDE LOCK HOLDER



| Model No.         | L1 | D  | G   | Model No.         | L1  | D  | G   | Model No.          | L1  | D  | G   |
|-------------------|----|----|-----|-------------------|-----|----|-----|--------------------|-----|----|-----|
| HSK32A-SLN6-60L   | 40 | 25 | M6  | HSK63A-SLN6-65L   | 39  | 25 | M6  | HSK100A-SLN6-80L   | 51  | 48 | M6  |
| HSK32A-SLN8-60L   | 40 | 26 | M8  | HSK63A-SLN6-100L  | 74  | 25 | M6  | HSK100A-SLN6-160L  | 131 | 48 | M6  |
| HSK32A-SLN10-65L  | 45 | 32 | M10 | HSK63A-SLN6-120L  | 94  | 25 | M6  | HSK100A-SLN8-80L   | 51  | 48 | M8  |
| HSK32A-SLN12-70L  | 50 | 36 | M10 | HSK63A-SLN6-160L  | 134 | 25 | M6  | HSK100A-SLN8-160L  | 131 | 48 | M8  |
| HSK32A-SLN14-75L  | 55 | 38 | M10 | HSK63A-SLN8-100L  | 74  | 28 | M8  | HSK100A-SLN10-80L  | 51  | 48 | M10 |
| HSK32A-SLN16-75L  | 55 | 42 | M10 | HSK63A-SLN8-160L  | 134 | 29 | M8  | HSK100A-SLN10-160L | 131 | 48 | M10 |
| HSK32A-SLN20-90L  | 70 | 52 | M12 | HSK63A-SLN10-100L | 74  | 35 | M10 | HSK100A-SLN12-80L  | 51  | 48 | M10 |
| Model No.         | L1 | D  | G   | HSK63A-SLN10-160L | 134 | 35 | M10 | HSK100A-SLN12-160L | 131 | 48 | M10 |
| HSK40A-SLN6-60L   | 40 | 25 | M6  | HSK63A-SLN12-100L | 74  | 40 | M10 | HSK100A-SLN14-80L  | 51  | 48 | M10 |
| HSK40A-SLN8-60L   | 40 | 28 | M8  | HSK63A-SLN12-160L | 134 | 40 | M10 | HSK100A-SLN14-160L | 131 | 48 | M10 |
| HSK40A-SLN10-60L  | 40 | 34 | M10 | HSK63A-SLN14-100L | 74  | 46 | M10 | HSK100A-SLN16-100L | 71  | 48 | M10 |
| HSK40A-SLN12-70L  | 50 | 36 | M10 | HSK63A-SLN14-160L | 134 | 46 | M10 | HSK100A-SLN16-160L | 131 | 40 | M10 |
| HSK40A-SLN14-75L  | 55 | 38 | M10 | HSK63A-SLN16-100L | 74  | 48 | M10 | HSK100A-SLN16-200L | 171 | 40 | M10 |
| HSK40A-SLN16-75L  | 55 | 40 | M10 | HSK63A-SLN16-160L | 134 | 48 | M10 | HSK100A-SLN18-100L | 71  | 50 | M10 |
| HSK40A-SLN18-85L  | 65 | 42 | M12 | HSK63A-SLN16-200L | 174 | 48 | M10 | HSK100A-SLN18-160L | 131 | 50 | M10 |
| HSK40A-SLN20-85L  | 65 | 52 | M12 | HSK63A-SLN18-100L | 74  | 50 | M12 | HSK100A-SLN20-100L | 71  | 52 | M12 |
| HSK40A-SLN25-95L  | 75 | 52 | M12 | HSK63A-SLN18-160L | 134 | 50 | M12 | HSK100A-SLN20-160L | 131 | 52 | M12 |
| HSK40A-SLN32-105L | 85 | 63 | M16 | HSK63A-SLN20-100L | 74  | 52 | M12 | HSK100A-SLN20-200L | 171 | 52 | M12 |
| Model No.         | L1 | D  | G   | HSK63A-SLN20-160L | 134 | 52 | M12 | HSK100A-SLN25-110L | 81  | 65 | M12 |
| HSK50A-SLN6-65L   | 39 | 25 | M6  | HSK63A-SLN20-200L | 174 | 52 | M12 | HSK100A-SLN25-160L | 131 | 65 | M12 |
| HSK50A-SLN8-65L   | 39 | 28 | M8  | HSK63A-SLN25-110L | 84  | 65 | M12 | HSK100A-SLN25-200L | 171 | 65 | M12 |
| HSK50A-SLN10-65L  | 39 | 35 | M10 | HSK63A-SLN25-160L | 134 | 66 | M12 | HSK100A-SLN32-110L | 171 | 72 | M16 |
| HSK50A-SLN12-80L  | 54 | 40 | M10 | HSK63A-SLN25-200L | 174 | 67 | M12 | HSK100A-SLN32-160L | 131 | 72 | M16 |
| HSK50A-SLN14-80L  | 54 | 40 | M10 | HSK63A-SLN32-110L | 84  | 72 | M16 | HSK100A-SLN32-200L | 171 | 72 | M16 |
| HSK50A-SLN16-80L  | 54 | 40 | M10 | HSK63A-SLN32-160L | 134 | 73 | M16 | HSK100A-SLN40-120L | 91  | 80 | M20 |
| HSK50A-SLN18-80L  | 54 | 42 | M12 | HSK63A-SLN40-125L | 99  | 80 | M16 | HSK100A-SLN42-120L | 91  | 80 | M20 |
| HSK50A-SLN20-80L  | 54 | 52 | M12 | HSK63A-SLN40-200L | 174 | 81 | M16 |                    |     |    |     |
| HSK50A-SLN20-90L  | 64 | 52 | M12 |                   |     |    |     |                    |     |    |     |
| HSK50A-SLN25-110L | 84 | 52 | M12 |                   |     |    |     |                    |     |    |     |
| HSK50A-SLN32-110L | 84 | 63 | M16 |                   |     |    |     |                    |     |    |     |



