



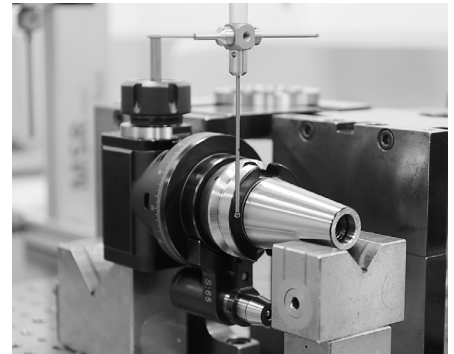
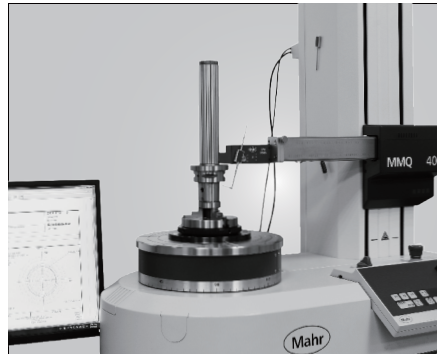
# PRO-E COLLET CHUCK

NO.2021-03





# COMPANY INTRODUCTION







# 品質創造信譽 信譽保證品質

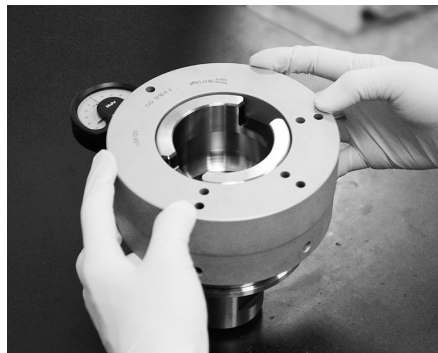
Quality creates reputation; reputation ensures quality.

## About SYIC

Established in 1979, SYIC is a professional manufacturer of precise tool holders, cutting tools, angel heads, boring series and collets with more than 500 employees. The taper types of tool holders we manufacture include BT (MAS403), CAT (ANSI B5.50), DAT (DIN69871-A), HSK (DIN69893), PSC (ISO26623-1), VDI (DIN ISO10889) and straight shank holders.

SYIC is certified to ISO9001 and ISO14001. With contribution to the design, production and sale of high accuracy and inventive products, SYIC has over 300 pieces of patents worldwide. SYIC keeps investing in high-end equipment and measuring instruments from Japan and Europe to implement excellent quality control and manufacturing capability.

SYIC keeps the core value "Quality creates reputation; reputation ensures quality" to impress our customers, possessing professional technical skills to provide comprehensive solutions for customers, improving customers' machining efficiency, and enhancing the mutual competitiveness with customers. Based on the mission of "Excellent service, supreme quality," SYIC will continue to launch more high precision products to customers.



# Tool Holders

**Your reliable partner!**

————— CNC turning, milling and grinding —————



[www.syic.com](http://www.syic.com)



供需平衡 共榮共存

Maintain the balance of suppliers and customers and grow together.

未來之路 無限寬廣

Create a great future with infinite opportunities.

營運獲利 永續經營

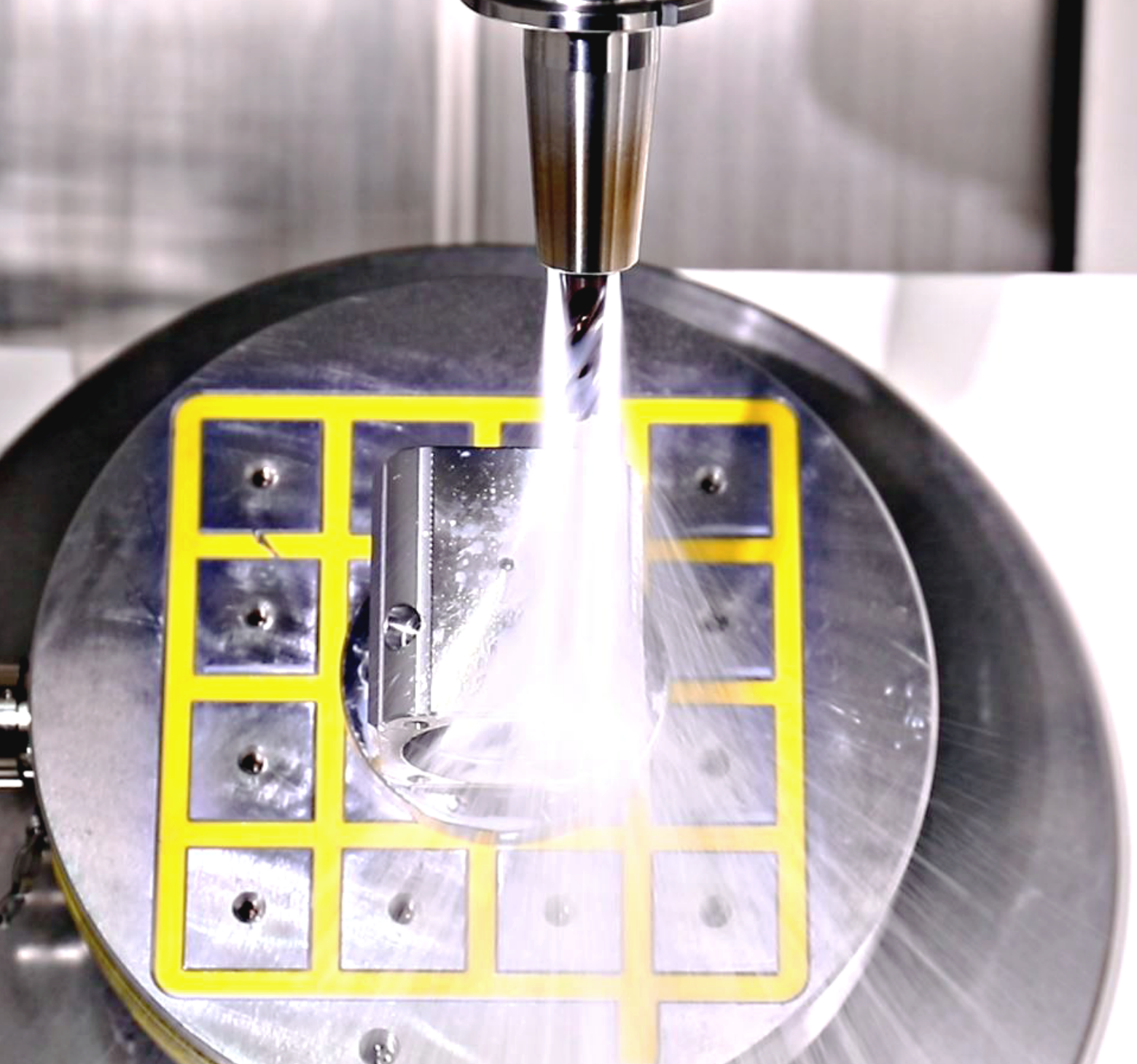
Run a profitable company with sustainable development.

合作到底 共創通贏

Keep everlasting cooperation and together create a win-win situation.

成就彼此 榮耀一切

Support each other and accomplish mutual success.



### **Innovation is our mission!**

SYIC is committed to developing high precision products to optimize the machining process and offering professional technical service. With experienced technical professionals, our products are developed in response to different types of industries. We aim to achieve customers' demands from different industries including machining industry, mold and die industry, aerospace industry, automotive industry, and energy industry. We offer the most professional and technical service, effectively resolve your machining problems to create maximum production efficiency.

# PRO-E COLLET CHUCK

|                                  |              |
|----------------------------------|--------------|
| <b>SBT / PRO-E COLLET CHUCK</b>  | <b>12~14</b> |
| <b>SCAT / PRO-E COLLET CHUCK</b> | <b>15~16</b> |
| <b>SDAT / PRO-E COLLET CHUCK</b> | <b>17~18</b> |
| <b>HSK / PRO-E COLLET CHUCK</b>  | <b>19~27</b> |
| <b>PSC / PRO-E COLLET CHUCK</b>  | <b>28~31</b> |
| <b>ACCESSORIES</b>               | <b>32</b>    |



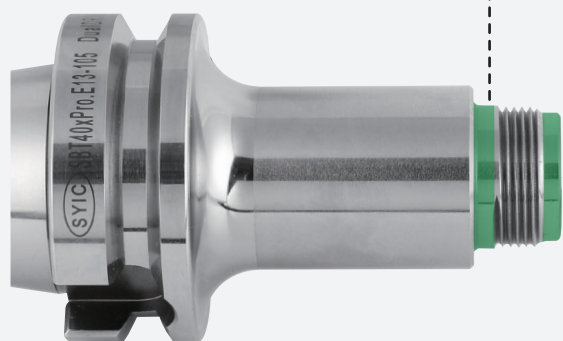


# PRO-E COLLET CHUCK



Superior interchangeability with ER collets.  
Optimized design improves machining stability.

- ▶ The design of straight parts above and below the thread makes PRO-E tool holders have better contact with clamping nuts to achieve higher runout accuracy.



- ▶ The enlarged design of holder ID hole optimizes the coverage of ER collet, shortens the tool overhanging length and improves runout accuracy and machining stability.

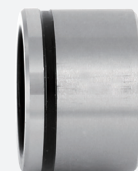


- ▶ Can use with ERS metallic sealed collets for coolant tools; coolant pressure can be up to 70 bar. Coolant collets FID and FOD type are also available.

- ▶ Assembled with all ER collets.
- ▶ ER collets must conform to
  - ISO 15488 standard.

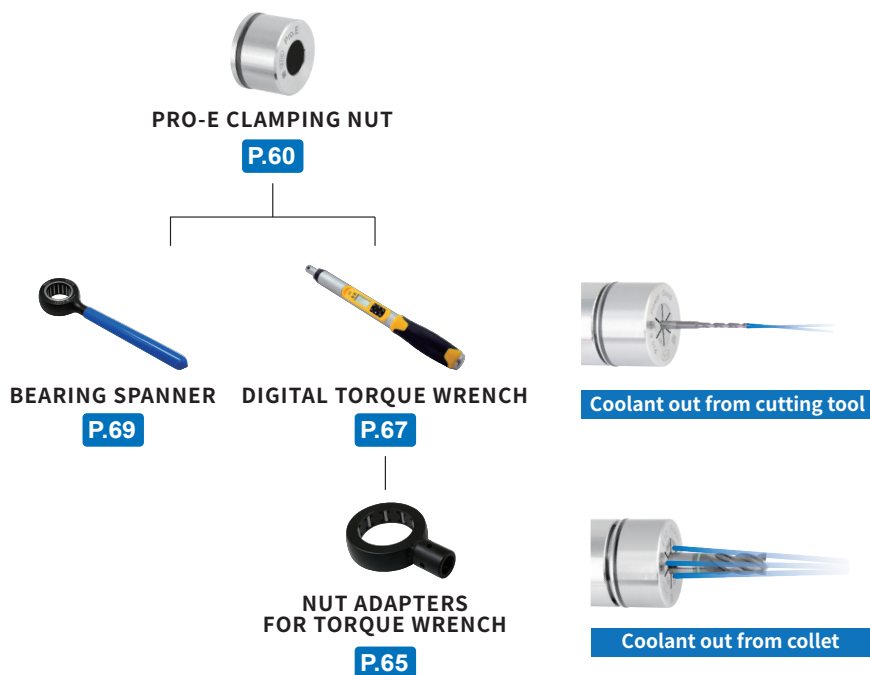
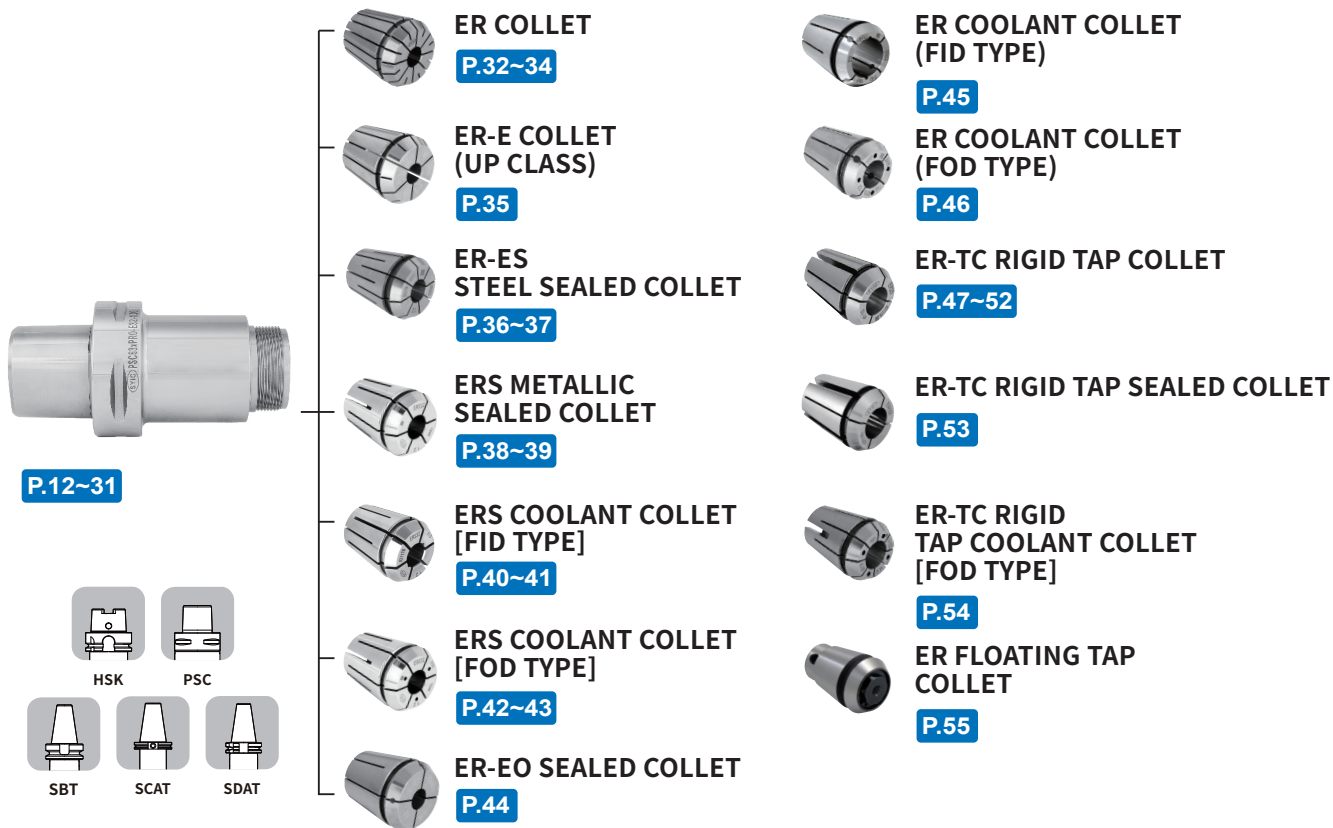


- ▶ "Power Good" increases the holding power by at least 60%.



- ▶ The clamping nut is without slots for reducing the windshear and noise. The best choice for high speed machining.


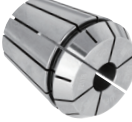











# APPLICATION DIAGRAM



# SYIC ER COLLET SERIES

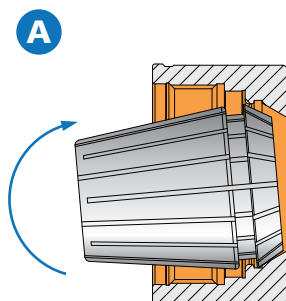
SYIC ER 筒夾系列

(DIN ISO 15488)

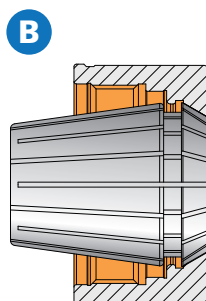
| FEATURES                    | ER COLLET   | ER-E COLLET   | ER-ES STEEL SEALED COLLET   | ERS METALLIC SEALED COLLET   | ERS COOLANT COLLET (FID TYPE)   | ERS COOLANT COLLET (FOD TYPE)   |
|-----------------------------|---|---|---|--|---|---|
|                             |    |    |    |    |    |    |
| Runout accuracy             | 15µm  | ●   | ●   | ●  | ●   | ●   |
|                             | 10µm  | ●   | ●   | ●  | ●   | ●   |
|                             | R 7µm   |   | ●   | ●  | ●   | ●   |
|                             | UP 5µm  | ●   | ●   | ●  | ●   | ●   |
|                             | P 3µm   |   | ●   | ●  | ●   | ●   |
| Clamping range              | 0.5mm~2mm   | N/A   | N/A   | N/A  | N/A   | N/A   |
| Coolant pressure resistance | N/A   | N/A   | 150 kgf/cm <sup>2</sup>   | 150 kgf/cm <sup>2</sup>  | 150 kgf/cm <sup>2</sup>   | 150 kgf/cm <sup>2</sup>   |
| Coolant through             | N/A   | N/A   | through tools   | through tools  | through collet flutes   | through collet holes  |
| Catalogue page              | P.32~34   | P.35  | P.36~37   | P.38~39  | P.40~41   | P.42~43   |
| FEATURES                    | ER-EO SEALED COLLET   | ER COOLANT COLLET (FID TYPE)  | ER COOLANT COLLET (FOD TYPE)  | ER-TC RIGID TAP COLLET   | ER-TC RIGID TAP SEALED COLLET   | ER-TC RIGID TAP COOLANT COLLET (FOD TYPE)   |
|                             |  |  |  |  |  |  |
| Runout accuracy             | 15µm  | ●   | ●   | ●  | -   | -   |
|                             | 10µm  | ●   | ●   | ●  | -   | -   |
|                             | R 7µm   |   |   |  | -   | -   |
|                             | UP 5µm  | ●   | ●   | ●  | -   | -   |
|                             | P 3µm   |   |   |  | -   | -   |
| Clamping range              | N/A   | N/A   | N/A   | N/A  | N/A   | N/A   |
| Coolant pressure resistance | 50 kgf/cm <sup>2</sup>  | 50 kgf/cm <sup>2</sup>  | 50 kgf/cm <sup>2</sup>  | N/A  | 150 kgf/cm <sup>2</sup>   | 150 kgf/cm <sup>2</sup>   |
| Coolant through             | through tools   | through collet flutes   | through collet holes  | N/A  | through tools   | through collet holes  |
| Catalogue page              | P.44  | P.45  | P.46  | P.47~52  | P.53  | P.54  |
| FEATURES                    | ER FLOATING TAP COLLET  |   |   |  |   |   |
|                             |  |   |   |  |   |   |
| Runout accuracy             | 15µm  |   |   |  |   |   |
|                             | 10µm  |   |   |  |   |   |
|                             | R 7µm   | -   |   |  |   |   |
|                             | UP 5µm  |   |   |  |   |   |
|                             | P 3µm   |   |   |  |   |   |
| Clamping range              | N/A   |   |   |  |   |   |
| Coolant pressure resistance | N/A   |   |   |  |   |   |
| Coolant through             | N/A   |   |   |  |   |   |
| Catalogue page              | P.55  |   |   |  |   |   |



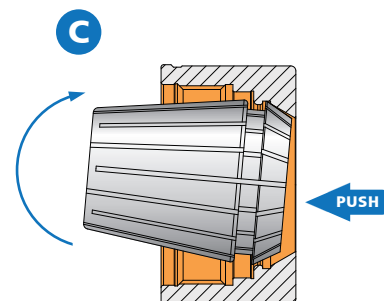
# ASSEMBLY INSTRUCTION



Put the collet in the clamping nut. Let its collet taper contact the spring ring well. Toward the arrow direction, push slightly, and then you can put it in.