## 雕刻機高速刀桿系列



## 雕刻機高速 ISO 刀桿

同心度:  $\leq 0.002\text{mm}$  動平衡: G2.0 40000rpm 材質: 不鏽鋼

| Model No.        | ød   | D  | L  |
|------------------|------|----|----|
| T10-ER11-023MS   | 1~7  | 19 | 23 |
| ISO10-ER11-023MS | 1~7  | 19 | 23 |
| ISO15-ER16-035MS | 1~10 | 22 | 35 |
| ISO20-ER16-035MS | 1~10 | 22 | 35 |
| ISO20-ER20-035MS | 1~13 | 28 | 35 |
| ISO25-ER16-035MS | 1~10 | 22 | 35 |
| ISO25-ER20-035MS | 1~13 | 28 | 35 |
| ISO30-ER25-042UM | 1~16 | 42 | 42 |
| ISO30-ER32-042UM | 1~20 | 50 | 42 |
| ISO30-ER32-060UM | 1~20 | 50 | 60 |
| ISO30-ER40-050UM | 3~26 | 63 | 50 |
| ISO20-SK10-035   | 2~10 | 27 | 35 |
| ISO25-SK10-035   | 2~10 | 27 | 35 |
| ISO30-SK16-060   | 2~16 | 40 | 60 |

## 雕刻機高速 NBT 刀桿

同心度:  $\leq 0.002\text{mm}$  動平衡: G2.0 40000rpm 材質: 不鏽鋼

| Model No.       | ød     | D  | L  |
|-----------------|--------|----|----|
| NBT30-ER16-60A  | 0.5~10 | 28 | 60 |
| NBT30-ER20-60A  | 1~13   | 34 | 60 |
| NBT30-ER20-60MS | 1~13   | 28 | 60 |
| NBT30-ER25-60UM | 1~16   | 42 | 60 |
| NBT30-ER25-60MS | 1~16   | 40 | 60 |
| NBT30-ER32-60UM | 2~20   | 50 | 60 |

## 雕刻機高速 HSK-E 刀桿

動平衡: G2.5 24000rpm

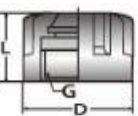
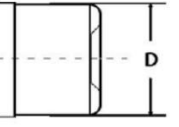
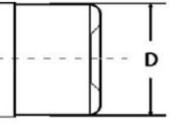
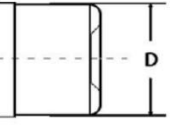
| Model          | d      | D  | L  |
|----------------|--------|----|----|
| HSK25E-ER16-43 | 0.5~10 | 28 | 40 |
| HSK32E-ER16-60 | 0.5~10 | 28 | 40 |
| HSK32E-ER20-60 | 1~13   | 34 | 50 |
| HSK32E-ER25-60 | 1~16   | 42 | 60 |
| HSK40E-ER16-80 | 0.5~10 | 28 | 60 |
| HSK40E-ER25-80 | 1~16   | 42 | 70 |
| HSK40E-ER32-80 | 2~20   | 50 | 70 |

## 雕刻機高速 HSK-F 型刀桿

動平衡: G2.5 24000rpm

| Code           | d    | L1 | L  | D  |
|----------------|------|----|----|----|
| HSK63F-ER32-70 | 2~20 | 60 | 60 | 50 |
| HSK63F-ER40-70 | 3~26 | 60 | 60 | 63 |



| Model No  | Nut 螺帽規格              | D外徑  | L高   | ERA型 TYPE                                                                           |                                                                                      | Model No  | 扳手A    |
|-----------|-----------------------|------|------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------|--------|
| 3XAER08A  | ER8A ( M10*0.75P )    | 13.5 | 12   |    |    | 31GER08A  | 12     |
| 3XAER11A  | ER11A(M14*0.75P粗牙)    | 19   | 13   |                                                                                     |                                                                                      | 31GER11A  | 17     |
| 3XAER16A  | ER16A ( M22*1.5P粗牙 )  | 28   | 18.5 |                                                                                     |                                                                                      | 31GER16A  | 25     |
| 3XAER20A  | ER20A ( M25*1.5P粗牙 )  | 34   | 21   |                                                                                     |                                                                                      | 31GER20A  | 30     |
| Model No  | Nut 螺帽規格              | D外徑  | L高   |                                                                                     |                                                                                      |           |        |
| 3XAER11A1 | ER11A (M13*0.75P細牙)特制 | 19   | 13   |    |    | 31GER08A  | 12     |
| 3XAER16A1 | ER16A ( M19*1.0P細牙)特制 | 28   | 18.5 |                                                                                     |                                                                                      | 31GER11A  | 17     |
| 3XAER20A0 | ER20A ( M24*1.0P細牙)特制 | 34   | 21   |                                                                                     |                                                                                      | 31GER16A  | 25     |
| 3XAER20A1 | ER20A ( M26*1.5P細牙)特制 | 34   | 21   |                                                                                     |                                                                                      | 31GER20A  | 30     |
| Model No  | Nut 螺帽規格              | D外徑  | L高   | ERM型 TYPE                                                                           |                                                                                      | Model No  | 扳手M    |
| 3XAER08M  | ER8M ( M10*0.75P )    | 12   | 10.8 |    |    | 31GER08M  | 13     |
| 3XAER11M  | ER11M ( M13*0.75P細牙 ) | 16   | 12   |                                                                                     |                                                                                      | 31GER11M  | 17     |
| 3XAER16M  | ER16M ( M19*1.0P細牙 )  | 22   | 17   |                                                                                     |                                                                                      | 31GER16M  | 22.5   |
| 3XAER20M  | ER20M (M24*1.0細牙)     | 28   | 19   |                                                                                     |                                                                                      | 31GER20M  | 29     |
| Model No  | Nut 螺帽規格              | D    | L    | ERMS型 TYPE                                                                          |                                                                                      | Model No  | 扳手MS   |
| 3XAER11MS | ER11MS(M13*0.75細牙)    | 16   | 11.5 |    |    | 31GER11MS |        |
| 3XAER16MS | ER16MS(M19*1.0細牙)     | 20   | 17   |                                                                                     |                                                                                      | 31GER16MS | 15.5   |
| 3XAER20MS | ER20MS(M24*1.0細牙)     | 28   | 19   |                                                                                     |                                                                                      | 31GER20MS | 19     |
| Model No  | Nut 螺帽規格              | D    | L    | ERUM型 TYPE                                                                          |                                                                                      |           | 扳手UM   |
| 3XAER25U  | ER25UM ( M32*1.5P粗牙 ) | 42   | 21.5 |  |  | 31GER25UM | 37     |
| 3XAER32U  | ER32UM ( M40*1.5P粗牙 ) | 50   | 24   |                                                                                     |                                                                                      | 31GER32UM | 45     |
| 3XAER40U  | ER40UM ( M50*1.5P粗牙 ) | 63   | 26   |                                                                                     |                                                                                      | 31GER40UM | 59     |
| 3XAER50U  | ER50UM ( M64*2P粗牙 )   | 78   | 35   |                                                                                     |                                                                                      | 31GER50UM |        |
| Model No  | Nut 螺帽規格              | D    | L    | GER TYPE                                                                            |                                                                                      |           | 扳手1GSK |
| 3XAGER11  | GER11(M13*0.75細牙)     | 16   | 12   |  |  | 31GSK03   | 16     |
| 3XAGER16  | GER16(M22*1.5P粗牙)     | 27   | 19.5 |                                                                                     |                                                                                      | 31GSK09   | 27     |
| 3XAGER20  | GER20(M25*1.5P粗牙)     | 35   | 20.5 |                                                                                     |                                                                                      | 31GSK15   | 35     |
| 3XAGER25  | GER25(M32*1.5P粗牙)     | 40   | 23.5 |                                                                                     |                                                                                      | 31GSK16   | 40     |
| 3XAGER32  | GER32(M40*1.5P粗牙)     | 50   | 25.5 |                                                                                     |                                                                                      | 31GSK19   | 50     |
| 3XAGER16A | GER16(M19*1.0細牙)特制    | 22   | 19   |  |  | 31GSK08   | 22     |
| 3XAGER20A | GER20(M24*1.0細牙)特制    | 27.5 | 19   |                                                                                     |                                                                                      | 31GSK10   | 27.5   |
| Model No  | Nut 螺帽規格              | D外徑  | L    | 無風阻螺帽                                                                               |                                                                                      |           | 重量KG   |
| 3XA-SK06B | SK06 M15.5*1P         | 20   | 19   |  |  | 31GSK07   | 0.05   |
| 3XA-SK10B | SK10 M22*1.25P        | 30   | 24   |                                                                                     |                                                                                      | 31GSK12   |        |
| 3XA-SK10C | SK10 M21.5*1.0P       | 27   | 19   |                                                                                     |                                                                                      | 31GSK09   | 0.07   |
| 3XA-SK13B | SK13 M28*1.5P         | 35   | 27   |                                                                                     |                                                                                      | 31GSK15   | 0.07   |
| 3XA-SK16B | SK16 M32*1.5P         | 40   | 31.3 |                                                                                     |                                                                                      | 31GSK16   | 0.11   |
| 3XA-SK20B | SK20 M40*1.5P         | 56   | 53   |                                                                                     |                                                                                      | 31GSK20   | 0.18   |