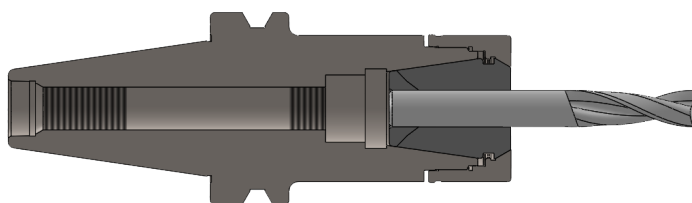


Insert the end mill (cutter) into the body. Tighten clamping nut by wrench. Then it is ready for operation. (Do not tighten the clamping nut before the cutter is installed.)

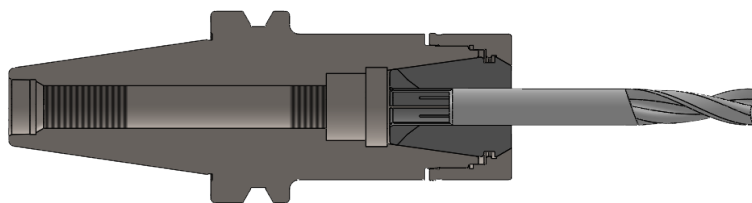


Loosen the nut from the body, and then take out the end mill. Toward the arrow direction, push slightly, and then the collet can be taken out.

## ! Notice



The best performance is inserting the full length of the tool with the collet.



### Reminder:

- ▶ Never less than 2/3 of the collet bore length.

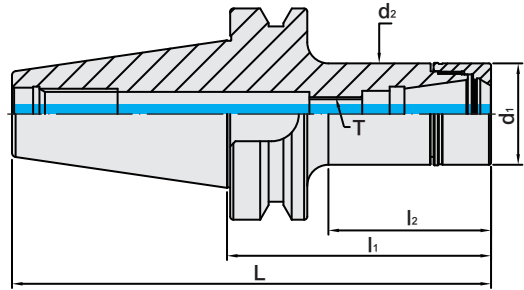
## Recommended tightening torque for PRO-E clamping nuts:

| CLAMPING NUT | COLLET | N.m     |
|--------------|--------|---------|
| PRO-E16      | ER16   | 65 N.m  |
| PRO-E20      | ER20   | 80 N.m  |
| PRO-E25      | ER25   | 140 N.m |
| PRO-E32      | ER32   | 170 N.m |

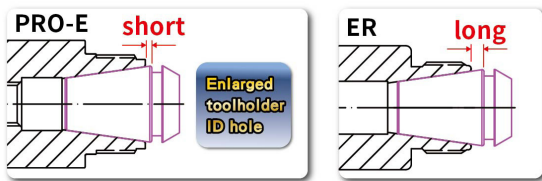
# SBT / PRO-E COLLET CHUCK

Dual DRIVE+

SBT / PRO-E 法蘭加厚型筒夾式刀桿



| MODEL NO.        | TYPE                  | L     | l <sub>1</sub> | l <sub>2</sub> | d <sub>1</sub> | d <sub>2</sub> | T           | SIZE RANGE | WEIGHT (KGS) |
|------------------|-----------------------|-------|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 5025-529-016-070 | SBT30 x PRO-E16 - 70  | 118.4 | 70             | 43             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 0.58         |
| 5025-529-016-100 | SBT30 x PRO-E16 - 100 | 148.4 | 100            | 73             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 0.73         |
| 5025-529-016-125 | SBT30 x PRO-E16 - 125 | 173.4 | 125            | 98             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 0.85         |
| 5025-529-016-150 | SBT30 x PRO-E16 - 150 | 198.4 | 150            | 123            | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 0.97         |
| 5025-529-020-070 | SBT30 x PRO-E20 - 70  | 118.4 | 70             | 44             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 0.65         |
| 5025-529-020-100 | SBT30 x PRO-E20 - 100 | 148.4 | 100            | 74             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 0.85         |
| 5025-529-020-125 | SBT30 x PRO-E20 - 125 | 173.4 | 125            | 99             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.02         |
| 5025-529-020-150 | SBT30 x PRO-E20 - 150 | 198.4 | 150            | 124            | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.19         |
| 5025-529-025-070 | SBT30 x PRO-E25 - 70  | 118.4 | 70             | 47.5           | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 0.73         |
| 5025-529-025-100 | SBT30 x PRO-E25 - 100 | 148.4 | 100            | 77.5           | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.03         |
| 5025-529-025-125 | SBT30 x PRO-E25 - 125 | 173.4 | 125            | 102.5          | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.28         |
| 5025-529-025-150 | SBT30 x PRO-E25 - 150 | 198.4 | 150            | 127.5          | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.53         |
| 5025-529-032-070 | SBT30 x PRO-E32 - 70  | 118.4 | 70             | 47.5           | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 0.79         |
| 5025-529-032-100 | SBT30 x PRO-E32 - 100 | 148.4 | 100            | 77.5           | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 1.22         |
| 5025-529-032-125 | SBT30 x PRO-E32 - 125 | 173.4 | 125            | 102.5          | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 1.58         |
| 5025-529-032-150 | SBT30 x PRO-E32 - 150 | 198.4 | 150            | 127.5          | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 1.95         |



**Features:**

- ▶ Superior interchangeability with ER collets.
- ▶ The design of enlarged holder ID hole optimizes the coverage of ER collet, shortens the tool overhanging length, and improves runout accuracy and machining stability.
- ▶ The design of straight parts above and below the thread makes PRO-E tool holders have better contact with clamping nuts to achieve higher runout accuracy.
- ▶ PRO-E nuts without slots reduce the wind shear at high speed.

**Product information:**

- ▶ Balance: G2.5 25,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.
- ▶ SBT30 tool holders aer without coolant supply over collars.

**Standard Accessory: • NUT**

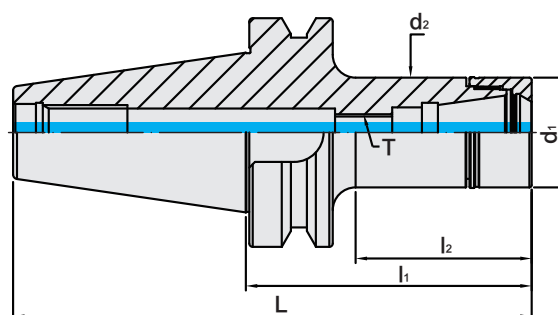
| Collet  | Nut  | Pull Stud | Preset Screw | Spanner | Torque Wrench Adapter (Pull Stud) | Spanner (Pull Stud) |
|---------|------|-----------|--------------|---------|-----------------------------------|---------------------|
|         |      |           |              |         |                                   |                     |
| P.32~55 | P.60 | P.61      | P.64         | P.69    | P.66                              | P.70                |



# SBT / PRO-E COLLET CHUCK

Dual  
DRIVE+

SBT / PRO-E 法蘭加厚型筒夾式刀桿



| MODEL NO.        | TYPE                  | L     | l <sub>1</sub> | l <sub>2</sub> | d <sub>1</sub> | d <sub>2</sub> | T           | SIZE RANGE | WEIGHT (KGS) |
|------------------|-----------------------|-------|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 5026-529-016-070 | SBT40 x PRO-E16 - 70  | 135.4 | 70             | 38             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.14         |
| 5026-529-016-100 | SBT40 x PRO-E16 - 100 | 165.4 | 100            | 63             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.28         |
| 5026-529-016-125 | SBT40 x PRO-E16 - 125 | 190.4 | 125            | 88             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.38         |
| 5026-529-016-150 | SBT40 x PRO-E16 - 150 | 215.4 | 150            | 113            | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.49         |
| 5026-529-016-200 | SBT40 x PRO-E16 - 200 | 265.4 | 200            | 163            | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.70         |
| 5026-529-016-250 | SBT40 x PRO-E16 - 250 | 315.4 | 250            | 213            | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.90         |
| 5026-529-020-070 | SBT40 x PRO-E20 - 70  | 135.4 | 70             | 35             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.19         |
| 5026-529-020-100 | SBT40 x PRO-E20 - 100 | 165.4 | 100            | 65             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.38         |
| 5026-529-020-125 | SBT40 x PRO-E20 - 125 | 190.4 | 125            | 90             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.54         |
| 5026-529-020-150 | SBT40 x PRO-E20 - 150 | 215.4 | 150            | 115            | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.69         |
| 5026-529-020-200 | SBT40 x PRO-E20 - 200 | 265.4 | 200            | 165            | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 2.00         |
| 5026-529-020-250 | SBT40 x PRO-E20 - 250 | 315.4 | 250            | 215            | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 2.30         |
| 5026-529-025-070 | SBT40 x PRO-E25 - 70  | 135.4 | 70             | 40             | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.26         |
| 5026-529-025-100 | SBT40 x PRO-E25 - 100 | 165.4 | 100            | 70             | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.54         |
| 5026-529-025-125 | SBT40 x PRO-E25 - 125 | 190.4 | 125            | 95             | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.78         |
| 5026-529-025-150 | SBT40 x PRO-E25 - 150 | 215.4 | 150            | 120            | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 2.02         |
| 5026-529-025-200 | SBT40 x PRO-E25 - 200 | 265.4 | 200            | 170            | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 2.49         |
| 5026-529-025-250 | SBT40 x PRO-E25 - 250 | 315.4 | 250            | 220            | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 2.94         |
| 5026-529-032-070 | SBT40 x PRO-E32 - 70  | 135.4 | 70             | 40             | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 1.31         |
| 5026-529-032-100 | SBT40 x PRO-E32 - 100 | 165.4 | 100            | 70             | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 1.73         |
| 5026-529-032-125 | SBT40 x PRO-E32 - 125 | 190.4 | 125            | 95             | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 2.08         |
| 5026-529-032-150 | SBT40 x PRO-E32 - 150 | 215.4 | 150            | 120            | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 2.43         |
| 5026-529-032-200 | SBT40 x PRO-E32 - 200 | 265.4 | 200            | 170            | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 3.13         |
| 5026-529-032-250 | SBT40 x PRO-E32 - 250 | 315.4 | 250            | 220            | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 3.81         |

**Features:**

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**Product information:**

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- ▶ AD+B type is available, please inform us when making an order.

**Standard Accessory: • NUT**

| Collet  | Nut  | Pull Stud | Preset Screw | Spanner | Torque Wrench Adapter (Pull Stud) | Spanner (Pull Stud) |
|---------|------|-----------|--------------|---------|-----------------------------------|---------------------|
|         |      |           |              |         |                                   |                     |
| P.32~55 | P.60 | P.61      | P.64         | P.69    | P.66                              | P.70                |

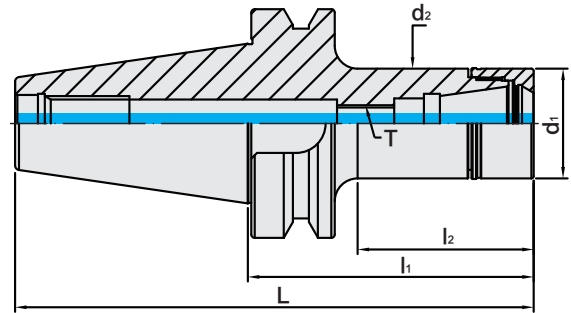




# SBT / PRO-E COLLET CHUCK

Dual  
DRIVE+

SBT / PRO-E 法蘭加厚型筒夾式刀桿



| MODEL NO.        | TYPE                  | L     | l <sub>1</sub> | l <sub>2</sub> | d <sub>1</sub> | d <sub>2</sub> | T           | SIZE RANGE | WEIGHT (KGS) |
|------------------|-----------------------|-------|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 5027-529-016-070 | SBT50 x PRO-E16 - 70  | 171.8 | 70             | 30             | 30             | 30             | M10 x 1.5P  | 1~10       | 3.68         |
| 5027-529-016-100 | SBT50 x PRO-E16 - 100 | 201.8 | 100            | 52             | 30             | 30             | M10 x 1.5P  | 1~10       | 3.78         |
| 5027-529-016-125 | SBT50 x PRO-E16 - 125 | 226.8 | 125            | 77             | 30             | 30             | M10 x 1.5P  | 1~10       | 3.92         |
| 5027-529-016-150 | SBT50 x PRO-E16 - 150 | 251.8 | 150            | 102            | 30             | 30             | M10 x 1.5P  | 1~10       | 4.03         |
| 5027-529-016-200 | SBT50 x PRO-E16 - 200 | 301.8 | 200            | 147            | 30             | 30             | M10 x 1.5P  | 1~10       | 4.27         |
| 5027-529-020-070 | SBT50 x PRO-E20 - 70  | 171.8 | 70             | 31             | 35             | 35             | M12 x 1.75P | 1~13       | 3.70         |
| 5027-529-020-100 | SBT50 x PRO-E20 - 100 | 201.8 | 100            | 52             | 35             | 35             | M12 x 1.75P | 1~13       | 3.86         |
| 5027-529-020-125 | SBT50 x PRO-E20 - 125 | 226.8 | 125            | 77             | 35             | 35             | M12 x 1.75P | 1~13       | 4.06         |
| 5027-529-020-150 | SBT50 x PRO-E20 - 150 | 251.8 | 150            | 102            | 35             | 35             | M12 x 1.75P | 1~13       | 4.22         |
| 5027-529-020-200 | SBT50 x PRO-E20 - 200 | 301.8 | 200            | 147            | 35             | 35             | M12 x 1.75P | 1~13       | 4.56         |
| 5027-529-025-070 | SBT50 x PRO-E25 - 70  | 171.8 | 70             | 31             | 42             | 42             | M16 x 2.0P  | 1~16       | 3.74         |
| 5027-529-025-100 | SBT50 x PRO-E25 - 100 | 201.8 | 100            | 52             | 42             | 42             | M16 x 2.0P  | 1~16       | 4.00         |
| 5027-529-025-125 | SBT50 x PRO-E25 - 125 | 226.8 | 125            | 77             | 42             | 42             | M16 x 2.0P  | 1~16       | 4.20         |
| 5027-529-025-150 | SBT50 x PRO-E25 - 150 | 251.8 | 150            | 102            | 42             | 42             | M16 x 2.0P  | 1~16       | 4.40         |
| 5027-529-025-200 | SBT50 x PRO-E25 - 200 | 301.8 | 200            | 152            | 42             | 42             | M16 x 2.0P  | 1~16       | 4.80         |
| 5027-529-025-250 | SBT50 x PRO-E25 - 250 | 351.8 | 250            | 197            | 42             | 42             | M16 x 2.0P  | 1~16       | 5.24         |
| 5027-529-032-070 | SBT50 x PRO-E32 - 70  | 171.8 | 70             | 31             | 50             | 50             | M16 x 2.0P  | 2~20       | 3.77         |
| 5027-529-032-100 | SBT50 x PRO-E32 - 100 | 201.8 | 100            | 52             | 50             | 50             | M16 x 2.0P  | 2~20       | 4.17         |
| 5027-529-032-125 | SBT50 x PRO-E32 - 125 | 226.8 | 125            | 77             | 50             | 50             | M16 x 2.0P  | 2~20       | 4.48         |
| 5027-529-032-150 | SBT50 x PRO-E32 - 150 | 251.8 | 150            | 102            | 50             | 50             | M16 x 2.0P  | 2~20       | 4.79         |
| 5027-529-032-200 | SBT50 x PRO-E32 - 200 | 301.8 | 200            | 152            | 50             | 50             | M16 x 2.0P  | 2~20       | 5.42         |
| 5027-529-032-250 | SBT50 x PRO-E32 - 250 | 351.8 | 250            | 197            | 50             | 50             | M16 x 2.0P  | 2~20       | 6.08         |
| 5027-529-032-300 | SBT50 x PRO-E32 - 300 | 401.8 | 300            | 247            | 50             | 50             | M16 x 2.0P  | 2~20       | 6.70         |
| 5027-529-032-350 | SBT50 x PRO-E32 - 350 | 451.8 | 350            | 297            | 50             | 50             | M16 x 2.0P  | 2~20       | 7.32         |

**Features:**

- ▶ Superior interchangeability with ER collets.
- ▶ The design of enlarged holder ID hole optimizes the coverage of ER collet, shortens the tool overhanging length, and improves runout accuracy and machining stability.
- ▶ The design of straight parts above and below the thread makes PRO-E tool holders have better contact with clamping nuts to achieve higher runout accuracy.
- ▶ PRO-E nuts without slots reduce the wind shear at high speed.

**Product information:**

- ▶ Balance: G2.5 25,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.

**Standard Accessory: • NUT**

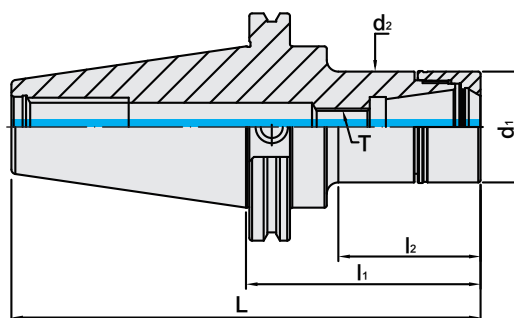
| Collet  | Nut  | Pull Stud | Preset Screw | Spanner | Torque Wrench Adapter (Pull Stud) | Spanner (Pull Stud) |
|---------|------|-----------|--------------|---------|-----------------------------------|---------------------|
|         |      |           |              |         |                                   |                     |
| P.32~55 | P.60 | P.61      | P.64         | P.69    | P.66                              | P.70                |