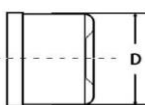
滾針軸承扳手

Bearing wrench



| Model No. | C Ø  | 使用螺帽       | Model No. | C Ø | 使用螺帽       |
|-----------|------|------------|-----------|-----|------------|
| 31GSK01   | 12   |            | 31GSK12   | 30  | SK10/ER16  |
| 31GSK02   | 14   |            | 31GSK13   | 32  |            |
| 31GSK03   | 16   | GER11      | 31GSK14   | 33  |            |
| 31GSK04   | 18   |            | 31GSK15   | 35  | SK13/GER20 |
| 31GSK05   | 19   |            | 31GSK16   | 40  | SK16/GER25 |
| 31GSK06   | 19.5 |            | 31GSK17   | 42  |            |
| 31GSK07   | 20   | SK6        | 31GSK18   | 48  |            |
| 31GSK08   | 22   | GER16      | 31GSK19   | 50  | SK20/GER32 |
| 31GSK09   | 27   | SK10/GER16 | 31GSK20   | 56  |            |
| 31GSK10   | 27.5 | SK10/GER20 | 31GSK21   | 62  |            |
| 31GSK11   | 28   |            | 31GSK22   | 68  |            |



| 螺帽NUT                                                                             |                                                                                                                                                                     | Model No  | D外徑 | 螺紋牙           | 重量KG  |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----|---------------|-------|
| SK nut<br>A TYPE                                                                  |   | 3XA-SK10  | 29  | BT30-M22*1.25 | 0.05  |
|                                                                                   |                                                                                                                                                                     | 3XA-SK10A | 29  | M22*1.5P      |       |
|                                                                                   |                                                                                                                                                                     | 3XA-SK13A | 37  | M28*1.5P      | 0.07  |
|                                                                                   |                                                                                                                                                                     | 3XA-SK16A | 40  | M32*1.5P      | 0.11  |
| SK A 扳手 wrench                                                                    |                                                                                                                                                                     | Model No  | 內徑C |               | 淨重/kg |
|  | 開口扳手                                                                                                                                                                | 31G-SK10A | 26  |               | 0.02  |
|                                                                                   |                                                                                                                                                                     | 31G-SK13A | 33  |               | 0.25  |
|                                                                                   |                                                                                                                                                                     | 31G-SK16A | 36  |               | 0.32  |