# SCAT / PRO-E COLLET CHUCK

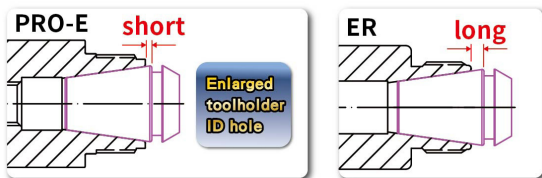
Dual  
DRIVE+

SCAT / PRO-E 法蘭加厚型筒夾式刀桿



**INCHES**

| MODEL NO.        | TYPE                     | L      | l <sub>1</sub> | l <sub>2</sub> | d <sub>1</sub> | d <sub>2</sub> | T           | SIZE RANGE    | WEIGHT (KGS) |
|------------------|--------------------------|--------|----------------|----------------|----------------|----------------|-------------|---------------|--------------|
| 5043-529-016-070 | SCAT40 x PRO-E16 - 2.76" | 5.447  | 2.76           | 1.259          | 1.181          | 1.181          | M10 x 1.5P  | 0.0625~ 0.406 | 1.13         |
| 5043-529-016-102 | SCAT40 x PRO-E16 - 4"    | 6.687  | 4              | 2.175          | 1.181          | 1.181          | M10 x 1.5P  | 0.0625~ 0.406 | 1.29         |
| 5043-529-016-127 | SCAT40 x PRO-E16 - 5"    | 7.687  | 5              | 3.175          | 1.181          | 1.181          | M10 x 1.5P  | 0.0625~ 0.406 | 1.40         |
| 5043-529-016-152 | SCAT40 x PRO-E16 - 6"    | 8.687  | 6              | 4.175          | 1.181          | 1.181          | M10 x 1.5P  | 0.0625~ 0.406 | 1.51         |
| 5043-529-016-203 | SCAT40 x PRO-E16 - 8"    | 10.687 | 8              | 6.175          | 1.181          | 1.181          | M10 x 1.5P  | 0.0625~ 0.406 | 1.72         |
| 5043-529-020-070 | SCAT40 x PRO-E20 - 2.76" | 5.447  | 2.76           | 1.299          | 1.378          | 1.378          | M12 x 1.75P | 0.0625 ~ 0.5  | 1.17         |
| 5043-529-020-102 | SCAT40 x PRO-E20 - 4"    | 6.687  | 4              | 2.354          | 1.378          | 1.378          | M12 x 1.75P | 0.0625 ~ 0.5  | 1.37         |
| 5043-529-020-127 | SCAT40 x PRO-E20 - 5"    | 7.687  | 5              | 3.354          | 1.378          | 1.378          | M12 x 1.75P | 0.0625 ~ 0.5  | 1.53         |
| 5043-529-020-152 | SCAT40 x PRO-E20 - 6"    | 8.687  | 6              | 4.354          | 1.378          | 1.378          | M12 x 1.75P | 0.0625 ~ 0.5  | 1.69         |
| 5043-529-020-203 | SCAT40 x PRO-E20 - 8"    | 10.687 | 8              | 6.354          | 1.378          | 1.378          | M12 x 1.75P | 0.0625 ~ 0.5  | 2.01         |
| 5043-529-025-070 | SCAT40 x PRO-E25 - 2.76" | 5.447  | 2.76           | 1.329          | 1.653          | 1.653          | M16 x 2.0P  | 0.093 ~ 0.625 | 1.21         |
| 5043-529-025-102 | SCAT40 x PRO-E25 - 4"    | 6.687  | 4              | 2.573          | 1.653          | 1.653          | M16 x 2.0P  | 0.093 ~ 0.625 | 1.51         |
| 5043-529-025-127 | SCAT40 x PRO-E25 - 5"    | 7.687  | 5              | 3.573          | 1.653          | 1.653          | M16 x 2.0P  | 0.093 ~ 0.625 | 1.75         |
| 5043-529-025-152 | SCAT40 x PRO-E25 - 6"    | 8.687  | 6              | 4.573          | 1.653          | 1.653          | M16 x 2.0P  | 0.093 ~ 0.625 | 2.00         |
| 5043-529-025-203 | SCAT40 x PRO-E25 - 8"    | 10.687 | 8              | 6.573          | 1.653          | 1.653          | M16 x 2.0P  | 0.093 ~ 0.625 | 2.48         |
| 5043-529-032-070 | SCAT40 x PRO-E32 - 2.76" | 5.447  | 2.76           | 1.378          | 1.969          | 1.969          | M16 x 2.0P  | 0.0625 ~ 0.75 | 1.22         |
| 5043-529-032-102 | SCAT40 x PRO-E32 - 4"    | 6.687  | 4              | 2.622          | 1.969          | 1.969          | M16 x 2.0P  | 0.0625 ~ 0.75 | 1.66         |
| 5043-529-032-127 | SCAT40 x PRO-E32 - 5"    | 7.687  | 5              | 3.622          | 1.969          | 1.969          | M16 x 2.0P  | 0.0625 ~ 0.75 | 2.01         |
| 5043-529-032-152 | SCAT40 x PRO-E32 - 6"    | 8.687  | 6              | 4.622          | 1.969          | 1.969          | M16 x 2.0P  | 0.0625 ~ 0.75 | 2.37         |
| 5043-529-032-203 | SCAT40 x PRO-E32 - 8"    | 10.687 | 8              | 6.622          | 1.969          | 1.969          | M16 x 2.0P  | 0.0625 ~ 0.75 | 3.08         |



**Features:**

- ▶ Superior interchangeability with ER collets.
- ▶ The design of enlarged holder ID hole optimizes the coverage of ER collet, shortens the tool overhanging length, and improves runout accuracy and machining stability.
- ▶ The design of straight parts above and below the thread makes PRO-E tool holders have better contact with clamping nuts to achieve higher runout accuracy.
- ▶ PRO-E nuts without slots reduce the wind shear at high speed.

**Product information:**

- ▶ Balance: G2.5 25,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.

**Standard Accessory: • NUT**

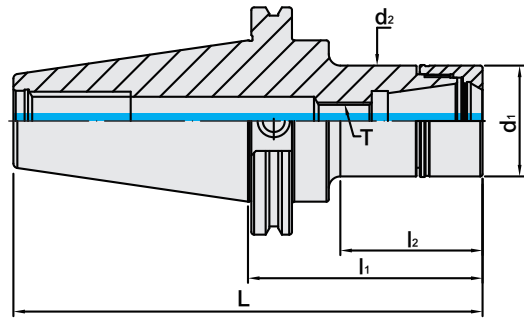
| Collet  | Nut  | Pull Stud | Preset Screw | Spanner | Torque Wrench Adapter (Pull Stud) | Spanner (Pull Stud) |
|---------|------|-----------|--------------|---------|-----------------------------------|---------------------|
|         |      |           |              |         |                                   |                     |
| P.32~55 | P.60 | P.62      | P.64         | P.69    | P.66                              | P.70                |



# SCAT / PRO-E COLLET CHUCK

Dual DRIVE+

SCAT / PRO-E 法蘭加厚型筒夾式刀桿



**INCHES**

| MODEL NO.        | TYPE                     | L    | l <sub>1</sub> | l <sub>2</sub> | d <sub>1</sub> | d <sub>2</sub> | T           | SIZE RANGE    | WEIGHT (KGS) |
|------------------|--------------------------|------|----------------|----------------|----------------|----------------|-------------|---------------|--------------|
| 5044-529-016-070 | SCAT50 x PRO-E16 - 2.75" | 6.75 | 2.75           | 1.175          | 1.181          | 1.181          | M10 x 1.5P  | 0.062 ~ 0.406 | 3.17         |
| 5044-529-016-102 | SCAT50 x PRO-E16 - 4"    | 8    | 4              | 2.228          | 1.181          | 1.181          | M10 x 1.5P  | 0.062 ~ 0.406 | 3.27         |
| 5044-529-016-127 | SCAT50 x PRO-E16 - 5"    | 9    | 5              | 3.031          | 1.181          | 1.181          | M10 x 1.5P  | 0.062 ~ 0.406 | 3.42         |
| 5044-529-016-152 | SCAT50 x PRO-E16 - 6"    | 10   | 6              | 4.031          | 1.181          | 1.181          | M10 x 1.5P  | 0.062 ~ 0.406 | 3.53         |
| 5044-529-016-203 | SCAT50 x PRO-E16 - 8"    | 12   | 8              | 6.031          | 1.181          | 1.181          | M10 x 1.5P  | 0.062 ~ 0.406 | 3.73         |
| 5044-529-016-254 | SCAT50 x PRO-E16 - 10"   | 14   | 10             | 8.031          | 1.181          | 1.181          | M10 x 1.5P  | 0.062 ~ 0.406 | 3.95         |
| 5044-529-020-070 | SCAT50 x PRO-E20 - 2.75" | 6.75 | 2.75           | 1.175          | 1.378          | 1.378          | M12 x 1.75P | 0.062 ~ 0.5   | 3.20         |
| 5044-529-020-102 | SCAT50 x PRO-E20 - 4"    | 8    | 4              | 2.425          | 1.378          | 1.378          | M12 x 1.75P | 0.062 ~ 0.5   | 3.35         |
| 5044-529-020-127 | SCAT50 x PRO-E20 - 5"    | 9    | 5              | 3.228          | 1.378          | 1.378          | M12 x 1.75P | 0.062 ~ 0.5   | 3.52         |
| 5044-529-020-152 | SCAT50 x PRO-E20 - 6"    | 10   | 6              | 4.228          | 1.378          | 1.378          | M12 x 1.75P | 0.062 ~ 0.5   | 3.67         |
| 5044-529-020-203 | SCAT50 x PRO-E20 - 8"    | 12   | 8              | 6.228          | 1.378          | 1.378          | M12 x 1.75P | 0.062 ~ 0.5   | 3.96         |
| 5044-529-020-254 | SCAT50 x PRO-E20 - 10"   | 14   | 10             | 8.228          | 1.378          | 1.378          | M12 x 1.75P | 0.062 ~ 0.5   | 4.26         |
| 5044-529-025-070 | SCAT50 x PRO-E25 - 2.75" | 6.75 | 2.75           | 1.175          | 1.653          | 1.653          | M16 x 2.0P  | 0.093 ~ 0.625 | 3.24         |
| 5044-529-025-102 | SCAT50 x PRO-E25 - 4"    | 8    | 4              | 2.228          | 1.653          | 1.653          | M16 x 2.0P  | 0.093 ~ 0.625 | 3.52         |
| 5044-529-025-127 | SCAT50 x PRO-E25 - 5"    | 9    | 5              | 3.228          | 1.653          | 1.653          | M16 x 2.0P  | 0.093 ~ 0.625 | 3.72         |
| 5044-529-025-152 | SCAT50 x PRO-E25 - 6"    | 10   | 6              | 4.228          | 1.653          | 1.653          | M16 x 2.0P  | 0.093 ~ 0.625 | 3.92         |
| 5044-529-025-203 | SCAT50 x PRO-E25 - 8"    | 12   | 8              | 6.228          | 1.653          | 1.653          | M16 x 2.0P  | 0.093 ~ 0.625 | 4.33         |
| 5044-529-025-254 | SCAT50 x PRO-E25 - 10"   | 14   | 10             | 8.228          | 1.653          | 1.653          | M16 x 2.0P  | 0.093 ~ 0.625 | 4.74         |
| 5044-529-032-070 | SCAT50 x PRO-E32 - 2.75" | 6.75 | 2.75           | 1.254          | 1.969          | 1.969          | M16 x 2.0P  | 0.062 ~ 0.75  | 3.28         |
| 5044-529-032-102 | SCAT50 x PRO-E32 - 4"    | 8    | 4              | 2.425          | 1.969          | 1.969          | M16 x 2.0P  | 0.062 ~ 0.75  | 3.68         |
| 5044-529-032-127 | SCAT50 x PRO-E32 - 5"    | 9    | 5              | 3.425          | 1.969          | 1.969          | M16 x 2.0P  | 0.062 ~ 0.75  | 3.99         |
| 5044-529-032-152 | SCAT50 x PRO-E32 - 6"    | 10   | 6              | 4.425          | 1.969          | 1.969          | M16 x 2.0P  | 0.062 ~ 0.75  | 4.31         |
| 5044-529-032-203 | SCAT50 x PRO-E32 - 8"    | 12   | 8              | 6.425          | 1.969          | 1.969          | M16 x 2.0P  | 0.062 ~ 0.75  | 4.94         |
| 5044-529-032-254 | SCAT50 x PRO-E32 - 10"   | 14   | 10             | 8.425          | 1.969          | 1.969          | M16 x 2.0P  | 0.062 ~ 0.75  | 5.58         |

**Features:**

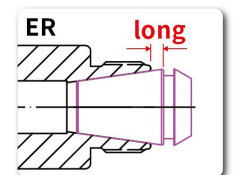
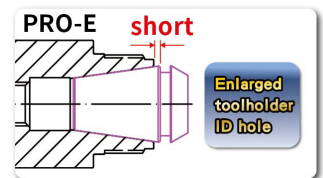
- ▶ Superior interchangeability with ER collets.
- ▶ The design of enlarged holder ID hole optimizes the coverage of ER collet, shortens the tool overhanging length, and improves runout accuracy and machining stability.
- ▶ The design of straight parts above and below the thread makes PRO-E tool holders have better contact with clamping nuts to achieve higher runout accuracy.
- ▶ PRO-E nuts without slots reduce the wind shear at high speed.

**Product information:**

- ▶ Balance: G2.5 25,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.

**Standard Accessory: • NUT**

| Collet  | Nut  | Pull Stud | Preset Screw | Spanner | Torque Wrench Adapter (Pull Stud) | Spanner (Pull Stud) |
|---------|------|-----------|--------------|---------|-----------------------------------|---------------------|
|         |      |           |              |         |                                   |                     |
| P.32~55 | P.60 | P.62      | P.64         | P.69    | P.66                              | P.70                |

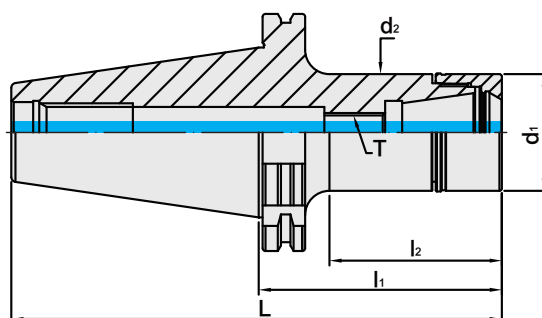




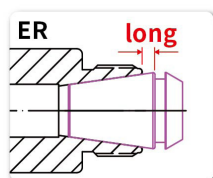
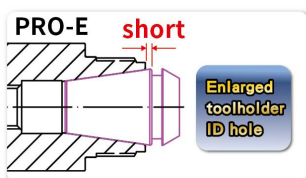
# SDAT / PRO-E COLLET CHUCK

Dual  
DRIVE+

SDAT / PRO-E 法蘭加厚型筒夾式刀桿



| MODEL NO.        | TYPE                   | L     | l <sub>1</sub> | l <sub>2</sub> | d <sub>1</sub> | d <sub>2</sub> | T           | SIZE RANGE | WEIGHT (KGS) |
|------------------|------------------------|-------|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 5066-529-016-070 | SDAT40 x PRO-E16 - 70  | 138.4 | 70             | 45.9           | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.03         |
| 5066-529-016-100 | SDAT40 x PRO-E16 - 100 | 168.4 | 100            | 75.9           | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.16         |
| 5066-529-016-125 | SDAT40 x PRO-E16 - 125 | 193.4 | 125            | 100.9          | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.27         |
| 5066-529-016-150 | SDAT40 x PRO-E16 - 150 | 218.4 | 150            | 125.9          | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.37         |
| 5066-529-016-200 | SDAT40 x PRO-E16 - 200 | 268.4 | 200            | 175.9          | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.59         |
| 5066-529-020-070 | SDAT40 x PRO-E20 - 70  | 138.4 | 70             | 45.9           | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.10         |
| 5066-529-020-100 | SDAT40 x PRO-E20 - 100 | 168.4 | 100            | 75.9           | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.29         |
| 5066-529-020-125 | SDAT40 x PRO-E20 - 125 | 193.4 | 125            | 100.9          | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.44         |
| 5066-529-020-150 | SDAT40 x PRO-E20 - 150 | 218.4 | 150            | 125.9          | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.60         |
| 5066-529-020-200 | SDAT40 x PRO-E20 - 200 | 268.4 | 200            | 175.9          | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.91         |
| 5066-529-025-070 | SDAT40 x PRO-E25 - 70  | 138.4 | 70             | 45.9           | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.20         |
| 5066-529-025-100 | SDAT40 x PRO-E25 - 100 | 168.4 | 100            | 75.9           | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.48         |
| 5066-529-025-125 | SDAT40 x PRO-E25 - 125 | 193.4 | 125            | 100.9          | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.72         |
| 5066-529-025-150 | SDAT40 x PRO-E25 - 150 | 218.4 | 150            | 125.9          | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.95         |
| 5066-529-025-200 | SDAT40 x PRO-E25 - 200 | 268.4 | 200            | 175.9          | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 2.43         |
| 5066-529-032-070 | SDAT40 x PRO-E32 - 70  | 138.4 | 70             | 50.1           | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 1.26         |
| 5066-529-032-100 | SDAT40 x PRO-E32 - 100 | 168.4 | 100            | 80.1           | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 1.66         |
| 5066-529-032-125 | SDAT40 x PRO-E32 - 125 | 193.4 | 125            | 105.1          | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 1.99         |
| 5066-529-032-150 | SDAT40 x PRO-E32 - 150 | 218.4 | 150            | 130.1          | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 2.32         |
| 5066-529-032-200 | SDAT40 x PRO-E32 - 200 | 268.4 | 200            | 180.1          | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 2.99         |



**Features:**

- ▶ Superior interchangeability with ER collets.
- ▶ The design of enlarged holder ID hole optimizes the coverage of ER collet, shortens the tool overhanging length, and improves runout accuracy and machining stability.
- ▶ The design of straight parts above and below the thread makes PRO-E tool holders have better contact with clamping nuts to achieve higher runout accuracy.
- ▶ PRO-E nuts without slots reduce the wind shear at high speed.

**Product information:**

- ▶ Balance: G2.5 25,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.

**Standard Accessory: • NUT**

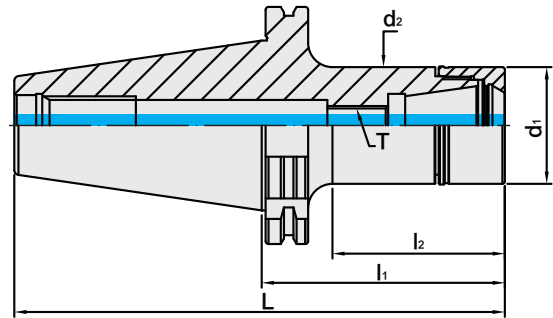
| Collet  | Nut  | Pull Stud | Preset Screw | Spanner | Torque Wrench Adapter (Pull Stud) | Spanner (Pull Stud) |
|---------|------|-----------|--------------|---------|-----------------------------------|---------------------|
|         |      |           |              |         |                                   |                     |
| P.32~55 | P.60 | P.63      | P.64         | P.69    | P.66                              | P.70                |



# SDAT / PRO-E COLLET CHUCK

Dual  
DRIVE+

SDAT / PRO-E 法蘭加厚型筒夾式刀桿



| MODEL NO.        | TYPE                   | L      | l <sub>1</sub> | l <sub>2</sub> | d <sub>1</sub> | d <sub>2</sub> | T           | SIZE RANGE | WEIGHT (KGS) |
|------------------|------------------------|--------|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 5067-529-016-070 | SDAT50 x PRO-E16 - 70  | 171.75 | 70             | 45.9           | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 2.79         |
| 5067-529-016-100 | SDAT50 x PRO-E16 - 100 | 201.75 | 100            | 75.9           | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 2.91         |
| 5067-529-016-125 | SDAT50 x PRO-E16 - 125 | 226.75 | 125            | 95.9           | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 3.03         |
| 5067-529-016-150 | SDAT50 x PRO-E16 - 150 | 251.75 | 150            | 120.9          | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 3.14         |
| 5067-529-016-200 | SDAT50 x PRO-E16 - 200 | 301.75 | 200            | 170.9          | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 3.35         |
| 5067-529-016-250 | SDAT50 x PRO-E16 - 250 | 351.75 | 250            | 220.9          | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 3.56         |
| 5067-529-020-070 | SDAT50 x PRO-E20 - 70  | 171.75 | 70             | 45.9           | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 2.85         |
| 5067-529-020-100 | SDAT50 x PRO-E20 - 100 | 201.75 | 100            | 75.9           | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 3.04         |
| 5067-529-020-125 | SDAT50 x PRO-E20 - 125 | 226.75 | 125            | 95.9           | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 3.21         |
| 5067-529-020-150 | SDAT50 x PRO-E20 - 150 | 251.75 | 150            | 120.9          | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 3.36         |
| 5067-529-020-200 | SDAT50 x PRO-E20 - 200 | 301.75 | 200            | 170.9          | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 3.67         |
| 5067-529-020-250 | SDAT50 x PRO-E20 - 250 | 351.75 | 250            | 220.9          | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 3.98         |
| 5067-529-025-070 | SDAT50 x PRO-E25 - 70  | 171.75 | 70             | 45.9           | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 2.95         |
| 5067-529-025-100 | SDAT50 x PRO-E25 - 100 | 201.75 | 100            | 75.9           | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 3.19         |
| 5067-529-025-125 | SDAT50 x PRO-E25 - 125 | 226.75 | 125            | 95.9           | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 3.41         |
| 5067-529-025-150 | SDAT50 x PRO-E25 - 150 | 251.75 | 150            | 120.9          | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 3.61         |
| 5067-529-025-200 | SDAT50 x PRO-E25 - 200 | 301.75 | 200            | 170.9          | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 4.01         |
| 5067-529-025-250 | SDAT50 x PRO-E25 - 250 | 351.75 | 250            | 220.9          | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 4.41         |
| 5067-529-032-070 | SDAT50 x PRO-E32 - 70  | 171.75 | 70             | 45.9           | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 3.06         |
| 5067-529-032-100 | SDAT50 x PRO-E32 - 100 | 201.75 | 100            | 75.9           | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 3.43         |
| 5067-529-032-125 | SDAT50 x PRO-E32 - 125 | 226.75 | 125            | 95.9           | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 3.76         |
| 5067-529-032-150 | SDAT50 x PRO-E32 - 150 | 251.75 | 150            | 120.9          | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 4.08         |
| 5067-529-032-200 | SDAT50 x PRO-E32 - 200 | 301.75 | 200            | 170.9          | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 4.70         |
| 5067-529-032-250 | SDAT50 x PRO-E32 - 250 | 351.75 | 250            | 220.9          | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 5.32         |

**Features:**

- ▶ Superior interchangeability with ER collets.
- ▶ The design of enlarged holder ID hole optimizes the coverage of ER collet, shortens the tool overhanging length, and improves runout accuracy and machining stability.
- ▶ The design of straight parts above and below the thread makes PRO-E tool holders have better contact with clamping nuts to achieve higher runout accuracy.
- ▶ PRO-E nuts without slots reduce the wind shear at high speed.

**Product information:**

- ▶ Balance: G2.5 25,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.

**Standard Accessory: • NUT**

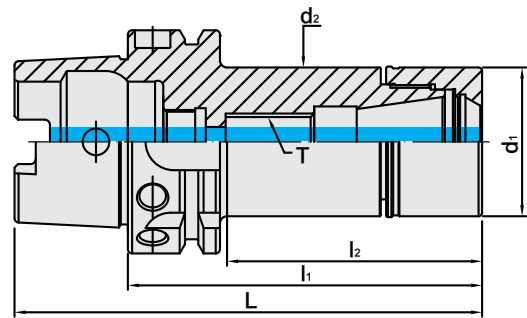
| Collet  | Nut  | Pull Stud | Preset Screw | Spanner | Torque Wrench Adapter (Pull Stud) | Spanner (Pull Stud) |
|---------|------|-----------|--------------|---------|-----------------------------------|---------------------|
|         |      |           |              |         |                                   |                     |
| P.32~55 | P.60 | P.63      | P.64         | P.69    | P.66                              | P.70                |



# HSK / PRO-E COLLET CHUCK

HSK / PRO-E 筒夾式刀桿

(DIN 69893 - 1)



| MODEL NO.        | TYPE                   | L   | l <sub>1</sub> | l <sub>2</sub> | d <sub>1</sub> | d <sub>2</sub> | T           | SIZE RANGE | WEIGHT (KGS) |
|------------------|------------------------|-----|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 5071-529-016-070 | HSK40A x PRO-E16 - 70  | 90  | 70             | 48             | 30             | 30             | -           | 1 ~ 10     | 0.40         |
| 5071-529-016-100 | HSK40A x PRO-E16 - 100 | 120 | 100            | 78             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 0.55         |
| 5071-529-020-070 | HSK40A x PRO-E20 - 70  | 90  | 70             | 49             | 35             | 33.5           | -           | 1 ~ 13     | 0.47         |
| 5071-529-020-100 | HSK40A x PRO-E20 - 100 | 120 | 100            | 79             | 35             | 33.5           | M12 x 1.75P | 1 ~ 13     | 0.63         |
| 5071-529-025-070 | HSK40A x PRO-E25 - 70  | 90  | 70             | 35             | 42             | 42             | -           | 1 ~ 16     | 0.51         |
| 5071-529-025-100 | HSK40A x PRO-E25 - 100 | 120 | 100            | 65             | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 0.80         |
| 5071-529-032-070 | HSK40A x PRO-E32 - 70  | 90  | 70             | 35             | 50             | 50             | -           | 2 ~ 20     | 0.56         |
| 5071-529-032-100 | HSK40A x PRO-E32 - 100 | 120 | 100            | 65             | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 0.98         |
| 5072-529-016-070 | HSK50A x PRO-E16 - 70  | 95  | 70             | 42             | 30             | 30             | -           | 1 ~ 10     | 0.56         |
| 5072-529-016-100 | HSK50A x PRO-E16 - 100 | 125 | 100            | 71             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 0.71         |
| 5072-529-016-125 | HSK50A x PRO-E16 - 125 | 150 | 125            | 96             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 0.84         |
| 5072-529-016-150 | HSK50A x PRO-E16 - 150 | 175 | 150            | 121            | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 0.97         |
| 5072-529-020-070 | HSK50A x PRO-E20 - 70  | 95  | 70             | 42             | 35             | 35             | -           | 1 ~ 13     | 0.62         |
| 5072-529-020-100 | HSK50A x PRO-E20 - 100 | 125 | 100            | 71             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 0.83         |
| 5072-529-020-125 | HSK50A x PRO-E20 - 125 | 150 | 125            | 96             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.01         |
| 5072-529-020-150 | HSK50A x PRO-E20 - 150 | 175 | 150            | 121            | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.19         |
| 5072-529-025-070 | HSK50A x PRO-E25 - 70  | 95  | 70             | 43.5           | 42             | 42             | -           | 1 ~ 16     | 0.71         |
| 5072-529-025-100 | HSK50A x PRO-E25 - 100 | 125 | 100            | 73.5           | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.00         |
| 5072-529-025-125 | HSK50A x PRO-E25 - 125 | 150 | 125            | 98.5           | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.26         |
| 5072-529-025-150 | HSK50A x PRO-E25 - 150 | 175 | 150            | 123.5          | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.52         |
| 5072-529-032-080 | HSK50A x PRO-E32 - 80  | 105 | 80             | 53             | 50             | 50             | -           | 2 ~ 20     | 0.85         |
| 5072-529-032-100 | HSK50A x PRO-E32 - 100 | 125 | 100            | 73             | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 1.11         |
| 5072-529-032-125 | HSK50A x PRO-E32 - 125 | 150 | 125            | 98             | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 1.47         |
| 5072-529-032-150 | HSK50A x PRO-E32 - 150 | 175 | 150            | 123            | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 1.84         |

## Features:

- ▶ Superior interchangeability with ER collets.
- ▶ The design of enlarged holder ID hole optimizes the coverage of ER collet, shortens the tool overhanging length, and improves runout accuracy and machining stability.
- ▶ The design of straight parts above and below the thread makes PRO-E tool holders have better contact with clamping nuts to achieve higher runout accuracy.
- ▶ PRO-E nuts without slots reduce the wind shear at high speed.

## Product information:

- ▶ Balance: G2.5 25,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.

## Standard Accessory: • NUT

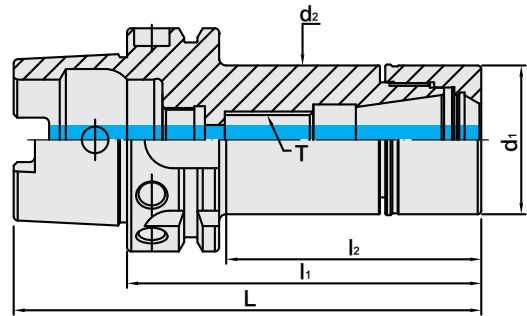
| Collet  | Nut  | Coolant Supply Unit | Key  | Preset Screw | Spanner |
|---------|------|---------------------|------|--------------|---------|
|         |      |                     |      |              |         |
| P.32~55 | P.60 | P.71                | P.71 | P.64         | P.69    |



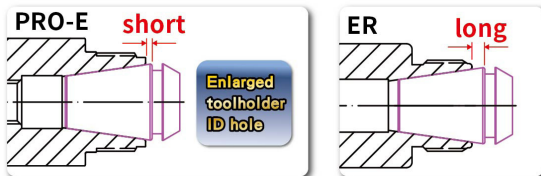
# HSK / PRO-E COLLET CHUCK

HSK / PRO-E 筒夾式刀桿

(DIN 69893 - 1)



| MODEL NO.        | TYPE                   | L   | l <sub>1</sub> | l <sub>2</sub> | d <sub>1</sub> | d <sub>2</sub> | T           | SIZE RANGE | WEIGHT (KGS) |
|------------------|------------------------|-----|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 5073-529-016-070 | HSK63A x PRO-E16 - 70  | 102 | 70             | 39             | 30             | 30             | -           | 1 ~ 10     | 0.82         |
| 5073-529-016-100 | HSK63A x PRO-E16 - 100 | 132 | 100            | 69             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 0.97         |
| 5073-529-016-125 | HSK63A x PRO-E16 - 125 | 157 | 125            | 94             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.09         |
| 5073-529-016-150 | HSK63A x PRO-E16 - 150 | 182 | 150            | 119            | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.22         |
| 5073-529-016-200 | HSK63A x PRO-E16 - 200 | 232 | 200            | 169            | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.47         |
| 5073-529-020-070 | HSK63A x PRO-E20 - 70  | 102 | 70             | 39             | 35             | 35             | -           | 1 ~ 13     | 0.88         |
| 5073-529-020-100 | HSK63A x PRO-E20 - 100 | 132 | 100            | 69             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.08         |
| 5073-529-020-125 | HSK63A x PRO-E20 - 125 | 157 | 125            | 94             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.25         |
| 5073-529-020-150 | HSK63A x PRO-E20 - 150 | 182 | 150            | 119            | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.43         |
| 5073-529-020-200 | HSK63A x PRO-E20 - 200 | 232 | 200            | 169            | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.78         |
| 5073-529-025-070 | HSK63A x PRO-E25 - 70  | 102 | 70             | 41             | 42             | 42             | -           | 1 ~ 16     | 0.97         |
| 5073-529-025-100 | HSK63A x PRO-E25 - 100 | 132 | 100            | 71             | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.26         |
| 5073-529-025-125 | HSK63A x PRO-E25 - 125 | 157 | 125            | 96             | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.51         |
| 5073-529-025-150 | HSK63A x PRO-E25 - 150 | 192 | 150            | 121            | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.77         |
| 5073-529-025-200 | HSK63A x PRO-E25 - 200 | 232 | 200            | 171            | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 2.28         |
| 5073-529-032-080 | HSK63A x PRO-E32 - 80  | 112 | 80             | 51             | 50             | 50             | -           | 2 ~ 20     | 1.01         |
| 5073-529-032-100 | HSK63A x PRO-E32 - 100 | 132 | 100            | 71             | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 1.39         |
| 5073-529-032-125 | HSK63A x PRO-E32 - 125 | 157 | 125            | 96             | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 1.69         |
| 5073-529-032-150 | HSK63A x PRO-E32 - 150 | 182 | 150            | 121            | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 2.02         |
| 5073-529-032-200 | HSK63A x PRO-E32 - 200 | 232 | 200            | 171            | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 2.70         |



**Features:**

- ▶ Superior interchangeability with ER collets.
- ▶ The design of enlarged holder ID hole optimizes the coverage of ER collet, shortens the tool overhanging length, and improves runout accuracy and machining stability.
- ▶ The design of straight parts above and below the thread makes PRO-E tool holders have better contact with clamping nuts to achieve higher runout accuracy.
- ▶ PRO-E nuts without slots reduce the wind shear at high speed.

**Product information:**

- ▶ Balance: G2.5 25,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.

**Standard Accessory: • NUT**

| Collet  | Nut  | Coolant Supply Unit | Key  | Preset Screw | Spanner |
|---------|------|---------------------|------|--------------|---------|
|         |      |                     |      |              |         |
| P.32~55 | P.60 | P.71                | P.71 | P.64         | P.69    |

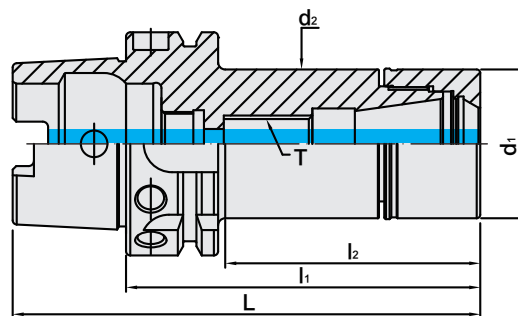




# HSK / PRO-E COLLET CHUCK

HSK / PRO-E 筒夾式刀桿

(DIN 69893 - 1)



| MODEL NO.        | TYPE                   | L   | l <sub>1</sub> | l <sub>2</sub> | d <sub>1</sub> | d <sub>2</sub> | T           | SIZE RANGE | WEIGHT (KGS) |
|------------------|------------------------|-----|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 5073-529-016-070 | HSK63A x PRO-E16 - 70  | 102 | 70             | 39             | 30             | 30             | -           | 1 ~ 10     | 0.82         |
| 5073-529-016-100 | HSK63A x PRO-E16 - 100 | 132 | 100            | 69             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 0.97         |
| 5073-529-016-125 | HSK63A x PRO-E16 - 125 | 157 | 125            | 94             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.09         |
| 5073-529-016-150 | HSK63A x PRO-E16 - 150 | 182 | 150            | 119            | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.22         |
| 5073-529-016-200 | HSK63A x PRO-E16 - 200 | 232 | 200            | 169            | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.47         |
| 5073-529-020-070 | HSK63A x PRO-E20 - 70  | 102 | 70             | 39             | 35             | 35             | -           | 1 ~ 13     | 0.88         |
| 5073-529-020-100 | HSK63A x PRO-E20 - 100 | 132 | 100            | 69             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.08         |
| 5073-529-020-125 | HSK63A x PRO-E20 - 125 | 157 | 125            | 94             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.25         |
| 5073-529-020-150 | HSK63A x PRO-E20 - 150 | 182 | 150            | 119            | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.43         |
| 5073-529-020-200 | HSK63A x PRO-E20 - 200 | 232 | 200            | 169            | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.78         |
| 5073-529-025-070 | HSK63A x PRO-E25 - 70  | 102 | 70             | 41             | 42             | 42             | -           | 1 ~ 16     | 0.97         |
| 5073-529-025-100 | HSK63A x PRO-E25 - 100 | 132 | 100            | 71             | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.26         |
| 5073-529-025-125 | HSK63A x PRO-E25 - 125 | 157 | 125            | 96             | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.51         |
| 5073-529-025-150 | HSK63A x PRO-E25 - 150 | 192 | 150            | 121            | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.77         |
| 5073-529-025-200 | HSK63A x PRO-E25 - 200 | 232 | 200            | 171            | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 2.28         |
| 5073-529-032-080 | HSK63A x PRO-E32 - 80  | 112 | 80             | 51             | 50             | 50             | -           | 2 ~ 20     | 1.01         |
| 5073-529-032-100 | HSK63A x PRO-E32 - 100 | 132 | 100            | 71             | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 1.39         |
| 5073-529-032-125 | HSK63A x PRO-E32 - 125 | 157 | 125            | 96             | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 1.69         |
| 5073-529-032-150 | HSK63A x PRO-E32 - 150 | 182 | 150            | 121            | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 2.02         |
| 5073-529-032-200 | HSK63A x PRO-E32 - 200 | 232 | 200            | 171            | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 2.70         |



**Features:**

- ▶ Superior interchangeability with ER collets.
- ▶ The design of enlarged holder ID hole optimizes the coverage of ER collet, shortens the tool overhanging length, and improves runout accuracy and machining stability.
- ▶ The design of straight parts above and below the thread makes PRO-E tool holders have better contact with clamping nuts to achieve higher runout accuracy.
- ▶ PRO-E nuts without slots reduce the wind shear at high speed.

**Product information:**

- ▶ Balance: G2.5 25,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.

**Standard Accessory: • NUT**

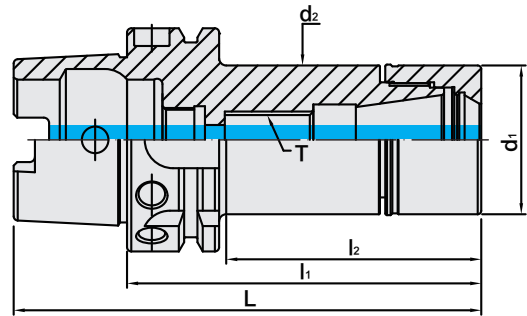
| Collet  | Nut  | Coolant Supply Unit | Key  | Preset Screw | Spanner |
|---------|------|---------------------|------|--------------|---------|
|         |      |                     |      |              |         |
| P.32~55 | P.60 | P.71                | P.71 | P.64         | P.69    |



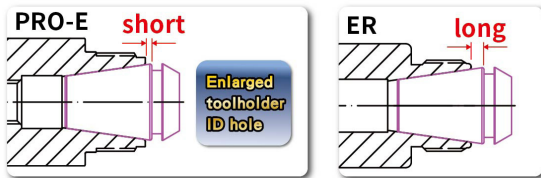
# HSK / PRO-E COLLET CHUCK

HSK / PRO-E 筒夾式刀桿

(DIN 69893 - 1)



| MODEL NO.        | TYPE                   | L   | l <sub>1</sub> | l <sub>2</sub> | d <sub>1</sub> | d <sub>2</sub> | T           | SIZE RANGE | WEIGHT (KGS) |
|------------------|------------------------|-----|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 5074-529-016-070 | HSK80A x PRO-E16 - 70  | 110 | 70             | 39             | 30             | 30             | -           | 1 ~ 10     | 1.25         |
| 5074-529-016-100 | HSK80A x PRO-E16 - 100 | 140 | 100            | 69             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.40         |
| 5074-529-016-125 | HSK80A x PRO-E16 - 125 | 165 | 125            | 94             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.52         |
| 5074-529-016-150 | HSK80A x PRO-E16 - 150 | 190 | 150            | 119            | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.64         |
| 5074-529-016-200 | HSK80A x PRO-E16 - 200 | 240 | 200            | 169            | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.88         |
| 5074-529-020-070 | HSK80A x PRO-E20 - 70  | 110 | 70             | 39             | 35             | 35             | -           | 1 ~ 13     | 1.31         |
| 5074-529-020-100 | HSK80A x PRO-E20 - 100 | 140 | 100            | 69             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.52         |
| 5074-529-020-125 | HSK80A x PRO-E20 - 125 | 165 | 125            | 94             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.69         |
| 5074-529-020-150 | HSK80A x PRO-E20 - 150 | 190 | 150            | 119            | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.86         |
| 5074-529-020-200 | HSK80A x PRO-E20 - 200 | 240 | 200            | 169            | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 2.20         |
| 5074-529-025-070 | HSK80A x PRO-E25 - 70  | 110 | 70             | 39             | 42             | 42             | -           | 1 ~ 16     | 1.41         |
| 5074-529-025-100 | HSK80A x PRO-E25 - 100 | 140 | 100            | 69             | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.69         |
| 5074-529-025-125 | HSK80A x PRO-E25 - 125 | 165 | 125            | 94             | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.94         |
| 5074-529-025-150 | HSK80A x PRO-E25 - 150 | 190 | 150            | 119            | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 2.17         |
| 5074-529-025-200 | HSK80A x PRO-E25 - 200 | 240 | 200            | 169            | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 2.69         |
| 5074-529-032-080 | HSK80A x PRO-E32 - 80  | 120 | 80             | 49             | 50             | 50             | -           | 2 ~ 20     | 1.63         |
| 5074-529-032-100 | HSK80A x PRO-E32 - 100 | 140 | 100            | 69             | 50             | 50             | -           | 2 ~ 20     | 1.89         |
| 5074-529-032-125 | HSK80A x PRO-E32 - 125 | 165 | 125            | 94             | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 2.24         |
| 5074-529-032-150 | HSK80A x PRO-E32 - 150 | 190 | 150            | 119            | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 2.60         |
| 5074-529-032-200 | HSK80A x PRO-E32 - 200 | 240 | 200            | 169            | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 3.33         |



**Features:**

- ▶ Superior interchangeability with ER collets.
- ▶ The design of enlarged holder ID hole optimizes the coverage of ER collet, shortens the tool overhanging length, and improves runout accuracy and machining stability.
- ▶ The design of straight parts above and below the thread makes PRO-E tool holders have better contact with clamping nuts to achieve higher runout accuracy.
- ▶ PRO-E nuts without slots reduce the wind shear at high speed.