| SK 勾型螺帽/扳手                                                                                                                                                         |  | Model No  | D外徑   | 螺紋牙      | 重量KG  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|-------|----------|-------|
|   |  | 3XA-SK20A | 50    | M40*1.5P | 0.18  |
|                                                                                                                                                                    |  | 3XA-SK25A | 56    | M45*1.5P | 0.21  |
|                                                                                                                                                                    |  | Model No  |       | 內徑C      | 淨重/kg |
|                                                                                                                                                                    |  | 31G-SK20A | 45-52 |          | 0.44  |
|                                                                                                                                                                    |  | 31G-SK25A | 55-62 |          | 0.50  |

## 1GMU月牙扳手

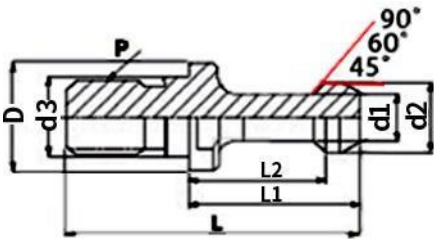
鑄鐵月牙扳手



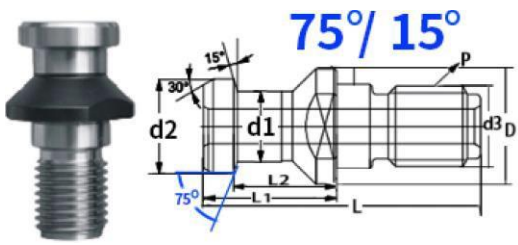
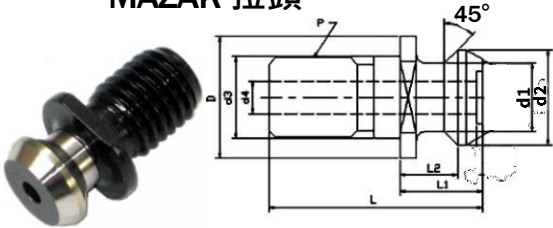
APU13範圍48-52  
APU16範圍54-58  
C32-OZ32範圍68-73  
C42範圍88-96mm  
OZ25-C20-ER40 範圍55-63  
OZ32-C32 範圍68-73  
SK16-ER25 範圍38-42

| 代號     | 規格    | 扳手                       | 代號     | 規格      | 扳手  |
|--------|-------|--------------------------|--------|---------|-----|
| 1GMU01 | 18-22 |                          | 1GMU11 | 85-105  | C42 |
| 1GMU02 | 22-26 |                          | 1GMU12 | 90-95   |     |
| 1GMU03 | 28-32 |                          | 1GMU13 | 100-110 |     |
| 1GMU04 | 34-36 |                          | 1GMU14 | 110-115 |     |
| 1GMU05 | 38-42 | ER25                     | 1GMU15 | 115-130 |     |
| 1GMU06 | 45-52 | C25/SK20/APU13           | 1GMU16 | 135-145 |     |
| 1GMU07 | 55-62 | C20/OZ25/ER40/SK25/APU16 | 1GMU17 | 135-160 |     |
| 1GMU08 | 68-72 | OZ32/C32                 | 1GMU18 | 150-160 |     |
| 1GMU09 | 68-80 |                          | 1GMU19 | 165-170 |     |
| 1GMU10 | 78-85 |                          | 1GMU20 | 180-200 |     |

7:24 錐度主軸拉力計對應拉頭 Pull stud



MAZAK 拉頭



SK DIN69872A(ISO / JT / DAT / DV)拉頭都共用

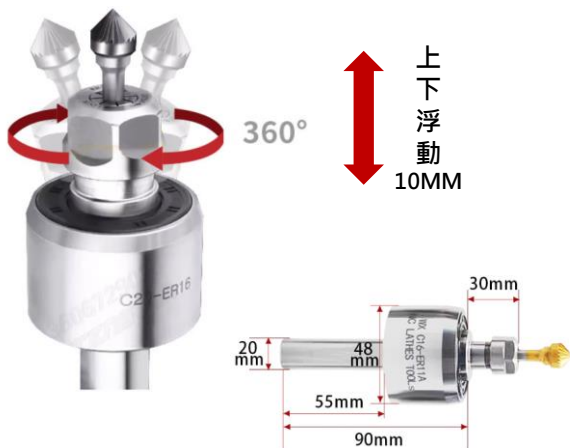
| 選取尺寸               | 選拉頭角度       | D    | d1 | d2 | d3   | d4 | L  | L1   | L2   | P        |
|--------------------|-------------|------|----|----|------|----|----|------|------|----------|
| ISO20-75°          | 75°/15°     | 11.4 | 6  | 9  | 8.5  | -  | 26 | 12   | 9    | M8*1.25  |
| ISO25-75°          | 75°/15°     | 12   | 7  | 10 | 9    | -  | 32 | 16   | 11.6 | M8*1.25  |
| BT30-              | 45°/60°/90° | 16.5 | 7  | 11 | 12.5 | -  | 43 | 23   | 18   | M12*1.75 |
| ISO30 (SK DIN30)-A | 75°/15°     | 17   | 9  | 13 | 13   | 3  | 44 | 24   | 19   | M12*1.75 |
| JIS6339-30P        | 75°/15°     | 16.5 | 8  | 12 | 12.5 | 4  | 43 | 23.4 | 18.4 | M12*1.75 |

| 選取尺寸                | 選拉頭角度       | D  | d1    | d2   | d3 | d4 | L     | L1    | L2    | P       |
|---------------------|-------------|----|-------|------|----|----|-------|-------|-------|---------|
| BT40-               | 45°/60°/90° | 23 | 10    | 15   | 17 | -  | 60    | 35    | 28    | M16*2.0 |
| CAT40-B長            | 45°/60°/90° | 23 | 10    | 15   | -  | -  | 57.15 | 32.15 | 25.15 | M16*2.0 |
| ISO40/(SK DIN40)-A短 | 75°/15°     | 23 | 14    | 19   | 17 | 7  | 54    | 26    | 20    | M16*2.0 |
| ISO40/(SK DIN40)-B長 | 75°/15°     | 23 | 14    | 19   | 17 | 7  | 54    | 29    | 23    | M16*2.0 |
| JIS6339-40P         | 75°/15°     | 23 | 14    | 19   | 17 | 7  | 54    | 29    | 23    | M16*2.0 |
| MAZAK-CAT40-45°A短   | 45°         | 22 | 12.45 | 18.8 | 17 | 7  | 41.1  | 16.25 | 11    | M16*2.0 |
| MAZAK-BT40          | 45°         | 22 | 12.45 | 18.8 | 17 | 7  | 44.1  | 19.1  | 14    | M16*2.0 |
| ISO7388-40          | 45°         | 36 | 12.9  | 18.9 |    |    | 44.5  | 16.4  | 11.15 | M16*2.0 |

| 選取尺寸              | 選拉頭角度       | D    | d1    | d2    | d3 | d4   | L     | L1    | L2    | P       |
|-------------------|-------------|------|-------|-------|----|------|-------|-------|-------|---------|
| BT50-             | 45°/60°/90° | 38   | 17    | 23    | 25 | -    | 85    | 45    | 35    | M24*3.0 |
| CAT50-B長          | 45°/60°/90° | 38   | 17    | 23    | -  | -    | 78.6  | 45    | 35    | M24*3.0 |
| ISO50A/(SK DIN50) | 75°/15°     | 36   | 21    | 28    | 25 | 11.5 | 74    | 34    | 25    | M24*3.0 |
| JIS6339-50°PB     | 75°/15°     | 38   | 21    | 28    | 25 | -    | 74    | 34    | 25    | M24*3.0 |
| MAZAK-BT50        | 45°         | 36.8 | 20.73 | 28.95 | 25 | 10   | 65.2  | 25.35 | 17.7  | M24*3.0 |
| MAZAK-CAT50-A短    | 45°         | 36.8 | 20.73 | 28.95 | -  | 11.8 | 58.42 | 25.35 | 17.7  | M24*3.0 |
| ISO7388-50        | 45°         | 30   | 19.6  | 29.1  |    | -    | 65.5  | 25.5  | 17.95 | M24*3.0 |