**Product information:**

- ▶ Balance: G2.5 25,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.

**Standard Accessory: • NUT**

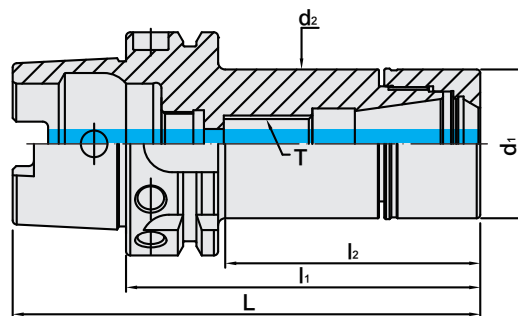
| Collet  | Nut  | Coolant Supply Unit | Key  | Preset Screw | Spanner |
|---------|------|---------------------|------|--------------|---------|
|         |      |                     |      |              |         |
| P.32~55 | P.60 | P.71                | P.71 | P.64         | P.69    |



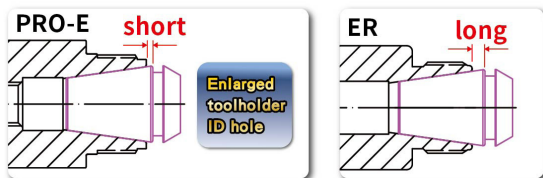
# HSK / PRO-E COLLET CHUCK

HSK / PRO-E 筒夾式刀桿

(DIN 69893 - 1)



| MODEL NO.        | TYPE                   | L   | l <sub>1</sub> | l <sub>2</sub> | d <sub>1</sub> | d <sub>2</sub> | T           | SIZE RANGE | WEIGHT (KGS) |
|------------------|------------------------|-----|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 5074-529-016-070 | HSK80A x PRO-E16 - 70  | 110 | 70             | 39             | 30             | 30             | -           | 1 ~ 10     | 1.25         |
| 5074-529-016-100 | HSK80A x PRO-E16 - 100 | 140 | 100            | 69             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.40         |
| 5074-529-016-125 | HSK80A x PRO-E16 - 125 | 165 | 125            | 94             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.52         |
| 5074-529-016-150 | HSK80A x PRO-E16 - 150 | 190 | 150            | 119            | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.64         |
| 5074-529-016-200 | HSK80A x PRO-E16 - 200 | 240 | 200            | 169            | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.88         |
| 5074-529-020-070 | HSK80A x PRO-E20 - 70  | 110 | 70             | 39             | 35             | 35             | -           | 1 ~ 13     | 1.31         |
| 5074-529-020-100 | HSK80A x PRO-E20 - 100 | 140 | 100            | 69             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.52         |
| 5074-529-020-125 | HSK80A x PRO-E20 - 125 | 165 | 125            | 94             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.69         |
| 5074-529-020-150 | HSK80A x PRO-E20 - 150 | 190 | 150            | 119            | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.86         |
| 5074-529-020-200 | HSK80A x PRO-E20 - 200 | 240 | 200            | 169            | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 2.20         |
| 5074-529-025-070 | HSK80A x PRO-E25 - 70  | 110 | 70             | 39             | 42             | 42             | -           | 1 ~ 16     | 1.41         |
| 5074-529-025-100 | HSK80A x PRO-E25 - 100 | 140 | 100            | 69             | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.69         |
| 5074-529-025-125 | HSK80A x PRO-E25 - 125 | 165 | 125            | 94             | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.94         |
| 5074-529-025-150 | HSK80A x PRO-E25 - 150 | 190 | 150            | 119            | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 2.17         |
| 5074-529-025-200 | HSK80A x PRO-E25 - 200 | 240 | 200            | 169            | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 2.69         |
| 5074-529-032-080 | HSK80A x PRO-E32 - 80  | 120 | 80             | 49             | 50             | 50             | -           | 2 ~ 20     | 1.63         |
| 5074-529-032-100 | HSK80A x PRO-E32 - 100 | 140 | 100            | 69             | 50             | 50             | -           | 2 ~ 20     | 1.89         |
| 5074-529-032-125 | HSK80A x PRO-E32 - 125 | 165 | 125            | 94             | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 2.24         |
| 5074-529-032-150 | HSK80A x PRO-E32 - 150 | 190 | 150            | 119            | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 2.60         |
| 5074-529-032-200 | HSK80A x PRO-E32 - 200 | 240 | 200            | 169            | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 3.33         |



**Features:**

- ▶ Superior interchangeability with ER collets.
- ▶ The design of enlarged holder ID hole optimizes the coverage of ER collet, shortens the tool overhanging length, and improves runout accuracy and machining stability.
- ▶ The design of straight parts above and below the thread makes PRO-E tool holders have better contact with clamping nuts to achieve higher runout accuracy.
- ▶ PRO-E nuts without slots reduce the wind shear at high speed.

**Product information:**

- ▶ Balance: G2.5 25,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.

**Standard Accessory: • NUT**

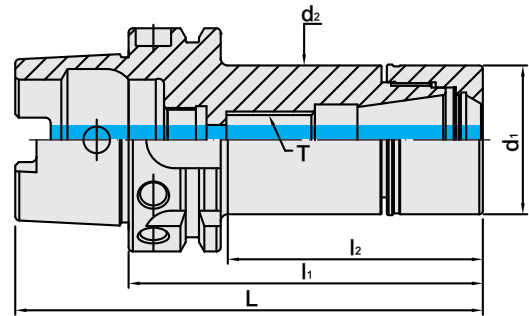
| Collet  | Nut  | Coolant Supply Unit | Key  | Preset Screw | Spanner |
|---------|------|---------------------|------|--------------|---------|
|         |      |                     |      |              |         |
| P.32~55 | P.60 | P.71                | P.71 | P.64         | P.69    |



# HSK / PRO-E COLLET CHUCK

HSK / PRO-E 筒夾式刀桿

(DIN 69893 - 1)



| MODEL NO.        | TYPE                    | L   | l <sub>1</sub> | l <sub>2</sub> | d <sub>1</sub> | d <sub>2</sub> | T           | SIZE RANGE | WEIGHT (KGS) |
|------------------|-------------------------|-----|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 5075-529-016-100 | HSK100A x PRO-E16 - 100 | 150 | 100            | 61             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 2.29         |
| 5075-529-016-125 | HSK100A x PRO-E16 - 125 | 175 | 125            | 86             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 2.41         |
| 5075-529-016-150 | HSK100A x PRO-E16 - 150 | 200 | 150            | 111            | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 2.52         |
| 5075-529-016-200 | HSK100A x PRO-E16 - 200 | 250 | 200            | 161            | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 2.75         |
| 5075-529-020-100 | HSK100A x PRO-E20 - 100 | 150 | 100            | 61             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 2.40         |
| 5075-529-020-125 | HSK100A x PRO-E20 - 125 | 175 | 125            | 86             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 2.57         |
| 5075-529-020-150 | HSK100A x PRO-E20 - 150 | 200 | 150            | 111            | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 2.73         |
| 5075-529-020-200 | HSK100A x PRO-E20 - 200 | 250 | 200            | 161            | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 3.06         |
| 5075-529-025-100 | HSK100A x PRO-E25 - 100 | 150 | 100            | 61             | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 2.58         |
| 5075-529-025-125 | HSK100A x PRO-E25 - 125 | 175 | 125            | 86             | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 2.81         |
| 5075-529-025-150 | HSK100A x PRO-E25 - 150 | 200 | 150            | 111            | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 3.06         |
| 5075-529-025-200 | HSK100A x PRO-E25 - 200 | 250 | 200            | 161            | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 3.55         |
| 5075-529-032-100 | HSK100A x PRO-E32 - 100 | 150 | 100            | 61             | 50             | 50             | -           | 2 ~ 20     | 2.76         |
| 5075-529-032-125 | HSK100A x PRO-E32 - 125 | 175 | 125            | 86             | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 3.09         |
| 5075-529-032-150 | HSK100A x PRO-E32 - 150 | 200 | 150            | 111            | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 3.46         |
| 5075-529-032-200 | HSK100A x PRO-E32 - 200 | 250 | 200            | 161            | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 4.18         |
| 5076-529-016-100 | HSK125A x PRO-E16 - 100 | 163 | 100            | 41             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 3.91         |
| 5076-529-016-125 | HSK125A x PRO-E16 - 125 | 188 | 125            | 66             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 4.03         |
| 5076-529-016-150 | HSK125A x PRO-E16 - 150 | 213 | 150            | 91             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 4.13         |
| 5076-529-016-200 | HSK125A x PRO-E16 - 200 | 263 | 200            | 141            | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 4.34         |
| 5076-529-020-100 | HSK125A x PRO-E20 - 100 | 163 | 100            | 44             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 3.97         |
| 5076-529-020-125 | HSK125A x PRO-E20 - 125 | 188 | 125            | 69             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 4.13         |
| 5076-529-020-150 | HSK125A x PRO-E20 - 150 | 213 | 150            | 94             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 4.29         |
| 5076-529-020-200 | HSK125A x PRO-E20 - 200 | 263 | 200            | 144            | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 4.60         |
| 5076-529-025-100 | HSK125A x PRO-E25 - 100 | 163 | 100            | 47             | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 4.07         |
| 5076-529-025-125 | HSK125A x PRO-E25 - 125 | 188 | 125            | 72             | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 4.31         |
| 5076-529-025-150 | HSK125A x PRO-E25 - 150 | 213 | 150            | 97             | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 4.55         |
| 5076-529-025-200 | HSK125A x PRO-E25 - 200 | 263 | 200            | 147            | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 5.02         |
| 5076-529-032-100 | HSK125A x PRO-E32 - 100 | 163 | 100            | 61             | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 4.02         |
| 5076-529-032-125 | HSK125A x PRO-E32 - 125 | 188 | 125            | 86             | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 4.41         |
| 5076-529-032-150 | HSK125A x PRO-E32 - 150 | 213 | 150            | 111            | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 4.74         |
| 5076-529-032-200 | HSK125A x PRO-E32 - 200 | 263 | 200            | 161            | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 5.43         |

**Standard Accessory: • NUT**

| Collet  | Nut  | Coolant Supply Unit | Key  | Preset Screw | Spanner |
|---------|------|---------------------|------|--------------|---------|
|         |      |                     |      |              |         |
| P.32~55 | P.60 | P.71                | P.71 | P.64         | P.69    |



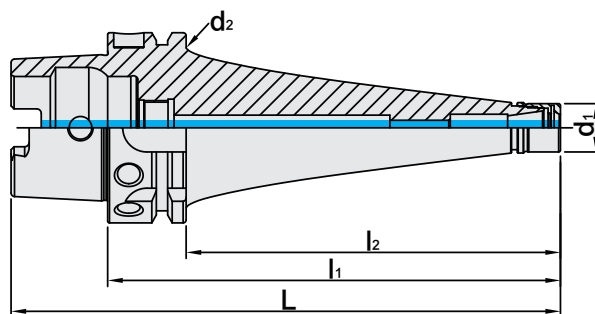


# HSK / PRO-E COLLET CHUCK M TYPE

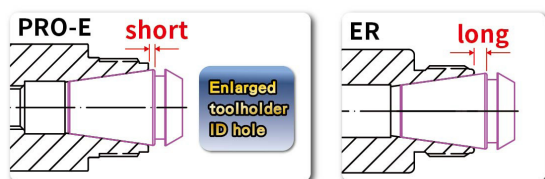


HSK / PRO-E 筒夾式刀桿

(DIN 69893 - 1)



| MODEL NO.        | TYPE                       | L   | l <sub>1</sub> | l <sub>2</sub> | d <sub>1</sub> | d <sub>2</sub> | T         | SIZE RANGE | WEIGHT (KGS) |
|------------------|----------------------------|-----|----------------|----------------|----------------|----------------|-----------|------------|--------------|
| 5073-586-011-150 | HSK63A x PRO-E11M - 150CUL | 182 | 150            | 124            | 16             | 53             | M6 x 1.0P | 2 ~ 7      | 1.28         |
| 5073-586-011-200 | HSK63A x PRO-E11M - 200CUL | 232 | 200            | 174            | 16             | 53             | M6 x 1.0P | 2 ~ 7      | 1.48         |



**Features:**

- ▶ Superior interchangeability with ER collets.
- ▶ Assembled with ER spring collet (15µm, 10µm, 5µm), ERS metallic sealed collet (10µm, 5µm, 3µm) and ERS coolant FOD collet (10µm, 5µm, 3µm).
- ▶ The design of enlarged holder ID hole optimizes the coverage of ER collet, shortens the tool overhanging length, and improves runout accuracy and machining stability.
- ▶ The design of straight parts above and below the thread makes PRO-E tool holders have better contact with clamping nuts to achieve higher runout accuracy.
- ▶ PRO-E nuts without slots reduce the wind shear at high speed.

**Product information:**

- ▶ Balance: G2.5 25,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.

**Standard Accessory: • NUT**

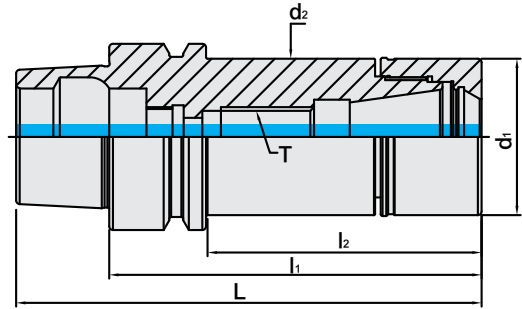
| Collet  | Nut  | Coolant Supply Unit | Key  | Preset Screw | Spanner |
|---------|------|---------------------|------|--------------|---------|
| P.32~55 | P.60 | P.71                | P.71 | P.64         | P.69    |



# HSK / PRO-E COLLET CHUCK

HSK / PRO-E 筒夾式刀桿

(DIN 69893 - 5)



| MODEL NO.        | TYPE                   | L   | l <sub>1</sub> | l <sub>2</sub> | d <sub>1</sub> | d <sub>2</sub> | T           | SIZE RANGE | WEIGHT (KGS) |
|------------------|------------------------|-----|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 5097-529-016-060 | HSK25E x PRO-E16 - 60  | 73  | 60             | 49             | 30             | 30             | -           | 1 ~ 10     | 0.22         |
| 5097-529-016-065 | HSK32E x PRO-E16 - 65  | 81  | 65             | 44             | 30             | 30             | -           | 1 ~ 10     | 0.29         |
| 5099-529-016-060 | HSK40E x PRO-E16 - 60  | 80  | 60             | 39             | 30             | 30             | -           | 1 ~ 10     | 0.37         |
| 5099-529-020-070 | HSK40E x PRO-E20 - 70  | 90  | 70             | 49             | 27.5           | 34             | M12 x 1.75P | 1 ~ 13     | 0.50         |
| 5099-529-020-100 | HSK40E x PRO-E20 - 100 | 120 | 100            | 79             | 35             | 34             | M12 x 1.75P | 1 ~ 13     | 0.68         |
| 5099-529-020-125 | HSK40E x PRO-E20 - 125 | 145 | 125            | 104            | 35             | 34             | M12 x 1.75P | 1 ~ 13     | 0.85         |
| 5099-529-025-070 | HSK40E x PRO-E25 - 70  | 90  | 70             | 49.5           | 42             | 42             | -           | 1 ~ 16     | 0.53         |
| 5099-529-025-100 | HSK40E x PRO-E25 - 100 | 120 | 100            | 79.5           | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 0.82         |
| 5099-529-025-125 | HSK40E x PRO-E25 - 125 | 145 | 125            | 104.5          | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.08         |
| 5099-529-025-150 | HSK40E x PRO-E25 - 150 | 170 | 150            | 129.5          | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.34         |
| 5099-529-032-070 | HSK40E x PRO-E32 - 70  | 90  | 70             | 49.5           | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 0.57         |
| 5099-529-032-100 | HSK40E x PRO-E32 - 100 | 120 | 100            | 79.5           | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 1.00         |
| 5100-584-011-055 | HSK50E x PRO-E11M - 55 | 80  | 55             | 29             | 16             | 16             | M6 x 1.0P   | 2 ~ 7      | 0.44         |
| 5100-584-011-080 | HSK50E x PRO-E11M - 80 | 105 | 80             | 54             | 16             | 16             | M6 x 1.0P   | 2 ~ 7      | 0.48         |
| 5100-529-016-070 | HSK50E x PRO-E16 - 70  | 95  | 70             | 41             | 30             | 30             | -           | 1 ~ 10     | 0.60         |
| 5100-529-016-100 | HSK50E x PRO-E16 - 100 | 125 | 100            | 71             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 0.75         |
| 5100-529-020-070 | HSK50E x PRO-E20 - 70  | 95  | 70             | 41             | 35             | 35             | -           | 1 ~ 13     | 0.66         |
| 5100-529-020-100 | HSK50E x PRO-E20 - 100 | 125 | 100            | 71             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 0.86         |
| 5100-529-020-125 | HSK50E x PRO-E20 - 125 | 150 | 125            | 96             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.04         |
| 5100-529-020-150 | HSK50E x PRO-E20 - 150 | 175 | 150            | 121            | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.22         |
| 5100-529-025-070 | HSK50E x PRO-E25 - 70  | 95  | 70             | 43.5           | 42             | 42             | -           | 1 ~ 16     | 0.70         |
| 5100-529-025-100 | HSK50E x PRO-E25 - 100 | 125 | 100            | 73.5           | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 0.99         |
| 5100-529-032-070 | HSK50E x PRO-E32 - 70  | 95  | 70             | 43.5           | 50             | 42             | -           | 2 ~ 20     | 0.76         |
| 5100-529-032-100 | HSK50E x PRO-E32 - 100 | 125 | 100            | 73             | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 1.13         |
| 5100-529-032-125 | HSK50E x PRO-E32 - 125 | 150 | 125            | 98             | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 1.50         |
| 5100-529-032-150 | HSK50E x PRO-E32 - 150 | 175 | 150            | 123            | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 1.87         |

**Features:**

- ▶ Superior interchangeability with ER collets.
- ▶ The design of enlarged holder ID hole optimizes the coverage of ER collet, shortens the tool overhanging length, and improves runout accuracy and machining stability.
- ▶ The design of straight parts above and below the thread makes PRO-E tool holders have better contact with clamping nuts to achieve higher runout accuracy.
- ▶ PRO-E nuts without slots reduce the wind shear at high speed

**Product information:**

- ▶ Balance: G2.5 25,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.

**Standard Accessory: • NUT**

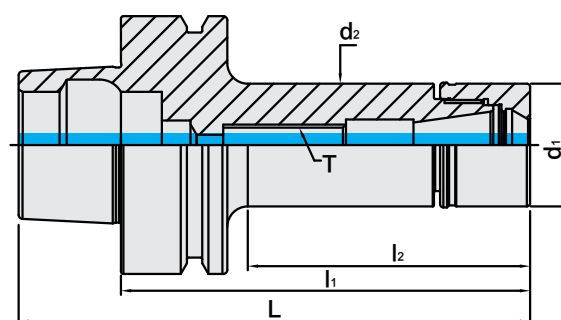
| Collet  | Nut  | Coolant Supply Unit | Key  | Preset Screw | Spanner |
|---------|------|---------------------|------|--------------|---------|
|         |      |                     |      |              |         |
| P.32~55 | P.60 | P.71                | P.71 | P.64         | P.69    |



# HSK / PRO-E COLLET CHUCK

HSK / PRO-E 筒夾式刀桿

(DIN 69893 - 6)



| MODEL NO.        | TYPE                   | L   | l <sub>1</sub> | l <sub>2</sub> | d <sub>1</sub> | d <sub>2</sub> | T           | SIZE RANGE | WEIGHT (KGS) |
|------------------|------------------------|-----|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 5103-529-016-070 | HSK63F x PRO-E16 - 70  | 95  | 70             | 39             | 30             | 30             | -           | 1 ~ 10     | 0.82         |
| 5103-529-016-100 | HSK63F x PRO-E16 - 100 | 125 | 100            | 69             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 0.97         |
| 5103-529-016-125 | HSK63F x PRO-E16 - 125 | 150 | 125            | 94             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.10         |
| 5103-529-020-070 | HSK63F x PRO-E20 - 70  | 95  | 70             | 39             | 35             | 35             | -           | 1 ~ 13     | 0.88         |
| 5103-529-020-100 | HSK63F x PRO-E20 - 100 | 125 | 100            | 69             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.09         |
| 5103-529-020-125 | HSK63F x PRO-E20 - 125 | 150 | 125            | 94             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.27         |
| 5103-529-020-150 | HSK63F x PRO-E20 - 150 | 175 | 150            | 119            | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.45         |
| 5103-529-025-070 | HSK63F x PRO-E25 - 70  | 95  | 70             | 41             | 42             | 42             | -           | 1 ~ 16     | 0.97         |
| 5103-529-025-100 | HSK63F x PRO-E25 - 100 | 125 | 100            | 71             | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.26         |
| 5103-529-025-125 | HSK63F x PRO-E25 - 125 | 150 | 125            | 96             | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.52         |
| 5103-529-032-070 | HSK63F x PRO-E32 - 70  | 95  | 70             | 41             | 50             | 50             | -           | 2 ~ 20     | 1.00         |
| 5103-529-032-100 | HSK63F x PRO-E32 - 100 | 125 | 100            | 71             | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 1.38         |
| 5103-529-032-125 | HSK63F x PRO-E32 - 125 | 150 | 125            | 96             | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 1.70         |
| 5103-529-032-150 | HSK63F x PRO-E32 - 150 | 175 | 150            | 121            | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 2.04         |

**Features:**

- ▶ Superior interchangeability with ER collets.
- ▶ The design of enlarged holder ID hole optimizes the coverage of ER collet, shortens the tool overhanging length, and improves runout accuracy and machining stability.
- ▶ The design of straight parts above and below the thread makes PRO-E tool holders have better contact with clamping nuts to achieve higher runout accuracy.
- ▶ PRO-E nuts without slots reduce the wind shear at high speed

**Product information:**

- ▶ Balance: G2.5 25,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.

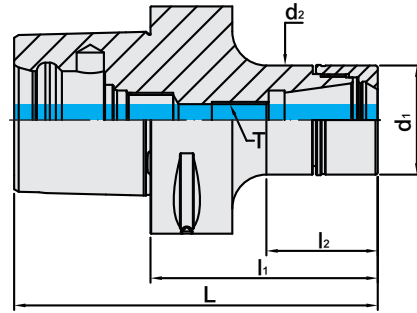
**Standard Accessory: • NUT**

| Collet  | Nut  | Coolant Supply Unit | Key  | Preset Screw | Spanner |
|---------|------|---------------------|------|--------------|---------|
|         |      |                     |      |              |         |
| P.32~55 | P.60 | P.71                | P.71 | P.64         | P.69    |



# PSC / PRO-E COLLET CHUCK

## PSC / PRO-E 筒夾式刀桿



| MODEL NO.        | TYPE                     | L   | l <sub>1</sub> | l <sub>2</sub> | d <sub>1</sub> | d <sub>2</sub> | -           | SIZE RANGE | WEIGHT (KGS) |
|------------------|--------------------------|-----|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 5133-529-016-070 | PSC40-ID x PRO-E16 - 70  | 94  | 70             | 47             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 0.47         |
| 5133-529-016-100 | PSC40-ID x PRO-E16 - 100 | 124 | 100            | 77             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 0.60         |
| 5133-529-020-070 | PSC40-ID x PRO-E20 - 70  | 94  | 70             | 47.5           | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 0.54         |
| 5133-529-020-100 | PSC40-ID x PRO-E20 - 100 | 124 | 100            | 77.5           | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 0.73         |
| 5133-529-025-070 | PSC40-ID x PRO-E25 - 70  | 94  | 70             | 49             | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 0.64         |
| 5133-529-025-100 | PSC40-ID x PRO-E25 - 100 | 124 | 100            | 79             | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 0.93         |
| 5133-529-032-070 | PSC40-ID x PRO-E32 - 70  | 94  | 70             | 46             | 50             | 50             | -           | 2 ~ 20     | 0.73         |
| 5133-529-032-100 | PSC40-ID x PRO-E32 - 100 | 124 | 100            | 76             | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 1.12         |
| 5133-529-032-125 | PSC40-ID x PRO-E32 - 125 | 149 | 125            | 101            | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 1.48         |
| 5133-529-032-150 | PSC40-ID x PRO-E32 - 150 | 174 | 150            | 126            | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 1.83         |
| 5134-529-016-070 | PSC50-ID x PRO-E16 - 70  | 100 | 70             | 45             | 30             | 30             | -           | 1 ~ 10     | 0.63         |
| 5134-529-016-100 | PSC50-ID x PRO-E16 - 100 | 130 | 100            | 75             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 0.78         |
| 5134-529-016-125 | PSC50-ID x PRO-E16 - 125 | 155 | 125            | 100            | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 0.88         |
| 5134-529-016-150 | PSC50-ID x PRO-E16 - 150 | 180 | 150            | 125            | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 0.99         |
| 5134-529-020-070 | PSC50-ID x PRO-E20 - 70  | 100 | 70             | 47             | 35             | 35             | -           | 1 ~ 13     | 0.70         |
| 5134-529-020-100 | PSC50-ID x PRO-E20 - 100 | 130 | 100            | 77             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 0.90         |
| 5134-529-020-125 | PSC50-ID x PRO-E20 - 125 | 155 | 125            | 102            | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.05         |
| 5134-529-020-150 | PSC50-ID x PRO-E20 - 150 | 180 | 150            | 127            | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.21         |
| 5134-529-025-070 | PSC50-ID x PRO-E25 - 70  | 100 | 70             | 49             | 42             | 42             | -           | 1 ~ 16     | 0.80         |
| 5134-529-025-100 | PSC50-ID x PRO-E25 - 100 | 130 | 100            | 79             | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.09         |
| 5134-529-025-125 | PSC50-ID x PRO-E25 - 125 | 155 | 125            | 104            | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.32         |
| 5134-529-025-150 | PSC50-ID x PRO-E25 - 150 | 180 | 150            | 129            | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.56         |
| 5134-529-032-070 | PSC50-ID x PRO-E32 - 70  | 100 | 70             | 50             | 50             | 50             | -           | 2 ~ 20     | 0.90         |
| 5134-529-032-100 | PSC50-ID x PRO-E32 - 100 | 130 | 100            | 80             | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 1.32         |
| 5134-529-032-125 | PSC50-ID x PRO-E32 - 125 | 155 | 125            | 105            | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 1.66         |
| 5134-529-032-150 | PSC50-ID x PRO-E32 - 150 | 180 | 150            | 130            | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 2.00         |

**Features:**

- ▶ Superior interchangeability with ER collets.
- ▶ The design of enlarged holder ID hole optimizes the coverage of ER collet, shortens the tool overhanging length, and improves runout accuracy and machining stability.
- ▶ The design of straight parts above and below the thread makes PRO-E tool holders have better contact with clamping nuts to achieve higher runout accuracy.
- ▶ PRO-E nuts without slots reduce the wind shear at high speed.

**Product information:**

- ▶ Balance: G2.5 25,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.

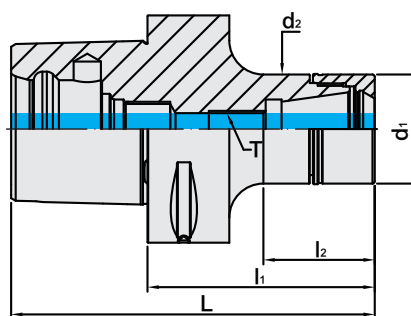
**Standard Accessory: • NUT**

| Collet  | Nut  | Coolant Supply Unit | Preset Screw | Spanner | KEY  |
|---------|------|---------------------|--------------|---------|------|
|         |      |                     |              |         |      |
| P.32~55 | P.60 | P.71                | P.64         | P.69    | P.71 |

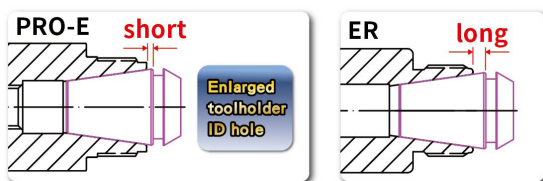


# PSC / PRO-E COLLET CHUCK

## PSC / PRO-E 筒夾式刀桿



| MODEL NO.        | TYPE                     | L   | l <sub>1</sub> | l <sub>2</sub> | d <sub>1</sub> | d <sub>2</sub> | T           | SIZE RANGE | WEIGHT (KGS) |
|------------------|--------------------------|-----|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 5135-529-016-070 | PSC63-ID x PRO-E16 - 70  | 108 | 70             | 43             | 30             | 30             | -           | 1 ~ 10     | 0.94         |
| 5135-529-016-100 | PSC63-ID x PRO-E16 - 100 | 138 | 100            | 73             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.09         |
| 5135-529-016-125 | PSC63-ID x PRO-E16 - 125 | 163 | 125            | 98             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.18         |
| 5135-529-016-150 | PSC63-ID x PRO-E16 - 150 | 188 | 150            | 123            | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.26         |
| 5135-529-016-200 | PSC63-ID x PRO-E16 - 200 | 238 | 200            | 173            | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 1.44         |
| 5135-529-020-070 | PSC63-ID x PRO-E20 - 70  | 108 | 70             | 43             | 35             | 35             | -           | 1 ~ 13     | 1.00         |
| 5135-529-020-100 | PSC63-ID x PRO-E20 - 100 | 138 | 100            | 70             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.21         |
| 5135-529-020-125 | PSC63-ID x PRO-E20 - 125 | 163 | 125            | 95             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.35         |
| 5135-529-020-150 | PSC63-ID x PRO-E20 - 150 | 188 | 150            | 120            | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.49         |
| 5135-529-020-200 | PSC63-ID x PRO-E20 - 200 | 238 | 200            | 170            | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 1.76         |
| 5135-529-025-070 | PSC63-ID x PRO-E25 - 70  | 108 | 70             | 45             | 42             | 42             | -           | 1 ~ 16     | 1.11         |
| 5135-529-025-100 | PSC63-ID x PRO-E25 - 100 | 138 | 100            | 75             | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.39         |
| 5135-529-025-125 | PSC63-ID x PRO-E25 - 125 | 163 | 125            | 100            | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.60         |
| 5135-529-025-150 | PSC63-ID x PRO-E25 - 150 | 188 | 150            | 125            | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 1.82         |
| 5135-529-025-200 | PSC63-ID x PRO-E25 - 200 | 238 | 200            | 175            | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 2.26         |
| 5135-529-032-070 | PSC63-ID x PRO-E32 - 70  | 108 | 70             | 45             | 50             | 50             | -           | 2 ~ 20     | 1.21         |
| 5135-529-032-100 | PSC63-ID x PRO-E32 - 100 | 138 | 100            | 75             | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 1.61         |
| 5135-529-032-125 | PSC63-ID x PRO-E32 - 125 | 163 | 125            | 100            | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 1.94         |
| 5135-529-032-150 | PSC63-ID x PRO-E32 - 150 | 188 | 150            | 125            | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 2.27         |
| 5135-529-032-200 | PSC63-ID x PRO-E32 - 200 | 238 | 200            | 175            | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 2.93         |



### Features:

- ▶ Superior interchangeability with ER collets.
- ▶ The design of enlarged holder ID hole optimizes the coverage of ER collet, shortens the tool overhanging length, and improves runout accuracy and machining stability.
- ▶ The design of straight parts above and below the thread makes PRO-E tool holders have better contact with clamping nuts to achieve higher runout accuracy.
- ▶ PRO-E nuts without slots reduce the wind shear at high speed.

### Product information:

- ▶ Balance: G2.5 25,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.

### Standard Accessory: • NUT

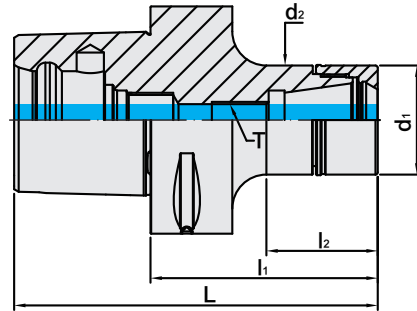
| Collet  | Nut  | Coolant Supply Unit | Preset Screw | Spanner | KEY  |
|---------|------|---------------------|--------------|---------|------|
|         |      |                     |              |         |      |
| P.32~55 | P.60 | P.71                | P.64         | P.69    | P.71 |



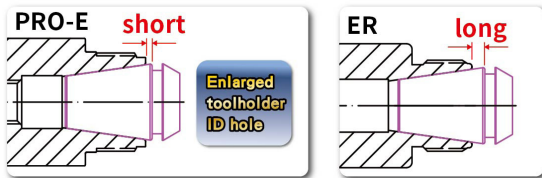


# PSC / PRO-E COLLET CHUCK

## PSC / PRO-E 筒夾式刀桿



| MODEL NO.        | TYPE                     | L   | l <sub>1</sub> | l <sub>2</sub> | d <sub>1</sub> | d <sub>2</sub> | T           | SIZE RANGE | WEIGHT (KGS) |
|------------------|--------------------------|-----|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 5136-529-016-100 | PSC80-ID x PRO-E16 - 100 | 148 | 100            | 65             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 2.00         |
| 5136-529-016-125 | PSC80-ID x PRO-E16 - 125 | 173 | 125            | 90             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 2.13         |
| 5136-529-016-150 | PSC80-ID x PRO-E16 - 150 | 198 | 150            | 110            | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 2.27         |
| 5136-529-016-200 | PSC80-ID x PRO-E16 - 200 | 248 | 200            | 160            | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 2.52         |
| 5136-529-020-100 | PSC80-ID x PRO-E20 - 100 | 148 | 100            | 65             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 2.10         |
| 5136-529-020-125 | PSC80-ID x PRO-E20 - 125 | 173 | 125            | 90             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 2.28         |
| 5136-529-020-150 | PSC80-ID x PRO-E20 - 150 | 198 | 150            | 110            | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 2.46         |
| 5136-529-020-200 | PSC80-ID x PRO-E20 - 200 | 248 | 200            | 160            | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 2.80         |
| 5136-529-025-100 | PSC80-ID x PRO-E25 - 100 | 148 | 100            | 65             | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 2.26         |
| 5136-529-025-125 | PSC80-ID x PRO-E25 - 125 | 173 | 125            | 90             | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 2.50         |
| 5136-529-025-150 | PSC80-ID x PRO-E25 - 150 | 198 | 150            | 110            | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 2.76         |
| 5136-529-025-200 | PSC80-ID x PRO-E25 - 200 | 248 | 200            | 160            | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 3.23         |
| 5136-529-032-100 | PSC80-ID x PRO-E32 - 100 | 148 | 100            | 65             | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 2.46         |
| 5136-529-032-125 | PSC80-ID x PRO-E32 - 125 | 173 | 125            | 90             | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 2.79         |
| 5136-529-032-150 | PSC80-ID x PRO-E32 - 150 | 198 | 150            | 115            | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 3.14         |
| 5136-529-032-200 | PSC80-ID x PRO-E32 - 200 | 248 | 200            | 165            | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 3.84         |



**Features:**

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- ▶ PRO-E nuts without slots reduce the wind shear at high speed.

**Product information:**

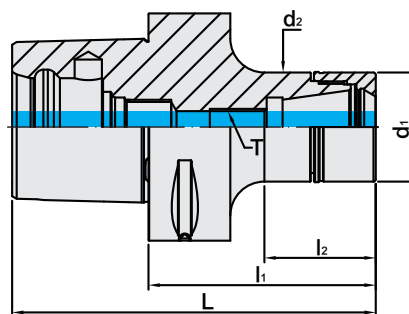
- ▶ Balance: G2.5 25,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.

**Standard Accessory: • NUT**

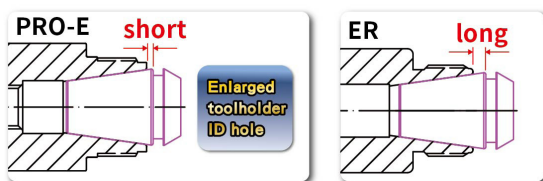
| Collet  | Nut  | Coolant Supply Unit | Preset Screw | Spanner | KEY  |
|---------|------|---------------------|--------------|---------|------|
|         |      |                     |              |         |      |
| P.32~55 | P.60 | P.71                | P.64         | P.69    | P.71 |

# PSC / PRO-E COLLET CHUCK

## PSC / PRO-E 筒夾式刀桿



| MODEL NO.        | TYPE                      | L   | l <sub>1</sub> | l <sub>2</sub> | d <sub>1</sub> | d <sub>2</sub> | T           | SIZE RANGE | WEIGHT (KGS) |
|------------------|---------------------------|-----|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 5138-529-016-100 | PSC100-ID x PRO-E16 - 100 | 160 | 100            | 44             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 3.98         |
| 5138-529-016-125 | PSC100-ID x PRO-E16 - 125 | 185 | 125            | 69             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 4.11         |
| 5138-529-016-150 | PSC100-ID x PRO-E16 - 150 | 210 | 150            | 94             | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 4.23         |
| 5138-529-016-200 | PSC100-ID x PRO-E16 - 200 | 260 | 200            | 144            | 30             | 30             | M10 x 1.5P  | 1 ~ 10     | 4.48         |
| 5138-529-020-100 | PSC100-ID x PRO-E20 - 100 | 160 | 100            | 49             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 3.94         |
| 5138-529-020-125 | PSC100-ID x PRO-E20 - 125 | 185 | 125            | 74             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 4.13         |
| 5138-529-020-150 | PSC100-ID x PRO-E20 - 150 | 210 | 150            | 99             | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 4.30         |
| 5138-529-020-200 | PSC100-ID x PRO-E20 - 200 | 260 | 200            | 149            | 35             | 35             | M12 x 1.75P | 1 ~ 13     | 4.63         |
| 5138-529-025-100 | PSC100-ID x PRO-E25 - 100 | 160 | 100            | 49             | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 4.08         |
| 5138-529-025-125 | PSC100-ID x PRO-E25 - 125 | 185 | 125            | 74             | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 4.32         |
| 5138-529-025-150 | PSC100-ID x PRO-E25 - 150 | 210 | 150            | 99             | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 4.55         |
| 5138-529-025-200 | PSC100-ID x PRO-E25 - 200 | 260 | 200            | 149            | 42             | 42             | M16 x 2.0P  | 1 ~ 16     | 5.03         |
| 5138-529-032-100 | PSC100-ID x PRO-E32 - 100 | 160 | 100            | 49             | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 4.23         |
| 5138-529-032-125 | PSC100-ID x PRO-E32 - 125 | 185 | 125            | 74             | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 4.58         |
| 5138-529-032-150 | PSC100-ID x PRO-E32 - 150 | 210 | 150            | 99             | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 4.93         |
| 5138-529-032-200 | PSC100-ID x PRO-E32 - 200 | 260 | 200            | 149            | 50             | 50             | M16 x 2.0P  | 2 ~ 20     | 5.63         |



### Features:

- ▶ Superior interchangeability with ER collets.
- ▶ The design of enlarged holder ID hole optimizes the coverage of ER collet, shortens the tool overhanging length, and improves runout accuracy and machining stability.
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- ▶ PRO-E nuts without slots reduce the wind shear at high speed.

### Product information:

- ▶ Balance: G2.5 25,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.