## 360°萬向浮動倒角刀桿



| 代號     | 型號         | D  |
|--------|------------|----|
| 3Z22R1 | ER11A-C16柄 | 19 |
| 3Z22R2 | ER16A-C20柄 | 28 |
| 3Z22R3 | ER16M-C20柄 | 16 |

## 上下浮動倒角刀桿

可以使用孔1~13.5



| 代號       | 型號         | D  |
|----------|------------|----|
| 3Z22ER01 | ER11M-C12柄 | 16 |
| 3Z22ER02 | ER11M-C16柄 | 16 |
| 3Z22ER03 | ER11M-C20柄 | 16 |
| 3Z22ER04 | ER11A-C16柄 | 28 |
| 3Z22ER05 | ER11A-C20柄 | 28 |
| 3Z22ER06 | ER16A-C12柄 | 28 |
| 3Z22ER07 | ER16M-C12柄 | 22 |
| 3Z22ER08 | ER16M-C16柄 | 28 |
| 3Z22ER09 | ER16A-C16柄 | 28 |
| 3Z22ER10 | ER16A-C20柄 | 28 |
| 3Z22ER11 | ER20A-C16柄 | 34 |
| 3Z22ER12 | ER20A-C20柄 | 34 |

## 鎢鋼滾磨/倒角去毛刺



| 代號         | 型號         |
|------------|------------|
| 3JEEAK0912 | 90度12*6柄 K |
| 3JEEAK0916 | 90度16*6柄 K |
| 3JEEAK0612 | 60度12*6柄 J |
| 3JEEAK0616 | 60度16*6柄 J |
| 3JEEAK0312 | 60度12*6柄 M |
| 3JEEAK0316 | 60度16*6柄 M |

## 車床自動拉料器



## 360°萬向浮動絞刀柄

徑向浮動絞刀柄360度浮動刀柄 自動回中心



| 代號        | 型號          | D  |
|-----------|-------------|----|
| 3Z2R2ER01 | ER11A-C10柄  | 19 |
| 3Z2R2ER02 | ER11M-C10柄  | 16 |
| 3Z2R2ER03 | ER11M-C12柄  | 16 |
| 3Z2R2ER04 | ER11M-C20柄  | 16 |
| 3Z2R2ER05 | ER16A-C12柄  | 28 |
| 3Z2R2ER06 | ER16M-C12柄  | 22 |
| 3Z2R2ER07 | ER16M-C16柄  | 22 |
| 3Z2R2ER08 | ER16M-C20柄  | 22 |
| 3Z2R2ER09 | ER20A-C25柄  | 34 |
| 3Z2R2ER10 | ER25UM-C20柄 | 42 |
| 3Z2R2ER11 | ER25UM-C25柄 | 42 |
| 3Z2R2ER12 | ER25UM-C16柄 | 42 |
| 3Z2R2ER13 | ER32UM-C20柄 | 50 |
| 3Z2R2ER14 | ER32UM-C25柄 | 50 |



## 旋轉沖削刀具 Rotary broaching tool set

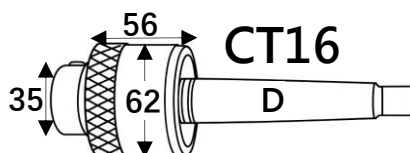
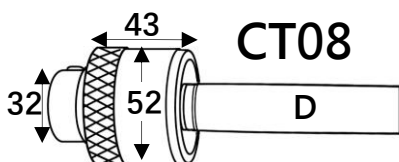
CT08/CT16  
銑車柄



CT08/CT16 莫式錐柄



CT08  
走心機本體

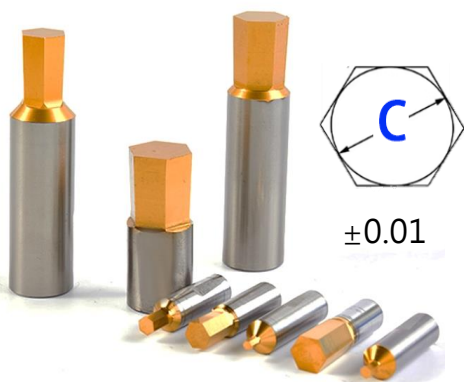


### 旋轉沖削刀具本體

| 代號         | 規格   | 選D柄 |      |
|------------|------|-----|------|
| 3TWACT0801 | CT08 | 16  | 銑車柄  |
| 3TWACT0802 |      | 20  |      |
| 3TWACT0803 |      | 25  |      |
| 3TWACT0804 |      | 32  |      |
| 3TWACT0805 |      | 16  | 走心機  |
| 3TWACT0806 |      | 20  |      |
| 3TWACT0807 |      | 22  |      |
| 3TWACT0808 |      | 25  |      |
| 3TWACT0809 |      | MT2 | 莫式錐柄 |
| 3TWACT0810 |      | MT3 |      |
| 3TWACT0812 |      | MT4 |      |
| 3TWACT0813 |      | MT5 |      |
| 3TWACT1601 | CT16 | 20  | 銑車柄  |
| 3TWACT0162 |      | 25  |      |
| 3TWACT1603 |      | 32  |      |
| 3TWACT1604 |      | MT3 | 莫式柄  |
| 3TWACT1605 |      | MT4 |      |
| 3TWACT1606 |      | MT5 |      |

### 內六角沖頭

Hex broaching head



### HSS 鋼/不鏽鋼用六角沖頭

| 代號         | TYPE     | 對邊 C |
|------------|----------|------|
| 3TWCT08015 | CT08-1.5 | 1.55 |
| 3TWCT0802  | CT08-2   | 2.05 |
| 3TWCT08025 | CT08-2.5 | 2.55 |
| 3TWCT0803  | CT08-3   | 3.08 |
| 3TWCT0804  | CT08-4   | 4.08 |
| 3TWCT0805  | CT08-5   | 5.1  |
| 3TWCT0806  | CT08-6   | 6.1  |
| 3TWCT0808  | CT08-8   | 8.1  |
| 3TWCT0810  | CT08-10  | 10.1 |
| 3TWCT0811  | CT08-11  | 11.1 |
| 3TWCT0812  | CT08-12  | 12.1 |

### HSS 鋁銅用六角沖頭

| 代號          | TYPE     | 對邊 C |
|-------------|----------|------|
| 3TWCT08A015 | CT08-1.5 | 1.55 |
| 3TWCT08A02  | CT08-2   | 2.05 |
| 3TWCT08A025 | CT08-2.5 | 2.55 |
| 3TWCT08A03  | CT08-3   | 3.08 |
| 3TWCT08A04  | CT08-4   | 4.08 |
| 3TWCT08A05  | CT08-5   | 5.1  |
| 3TWCT08A06  | CT08-6   | 6.1  |
| 3TWCT08A08  | CT08-8   | 8.1  |
| 3TWCT08A10  | CT08-10  | 10.1 |
| 3TWCT08A11  | CT08-11  | 11.1 |
| 3TWCT08A12  | CT08-12  | 12.1 |

Required hole size

| M    | 鑽孔尺寸<br>C+0.03~0.2 | M   | 鑽孔尺寸<br>C+0.03~0.2 |
|------|--------------------|-----|--------------------|
| M1.5 | 1.55 +0.03=1.58    | M8  | 8.1 +0.10=8.2      |
| M2   | 2.05 +0.03=2.08    | M10 | 10.1 +0.1=10.2     |
| 2.5  | 2.55 +0.03=2.58    | M11 | 11.1 +0.1=11.2     |
| M3   | 3.08 +0.05=3.16    | M12 | 12.1 +0.2=12.3     |
| M4   | 4.08 +0.05=4.1     | M14 | 14.1 +0.2=14.3     |
| M5   | 5.1 +0.05=5.15     | M17 | 17.1 +0.2=17.3     |
| M6   | 6.1 +0.10=6.2      |     |                    |

### HSS 鋼/不鏽鋼用六角沖頭

| 代號        | TYPE    | 對邊 C |
|-----------|---------|------|
| 3TWCT1604 | CT16-4  | 4.08 |
| 3TWCT1605 | CT16-5  | 5.1  |
| 3TWCT1606 | CT16-6  | 6.1  |
| 3TWCT1608 | CT16-8  | 8.1  |
| 3TWCT1610 | CT16-10 | 10.1 |
| 3TWCT1611 | CT16-11 | 11.1 |
| 3TWCT1612 | CT16-12 | 12.1 |
| 3TWCT1614 | CT16-14 | 14.1 |
| 3TWCT1616 | CT16-16 | 16.1 |
| 3TWCT1617 | CT16-17 | 17.1 |
| 3TWCT1619 | CT16-19 | 19.1 |



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