### Standard Accessory: • NUT

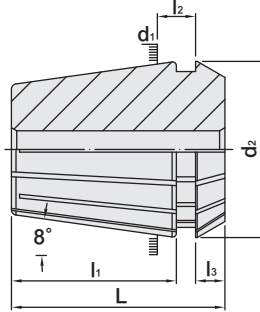
| Collet  | Nut  | Coolant Supply Unit | Preset Screw | Spanner | KEY  |
|---------|------|---------------------|--------------|---------|------|
| P.32~55 | P.60 | P.71                | P.64         | P.69    | P.71 |



# ER COLLET

ER 彈性筒夾

(DIN ISO 15488)



TW PAT NO. M261313  
 TW PAT NO. M266126  
 J P PAT NO. 3108255  
 J P PAT NO. 3108254

| TYPE | d <sub>1</sub> | d <sub>2</sub> | L    | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | WEIGHT (KGS) |
|------|----------------|----------------|------|----------------|----------------|----------------|--------------|
| ER8  | 8              | 8.5            | 13.5 | 10.8           | 2.98           | 1.5            | 0.01         |
| ER11 | 11             | 11.5           | 18   | 13.5           | 3.8            | 2.5            | 0.01         |
| ER16 | 16             | 17             | 27.5 | 20.8           | 6.26           | 4              | 0.03         |
| ER20 | 20             | 21             | 31.5 | 23.9           | 6.36           | 4.8            | 0.04         |
| ER25 | 25             | 26             | 34   | 25.9           | 6.66           | 5              | 0.06         |
| ER32 | 32             | 33             | 40   | 30.9           | 7.16           | 5.5            | 0.10         |
| ER40 | 40             | 41             | 46   | 34.9           | 7.66           | 7              | 0.25         |
| ER50 | 50             | 51.85          | 60   | 46             | 12.6           | 8.5            | 0.45         |

| ER8                |               | ER11               |               | ER16               |               | ER20               |               |
|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|
| MODEL NO.          | SIZE          | MODEL NO.          | SIZE          | MODEL NO.          | SIZE          | MODEL NO.          | SIZE          |
| 5250-122-008-001   | 1 - 0.5       | 5250-122-011-001   | 1 - 0.5       | 5250-122-016-001   | 1 - 0.5       | 5250-122-020-001   | 1 - 0.5       |
| 5250-122-008-001.5 | 1.5 - 1       | 5250-122-011-001.5 | 1.5 - 1       | 5250-122-016-001.5 | 1.5 - 1       | 5250-122-020-001.5 | 1.5 - 1       |
| 5250-122-008-002   | 2 - 1.5       | 5250-122-011-002   | 2 - 1.5       | 5250-122-016-002   | 2 - 1.5       | 5250-122-020-002   | 2 - 1.5       |
| 5250-122-008-002.5 | 2.5 - 2       | 5250-122-011-002.5 | 2.5 - 2       | 5250-122-016-002.5 | 2.5 - 2       | 5250-122-020-002.5 | 2.5 - 2       |
| 5250-122-008-003   | 3 - 2.5       | 5250-122-011-003   | 3 - 2.5       | 5250-122-016-003   | 3 - 2         | 5250-122-020-003   | 3 - 2         |
| 5250-122-008-003.5 | 3.5 - 3       | 5250-122-011-003.5 | 3.5 - 3       | 5250-122-016-003.5 | 3.5 - 2.5     | 5250-122-020-003.5 | 3.5 - 2.5     |
| 5250-122-008-004   | 4 - 3.5       | 5250-122-011-004   | 4 - 3.5       | 5250-122-016-004   | 4 - 3         | 5250-122-020-004   | 4 - 3         |
| 5250-122-008-004.5 | 4.5 - 4       | 5250-122-011-004.5 | 4.5 - 4       | 5250-122-016-004.5 | 4.5 - 3.5     | 5250-122-020-004.5 | 4.5 - 3.5     |
| 5250-122-008-005   | 5 - 4.5       | 5250-122-011-005   | 5 - 4.5       | 5250-122-016-005   | 5 - 4         | 5250-122-020-005   | 5 - 4         |
| <b>INCHES</b>      |               | 5250-122-011-005.5 | 5.5 - 5       | 5250-122-016-005.5 | 5.5 - 4.5     | 5250-122-020-005.5 | 5.5 - 4.5     |
| 5250-122-008-A04   | 0.043 - 0.062 | 5250-122-011-006   | 6 - 5.5       | 5250-122-016-006   | 6 - 5         | 5250-122-020-006   | 6 - 5         |
| 5250-122-008-A08   | 0.086 - 0.125 | 5250-122-011-006.5 | 6.5 - 6       | 5250-122-016-006.5 | 6.5 - 5.5     | 5250-122-020-006.5 | 6.5 - 5.5     |
| 5250-122-008-A12   | 0.148 - 0.187 | 5250-122-011-007   | 7 - 6.5       | 5250-122-016-007   | 7 - 6         | 5250-122-020-007   | 7 - 6         |
|                    |               | <b>INCHES</b>      |               | 5250-122-016-007.5 | 7.5 - 6.5     | 5250-122-020-007.5 | 7.5 - 6.5     |
|                    |               | 5250-122-011-A04   | 0.043 - 0.062 | 5250-122-016-008   | 8 - 7         | 5250-122-020-008   | 8 - 7         |
|                    |               | 5250-122-011-A06   | 0.054 - 0.093 | 5250-122-016-008.5 | 8.5 - 7.5     | 5250-122-020-008.5 | 8.5 - 7.5     |
|                    |               | 5250-122-011-A08   | 0.086 - 0.125 | 5250-122-016-009   | 9 - 8         | 5250-122-020-009   | 9 - 8         |
|                    |               | 5250-122-011-A10   | 0.117 - 0.156 | 5250-122-016-009.5 | 9.5 - 8.5     | 5250-122-020-009.5 | 9.5 - 8.5     |
|                    |               | 5250-122-011-A12   | 0.148 - 0.187 | 5250-122-016-010   | 10 - 9        | 5250-122-020-010   | 10 - 9        |
|                    |               | 5250-122-011-A14   | 0.179~0.218   | <b>INCHES</b>      |               | 5250-122-020-010.5 | 10.5 - 9.5    |
|                    |               | 5250-122-011-A16   | 0.211~0.25    | 5250-122-016-A04   | 0.043 - 0.062 | 5250-122-020-011   | 11 - 10       |
|                    |               |                    |               | 5250-122-016-A06   | 0.054 - 0.093 | 5250-122-020-011.5 | 11.5 - 10.5   |
|                    |               |                    |               | 5250-122-016-A08   | 0.086 - 0.125 | 5250-122-020-012   | 12 - 11       |
|                    |               |                    |               | 5250-122-016-A10   | 0.117 - 0.156 | 5250-122-020-012.5 | 12.5 - 11.5   |
|                    |               |                    |               | 5250-122-016-A12   | 0.148 - 0.187 | 5250-122-020-013   | 13 - 12       |
|                    |               |                    |               | 5250-122-016-A14   | 0.179 - 0.218 | <b>INCHES</b>      |               |
|                    |               |                    |               | 5250-122-016-A16   | 0.211 - 0.25  | 5250-122-020-A04   | 0.043 - 0.062 |
|                    |               |                    |               | 5250-122-016-A18   | 0.242 - 0.281 | 5250-122-020-A06   | 0.054 - 0.093 |
|                    |               |                    |               | 5250-122-016-A20   | 0.273 - 0.312 | 5250-122-020-A08   | 0.086 - 0.125 |
|                    |               |                    |               | 5250-122-016-A22   | 0.304 - 0.343 | 5250-122-020-A10   | 0.117 - 0.156 |
|                    |               |                    |               | 5250-122-016-A24   | 0.336 - 0.375 | 5250-122-020-A12   | 0.148 - 0.187 |
|                    |               |                    |               | 5250-122-016-A26   | 0.367 - 0.406 | 5250-122-020-A14   | 0.179 - 0.218 |
|                    |               |                    |               |                    |               | 5250-122-020-A16   | 0.211 - 0.25  |
|                    |               |                    |               |                    |               | 5250-122-020-A18   | 0.242 - 0.281 |
|                    |               |                    |               |                    |               | 5250-122-020-A20   | 0.273 - 0.312 |
|                    |               |                    |               |                    |               | 5250-122-020-A22   | 0.304 - 0.343 |
|                    |               |                    |               |                    |               | 5250-122-020-A24   | 0.336 - 0.375 |
|                    |               |                    |               |                    |               | 5250-122-020-A26   | 0.367 - 0.406 |
|                    |               |                    |               |                    |               | 5250-122-020-A28   | 0.398 - 0.437 |
|                    |               |                    |               |                    |               | 5250-122-020-A30   | 0.429 - 0.468 |
|                    |               |                    |               |                    |               | 5250-122-020-A32   | 0.461 - 0.5   |

**Features:**

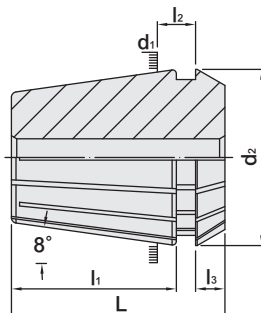
- ▶ Runout accuracy: 15µm, A class 10µm, UP class 5µm. Please indicate the runout accuracy needed when placing an order.
- ▶ Design: 8 slots in front and back, with good flexibility and convenient for clamping tools.
- ▶ Clamping range: ER8, ER11: 0.5mm; ER16,20,25,32,40: 1mm (ID ≥ 3mm), 0.5mm (ID < 3mm); ER50: 2mm (ID > 10mm), 1mm (ID ≤ 10mm).
- ▶ Surface roughness: Ra < 0.25µm, A class Ra < 0.15µm, UP class Ra < 0.1µm.
- ▶ Used for drills, taps, mills and reamers, etc.



# ER COLLET

ER 彈性筒夾

(DIN ISO 15488)



TW PAT NO. M261313  
 TW PAT NO. M266126  
 J P PAT NO. 3108255  
 J P PAT NO. 3108254

| TYPE | d <sub>1</sub> | d <sub>2</sub> | L    | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | WEIGHT (KGS) |
|------|----------------|----------------|------|----------------|----------------|----------------|--------------|
| ER8  | 8              | 8.5            | 13.5 | 10.8           | 2.98           | 1.5            | 0.01         |
| ER11 | 11             | 11.5           | 18   | 13.5           | 3.8            | 2.5            | 0.01         |
| ER16 | 16             | 17             | 27.5 | 20.8           | 6.26           | 4              | 0.03         |
| ER20 | 20             | 21             | 31.5 | 23.9           | 6.36           | 4.8            | 0.04         |
| ER25 | 25             | 26             | 34   | 25.9           | 6.66           | 5              | 0.06         |
| ER32 | 32             | 33             | 40   | 30.9           | 7.16           | 5.5            | 0.10         |
| ER40 | 40             | 41             | 46   | 34.9           | 7.66           | 7              | 0.25         |
| ER50 | 50             | 51.85          | 60   | 46             | 12.6           | 8.5            | 0.45         |

| ER25               |           |                    |             |
|--------------------|-----------|--------------------|-------------|
| MODEL NO.          | SIZE      | MODEL NO.          | SIZE        |
| 5250-122-025-001   | 1 - 0.5   | 5250-122-025-009   | 9 - 8       |
| 5250-122-025-001.5 | 1.5 - 1   | 5250-122-025-009.5 | 9.5 - 8.5   |
| 5250-122-025-002   | 2 - 1.5   | 5250-122-025-010   | 10 - 9      |
| 5250-122-025-002.5 | 2.5 - 2   | 5250-122-025-010.5 | 10.5 - 9.5  |
| 5250-122-025-003   | 3 - 2     | 5250-122-025-011   | 11 - 10     |
| 5250-122-025-003.5 | 3.5 - 2.5 | 5250-122-025-011.5 | 11.5 - 10.5 |
| 5250-122-025-004   | 4 - 3     | 5250-122-025-012   | 12 - 11     |
| 5250-122-025-004.5 | 4.5 - 3.5 | 5250-122-025-012.5 | 12.5 - 11.5 |
| 5250-122-025-005   | 5 - 4     | 5250-122-025-013   | 13 - 12     |
| 5250-122-025-005.5 | 5.5 - 4.5 | 5250-122-025-013.5 | 13.5 - 12.5 |
| 5250-122-025-006   | 6 - 5     | 5250-122-025-014   | 14 - 13     |
| 5250-122-025-006.5 | 6.5 - 5.5 | 5250-122-025-014.5 | 14.5 - 13.5 |
| 5250-122-025-007   | 7 - 6     | 5250-122-025-015   | 15 - 14     |
| 5250-122-025-007.5 | 7.5 - 6.5 | 5250-122-025-015.5 | 15.5 - 14.5 |
| 5250-122-025-008   | 8 - 7     | 5250-122-025-016   | 16 - 15     |
| 5250-122-025-008.5 | 8.5 - 7.5 |                    |             |

**INCHES**

|                  |               |                  |               |
|------------------|---------------|------------------|---------------|
| 5250-122-025-A06 | 0.054 - 0.093 | 5250-122-025-A24 | 0.336 - 0.375 |
| 5250-122-025-A08 | 0.086 - 0.125 | 5250-122-025-A26 | 0.367 - 0.406 |
| 5250-122-025-A10 | 0.117 - 0.156 | 5250-122-025-A28 | 0.398 - 0.437 |
| 5250-122-025-A12 | 0.148 - 0.187 | 5250-122-025-A30 | 0.429 - 0.468 |
| 5250-122-025-A14 | 0.179 - 0.218 | 5250-122-025-A32 | 0.461 - 0.5   |
| 5250-122-025-A16 | 0.211 - 0.250 | 5250-122-025-A34 | 0.492 - 0.531 |
| 5250-122-025-A18 | 0.242 - 0.281 | 5250-122-025-A36 | 0.523 - 0.562 |
| 5250-122-025-A20 | 0.273 - 0.312 | 5250-122-025-A38 | 0.554 - 0.593 |
| 5250-122-025-A22 | 0.304 - 0.343 | 5250-122-025-A40 | 0.586 - 0.625 |

| ER32               |            |                    |             |
|--------------------|------------|--------------------|-------------|
| MODEL NO.          | SIZE       | MODEL NO.          | SIZE        |
| 5250-122-032-002   | 2 - 1.5    | 5250-122-032-011.5 | 11.5 - 10.5 |
| 5250-122-032-002.5 | 2.5 - 2    | 5250-122-032-012   | 12 - 11     |
| 5250-122-032-003   | 3 - 2      | 5250-122-032-012.5 | 12.5 - 11.5 |
| 5250-122-032-003.5 | 3.5 - 2.5  | 5250-122-032-013   | 13 - 12     |
| 5250-122-032-004   | 4 - 3      | 5250-122-032-013.5 | 13.5 - 12.5 |
| 5250-122-032-004.5 | 4.5 - 3.5  | 5250-122-032-014   | 14 - 13     |
| 5250-122-032-005   | 5 - 4      | 5250-122-032-014.5 | 14.5 - 13.5 |
| 5250-122-032-005.5 | 5.5 - 4.5  | 5250-122-032-015   | 15 - 14     |
| 5250-122-032-006   | 6 - 5      | 5250-122-032-015.5 | 15.5 - 14.5 |
| 5250-122-032-006.5 | 6.5 - 5.5  | 5250-122-032-016   | 16 - 15     |
| 5250-122-032-007   | 7 - 6      | 5250-122-032-016.5 | 16.5 - 15.5 |
| 5250-122-032-007.5 | 7.5 - 6.5  | 5250-122-032-017   | 17 - 16     |
| 5250-122-032-008   | 8 - 7      | 5250-122-032-017.5 | 17.5 - 16.5 |
| 5250-122-032-008.5 | 8.5 - 7.5  | 5250-122-032-018   | 18 - 17     |
| 5250-122-032-009   | 9 - 8      | 5250-122-032-018.5 | 18.5 - 17.5 |
| 5250-122-032-009.5 | 9.5 - 8.5  | 5250-122-032-019   | 19 - 18     |
| 5250-122-032-010   | 10 - 9     | 5250-122-032-019.5 | 19.5 - 18.5 |
| 5250-122-032-010.5 | 10.5 - 9.5 | 5250-122-032-020   | 20 - 19     |
| 5250-122-032-011   | 11 - 10    |                    |             |

**INCHES**

|                  |               |                  |               |
|------------------|---------------|------------------|---------------|
| 5250-122-032-A04 | 0.043 - 0.062 | 5250-122-032-A28 | 0.398 - 0.437 |
| 5250-122-032-A06 | 0.054 - 0.093 | 5250-122-032-A30 | 0.429 - 0.468 |
| 5250-122-032-A08 | 0.086 - 0.125 | 5250-122-032-A32 | 0.461 - 0.5   |
| 5250-122-032-A10 | 0.117 - 0.156 | 5250-122-032-A34 | 0.492 - 0.531 |
| 5250-122-032-A12 | 0.148 - 0.187 | 5250-122-032-A36 | 0.523 - 0.562 |
| 5250-122-032-A14 | 0.179 - 0.218 | 5250-122-032-A38 | 0.554 - 0.593 |
| 5250-122-032-A16 | 0.211 - 0.25  | 5250-122-032-A40 | 0.586 - 0.625 |
| 5250-122-032-A18 | 0.242 - 0.281 | 5250-122-032-A42 | 0.617 - 0.656 |
| 5250-122-032-A20 | 0.273 - 0.312 | 5250-122-032-A44 | 0.648 - 0.687 |
| 5250-122-032-A22 | 0.304 - 0.343 | 5250-122-032-A46 | 0.679 - 0.718 |
| 5250-122-032-A24 | 0.336 - 0.375 | 5250-122-032-A48 | 0.711 - 0.75  |
| 5250-122-032-A26 | 0.367 - 0.406 |                  |               |

**Features:**

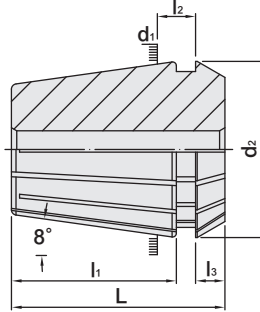
- ▶ Runout accuracy: 15µm, A class 10µm, UP class 5µm. Please indicate the runout accuracy needed when placing an order.
- ▶ Design: 8 slots in front and back, with good flexibility and convenient for clamping tools.
- ▶ Clamping range: ER8, ER11: 0.5mm; ER16,20,25,32,40: 1mm (ID ≥ 3mm), 0.5mm (ID < 3mm); ER50: 2mm (ID > 10mm), 1mm (ID ≤ 10mm).
- ▶ Surface roughness: Ra < 0.25µm, A class Ra < 0.15µm, UP class Ra < 0.1µm.
- ▶ Used for drills, taps, mills and reamers, etc.



# ER COLLET

ER 彈性筒夾

(DIN ISO 15488)



| TYPE | d <sub>1</sub> | d <sub>2</sub> | L    | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | WEIGHT (KGS) |
|------|----------------|----------------|------|----------------|----------------|----------------|--------------|
| ER8  | 8              | 8.5            | 13.5 | 10.8           | 2.98           | 1.5            | 0.01         |
| ER11 | 11             | 11.5           | 18   | 13.5           | 3.8            | 2.5            | 0.01         |
| ER16 | 16             | 17             | 27.5 | 20.8           | 6.26           | 4              | 0.03         |
| ER20 | 20             | 21             | 31.5 | 23.9           | 6.36           | 4.8            | 0.04         |
| ER25 | 25             | 26             | 34   | 25.9           | 6.66           | 5              | 0.06         |
| ER32 | 32             | 33             | 40   | 30.9           | 7.16           | 5.5            | 0.10         |
| ER40 | 40             | 41             | 46   | 34.9           | 7.66           | 7              | 0.25         |
| ER50 | 50             | 51.85          | 60   | 46             | 12.6           | 8.5            | 0.45         |

TW PAT NO. M261313  
 TW PAT NO. M266126  
 J P PAT NO. 3108255  
 J P PAT NO. 3108254

| ER40               |             |                    |             |
|--------------------|-------------|--------------------|-------------|
| MODEL NO.          | SIZE        | MODEL NO.          | SIZE        |
| 5250-122-040-003   | 3 - 2       | 5250-122-040-015   | 15 - 14     |
| 5250-122-040-003.5 | 3.5 - 2.5   | 5250-122-040-015.5 | 15.5 - 14.5 |
| 5250-122-040-004   | 4 - 3       | 5250-122-040-016   | 16 - 15     |
| 5250-122-040-004.5 | 4.5 - 3.5   | 5250-122-040-016.5 | 16.5 - 15.5 |
| 5250-122-040-005   | 5 - 4       | 5250-122-040-017   | 17 - 16     |
| 5250-122-040-005.5 | 5.5 - 4.5   | 5250-122-040-017.5 | 17.5 - 16.5 |
| 5250-122-040-006   | 6 - 5       | 5250-122-040-018   | 18 - 17     |
| 5250-122-040-006.5 | 6.5 - 5.5   | 5250-122-040-018.5 | 18.5 - 17.5 |
| 5250-122-040-007   | 7 - 6       | 5250-122-040-019   | 19 - 18     |
| 5250-122-040-007.5 | 7.5 - 6.5   | 5250-122-040-019.5 | 19.5 - 18.5 |
| 5250-122-040-008   | 8 - 7       | 5250-122-040-020   | 20 - 19     |
| 5250-122-040-008.5 | 8.5 - 7.5   | 5250-122-040-020.5 | 20.5 - 19.5 |
| 5250-122-040-009   | 9 - 8       | 5250-122-040-021   | 21 - 20     |
| 5250-122-040-009.5 | 9.5 - 8.5   | 5250-122-040-021.5 | 21.5 - 20.5 |
| 5250-122-040-010   | 10 - 9      | 5250-122-040-022   | 22 - 21     |
| 5250-122-040-010.5 | 10.5 - 9.5  | 5250-122-040-022.5 | 22.5 - 21.5 |
| 5250-122-040-011   | 11 - 10     | 5250-122-040-023   | 23 - 22     |
| 5250-122-040-011.5 | 11.5 - 10.5 | 5250-122-040-023.5 | 23.5 - 22.5 |
| 5250-122-040-012   | 12 - 11     | 5250-122-040-024   | 24 - 23     |
| 5250-122-040-012.5 | 12.5 - 11.5 | 5250-122-040-024.5 | 24.5 - 23.5 |
| 5250-122-040-013   | 13 - 12     | 5250-122-040-025   | 25 - 24     |
| 5250-122-040-013.5 | 13.5 - 12.5 | 5250-122-040-025.5 | 25.5 - 24.5 |
| 5250-122-040-014   | 14 - 13     | 5250-122-040-026   | 26 - 25     |
| 5250-122-040-014.5 | 14.5 - 13.5 |                    |             |

| ER50             |         |                  |         |
|------------------|---------|------------------|---------|
| MODEL NO.        | SIZE    | MODEL NO.        | SIZE    |
| 5250-122-050-006 | 6 - 5   | 5250-122-050-021 | 21 - 19 |
| 5250-122-050-007 | 7 - 6   | 5250-122-050-022 | 22 - 20 |
| 5250-122-050-008 | 8 - 7   | 5250-122-050-023 | 23 - 21 |
| 5250-122-050-009 | 9 - 8   | 5250-122-050-024 | 24 - 22 |
| 5250-122-050-010 | 10 - 9  | 5250-122-050-025 | 25 - 23 |
| 5250-122-050-011 | 11 - 9  | 5250-122-050-026 | 26 - 24 |
| 5250-122-050-012 | 12 - 10 | 5250-122-050-027 | 27 - 25 |
| 5250-122-050-013 | 13 - 11 | 5250-122-050-028 | 28 - 26 |
| 5250-122-050-014 | 14 - 12 | 5250-122-050-029 | 29 - 27 |
| 5250-122-050-015 | 15 - 13 | 5250-122-050-030 | 30 - 28 |
| 5250-122-050-016 | 16 - 14 | 5250-122-050-031 | 31 - 29 |
| 5250-122-050-017 | 17 - 15 | 5250-122-050-032 | 32 - 30 |
| 5250-122-050-018 | 18 - 16 | 5250-122-050-033 | 33 - 31 |
| 5250-122-050-019 | 19 - 17 | 5250-122-050-034 | 34 - 32 |
| 5250-122-050-020 | 20 - 18 |                  |         |

**INCHES**

|                  |               |                  |               |
|------------------|---------------|------------------|---------------|
| 5250-122-040-A08 | 0.086 - 0.125 | 5250-122-040-A32 | 0.461 - 0.5   |
| 5250-122-040-A10 | 0.117 - 0.156 | 5250-122-040-A34 | 0.492 - 0.531 |
| 5250-122-040-A12 | 0.148 - 0.187 | 5250-122-040-A36 | 0.523 - 0.562 |
| 5250-122-040-A14 | 0.179 - 0.218 | 5250-122-040-A38 | 0.554 - 0.593 |
| 5250-122-040-A16 | 0.211 - 0.25  | 5250-122-040-A40 | 0.586 - 0.625 |
| 5250-122-040-A18 | 0.242 - 0.281 | 5250-122-040-A42 | 0.617 - 0.656 |
| 5250-122-040-A20 | 0.273 - 0.312 | 5250-122-040-A44 | 0.648 - 0.687 |
| 5250-122-040-A22 | 0.304 - 0.343 | 5250-122-040-A46 | 0.679 - 0.718 |
| 5250-122-040-A24 | 0.336 - 0.375 | 5250-122-040-A48 | 0.711 - 0.750 |
| 5250-122-040-A26 | 0.367 - 0.406 | 5250-122-040-A56 | 0.836 - 0.875 |
| 5250-122-040-A28 | 0.398 - 0.437 | 5250-122-040-A64 | 0.961 - 1     |
| 5250-122-040-A30 | 0.429 - 0.468 |                  |               |

**INCHES**

|                  |               |                  |               |
|------------------|---------------|------------------|---------------|
| 5250-122-040-A14 | 0.179 - 0.219 | 5250-122-040-A50 | 0.703 - 0.781 |
| 5250-122-040-A16 | 0.211 - 0.250 | 5250-122-040-A54 | 0.765 - 0.844 |
| 5250-122-040-A20 | 0.273 - 0.313 | 5250-122-040-A60 | 0.859 - 0.938 |
| 5250-122-040-A22 | 0.304 - 0.344 | 5250-122-040-A64 | 0.921 - 1     |
| 5250-122-040-A24 | 0.336 - 0.375 | 5250-122-040-A65 | 1.015 - 1.094 |
| 5250-122-040-A28 | 0.359 - 0.438 | 5250-122-040-A70 | 1.109 - 1.188 |
| 5250-122-040-A34 | 0.453 - 0.531 | 5250-122-040-A72 | 1.171 - 1.25  |
| 5250-122-040-A40 | 0.546 - 0.625 | 5250-122-040-A74 | 1.234 - 1.313 |
| 5250-122-040-A44 | 0.609 - 0.688 |                  |               |

**Features:**

- ▶ Runout accuracy: 15µm, A class 10µm, UP class 5µm. Please indicate the runout accuracy needed when placing an order.
- ▶ Design: 8 slots in front and back, with good flexibility and convenient for clamping tools.
- ▶ Clamping range: ER8, ER11: 0.5mm; ER16,20,25,32,40: 1mm (ID ≥ 3mm), 0.5mm (ID < 3mm); ER50: 2mm (ID > 10mm), 1mm (ID ≤ 10mm).
- ▶ Surface roughness: Ra < 0.25µm, A class Ra < 0.15µm, UP class Ra < 0.1µm.
- ▶ Used for drills, taps, mills and reamers, etc.

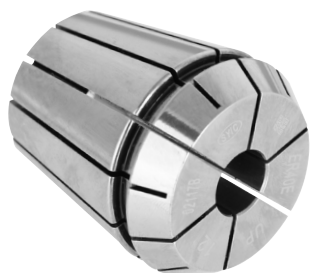




# ER - E COLLET

ER - E 彈性筒夾

(DIN ISO 15488)



TW PAT NO. M261313  
 TW PAT NO. M266126  
 J P PAT NO. 3108255  
 J P PAT NO. 3108254

| ER11E            |      |
|------------------|------|
| MODEL NO.        | SIZE |
| 5250-113-011-002 | 2    |
| 5250-113-011-003 | 3    |
| 5250-113-011-004 | 4    |
| 5250-113-011-005 | 5    |
| 5250-113-011-006 | 6    |
| 5250-113-011-007 | 7    |

**INCHES**

|                  |      |
|------------------|------|
| 5250-113-011-A04 | 1/16 |
| 5250-113-011-A06 | 3/32 |
| 5250-113-011-A08 | 1/8  |
| 5250-113-011-A10 | 5/32 |
| 5250-113-011-A12 | 3/16 |
| 5250-113-011-A14 | 7/32 |
| 5250-113-011-A16 | 1/4  |
| 5250-113-011-A18 | 9/32 |

| ER16E            |      |
|------------------|------|
| MODEL NO.        | SIZE |
| 5250-113-016-002 | 2    |
| 5250-113-016-003 | 3    |
| 5250-113-016-004 | 4    |
| 5250-113-016-005 | 5    |
| 5250-113-016-006 | 6    |
| 5250-113-016-007 | 7    |
| 5250-113-016-008 | 8    |
| 5250-113-016-009 | 9    |
| 5250-113-016-010 | 10   |

**INCHES**

|                  |       |
|------------------|-------|
| 5250-113-016-A04 | 1/16  |
| 5250-113-016-A06 | 3/32  |
| 5250-113-016-A08 | 1/8   |
| 5250-113-016-A10 | 5/32  |
| 5250-113-016-A12 | 3/16  |
| 5250-113-016-A14 | 7/32  |
| 5250-113-016-A16 | 1/4   |
| 5250-113-016-A18 | 9/32  |
| 5250-113-016-A20 | 5/16  |
| 5250-113-016-A22 | 11/32 |
| 5250-113-016-A24 | 3/8   |
| 5250-113-016-A26 | 13/32 |

**Features:**

- ▶ Runout accuracy: R class 7µm, UP class 5µm, P class 3µm.
- ▶ Design: 6 slots in front and back, increasing precision stability.
- ▶ Clamping one size tool is recommended.
- ▶ Surface roughness: Ra<0.1µm

| ER20E            |      |
|------------------|------|
| MODEL NO.        | SIZE |
| 5250-113-020-002 | 2    |
| 5250-113-020-003 | 3    |
| 5250-113-020-004 | 4    |
| 5250-113-020-005 | 5    |
| 5250-113-020-006 | 6    |
| 5250-113-020-007 | 7    |
| 5250-113-020-008 | 8    |
| 5250-113-020-009 | 9    |
| 5250-113-020-010 | 10   |
| 5250-113-020-011 | 11   |
| 5250-113-020-012 | 12   |
| 5250-113-020-013 | 13   |

**INCHES**

|                  |       |
|------------------|-------|
| 5250-113-020-A04 | 1/16  |
| 5250-113-020-A06 | 3/32  |
| 5250-113-020-A08 | 1/8   |
| 5250-113-020-A10 | 5/32  |
| 5250-113-020-A12 | 3/16  |
| 5250-113-020-A14 | 7/32  |
| 5250-113-020-A16 | 1/4   |
| 5250-113-020-A18 | 9/32  |
| 5250-113-020-A20 | 5/16  |
| 5250-113-020-A22 | 11/32 |
| 5250-113-020-A24 | 3/8   |
| 5250-113-020-A26 | 13/32 |
| 5250-113-020-A28 | 7/16  |
| 5250-113-020-A30 | 15/32 |
| 5250-113-020-A32 | 1/2   |

| ER25E            |      |
|------------------|------|
| MODEL NO.        | SIZE |
| 5250-113-025-002 | 2    |
| 5250-113-025-003 | 3    |
| 5250-113-025-004 | 4    |
| 5250-113-025-005 | 5    |
| 5250-113-025-006 | 6    |
| 5250-113-025-007 | 7    |
| 5250-113-025-008 | 8    |
| 5250-113-025-009 | 9    |
| 5250-113-025-010 | 10   |
| 5250-113-025-011 | 11   |
| 5250-113-025-012 | 12   |
| 5250-113-025-013 | 13   |
| 5250-113-025-014 | 14   |
| 5250-113-025-015 | 15   |
| 5250-113-025-016 | 16   |

**INCHES**

|                  |       |
|------------------|-------|
| 5250-113-025-A06 | 3/32  |
| 5250-113-025-A08 | 1/8   |
| 5250-113-025-A10 | 5/32  |
| 5250-113-025-A12 | 3/16  |
| 5250-113-025-A14 | 7/32  |
| 5250-113-025-A16 | 1/4   |
| 5250-113-025-A18 | 9/32  |
| 5250-113-025-A20 | 5/16  |
| 5250-113-025-A22 | 11/32 |
| 5250-113-025-A24 | 3/8   |
| 5250-113-025-A26 | 13/32 |
| 5250-113-025-A28 | 7/16  |
| 5250-113-025-A30 | 15/32 |
| 5250-113-025-A32 | 1/2   |
| 5250-113-025-A34 | 17/32 |
| 5250-113-025-A36 | 9/16  |
| 5250-113-025-A38 | 19/32 |
| 5250-113-025-A40 | 5/8   |

| ER32E            |      |
|------------------|------|
| MODEL NO.        | SIZE |
| 5250-113-032-003 | 3    |
| 5250-113-032-004 | 4    |
| 5250-113-032-005 | 5    |
| 5250-113-032-006 | 6    |
| 5250-113-032-007 | 7    |
| 5250-113-032-008 | 8    |
| 5250-113-032-009 | 9    |
| 5250-113-032-010 | 10   |
| 5250-113-032-011 | 11   |
| 5250-113-032-012 | 12   |
| 5250-113-032-013 | 13   |
| 5250-113-032-014 | 14   |
| 5250-113-032-015 | 15   |
| 5250-113-032-016 | 16   |
| 5250-113-032-017 | 17   |
| 5250-113-032-018 | 18   |
| 5250-113-032-019 | 19   |
| 5250-113-032-020 | 20   |

**INCHES**

|                  |       |
|------------------|-------|
| 5250-113-032-A08 | 1/8   |
| 5250-113-032-A10 | 5/32  |
| 5250-113-032-A12 | 3/16  |
| 5250-113-032-A14 | 7/32  |
| 5250-113-032-A16 | 1/4   |
| 5250-113-032-A18 | 9/32  |
| 5250-113-032-A20 | 5/16  |
| 5250-113-032-A22 | 11/32 |
| 5250-113-032-A24 | 3/8   |
| 5250-113-032-A26 | 13/32 |
| 5250-113-032-A28 | 7/16  |
| 5250-113-032-A30 | 15/32 |
| 5250-113-032-A32 | 1/2   |
| 5250-113-032-A34 | 17/32 |
| 5250-113-032-A36 | 9/16  |
| 5250-113-032-A38 | 19/32 |
| 5250-113-032-A40 | 5/8   |
| 5250-113-032-A42 | 21/32 |
| 5250-113-032-A44 | 11/16 |
| 5250-113-032-A46 | 23/32 |
| 5250-113-032-A48 | 3/4   |

**ER40E**

| MODEL NO.        | SIZE |
|------------------|------|
| 5250-113-040-003 | 3    |
| 5250-113-040-004 | 4    |
| 5250-113-040-005 | 5    |
| 5250-113-040-006 | 6    |
| 5250-113-040-007 | 7    |
| 5250-113-040-008 | 8    |
| 5250-113-040-009 | 9    |
| 5250-113-040-010 | 10   |
| 5250-113-040-011 | 11   |
| 5250-113-040-012 | 12   |
| 5250-113-040-013 | 13   |
| 5250-113-040-014 | 14   |
| 5250-113-040-015 | 15   |
| 5250-113-040-016 | 16   |
| 5250-113-040-017 | 17   |
| 5250-113-040-018 | 18   |
| 5250-113-040-019 | 19   |
| 5250-113-040-020 | 20   |
| 5250-113-040-021 | 21   |
| 5250-113-040-022 | 22   |
| 5250-113-040-023 | 23   |
| 5250-113-040-024 | 24   |
| 5250-113-040-025 | 25   |
| 5250-113-040-026 | 26   |

**INCHES**

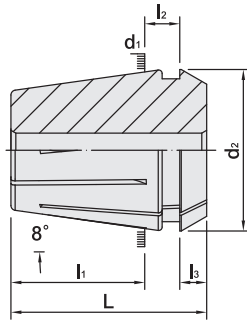
|                  |       |
|------------------|-------|
| 5250-113-040-A08 | 1/8   |
| 5250-113-040-A10 | 5/32  |
| 5250-113-040-A12 | 3/16  |
| 5250-113-040-A14 | 7/32  |
| 5250-113-040-A16 | 1/4   |
| 5250-113-040-A18 | 9/32  |
| 5250-113-040-A20 | 5/16  |
| 5250-113-040-A22 | 11/32 |
| 5250-113-040-A24 | 3/8   |
| 5250-113-040-A26 | 13/32 |
| 5250-113-040-A28 | 7/16  |
| 5250-113-040-A30 | 15/32 |
| 5250-113-040-A32 | 1/2   |
| 5250-113-040-A34 | 17/32 |
| 5250-113-040-A36 | 9/16  |
| 5250-113-040-A38 | 19/32 |
| 5250-113-040-A40 | 5/8   |
| 5250-113-040-A42 | 21/32 |
| 5250-113-040-A44 | 11/16 |
| 5250-113-040-A46 | 23/32 |
| 5250-113-040-A48 | 3/4   |
| 5250-113-040-A56 | 7/8   |
| 5250-113-040-A64 | 1     |



# ER - ES STEEL SEALED COLLET

ER - ES 斜槽止水筒夾

(DIN ISO 15488)



| TYPE   | d <sub>1</sub> | d <sub>2</sub> | L    | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | WEIGHT (KGS) |
|--------|----------------|----------------|------|----------------|----------------|----------------|--------------|
| ER11ES | 11             | 11.2           | 18   | 13.5           | 3.8            | 2.5            | 0.01         |
| ER16ES | 16             | 16.6           | 27.5 | 20.8           | 6.25           | 4              | 0.03         |
| ER20ES | 20             | 20.6           | 31.5 | 23.9           | 6.36           | 4.8            | 0.04         |
| ER25ES | 25             | 25.6           | 34   | 25.9           | 6.66           | 5              | 0.06         |
| ER32ES | 32             | 32.6           | 40   | 30.9           | 7.16           | 5.5            | 0.10         |
| ER40ES | 40             | 40.6           | 46   | 34.9           | 7.66           | 7              | 0.25         |

TW PAT NO. M285418  
 TW PAT NO. M311516  
 J P PAT NO. 3124650  
 CH PAT NO. 696264

| ER11ES             |      | ER16ES             |       | ER20ES             |       | ER25ES             |       |                    |       |
|--------------------|------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|
| MODEL NO.          | SIZE | MODEL NO.          | SIZE  | MODEL NO.          | SIZE  | MODEL NO.          | SIZE  | MODEL NO.          | SIZE  |
| 5250-114-011-003   | 3    | 5250-114-016-003   | 3     | 5250-114-020-003   | 3     | 5250-114-025-003   | 3     | 5250-114-025-010   | 10    |
| 5250-114-011-003.5 | 3.5  | 5250-114-016-003.5 | 3.5   | 5250-114-020-003.5 | 3.5   | 5250-114-025-003.5 | 3.5   | 5250-114-025-010.5 | 10.5  |
| 5250-114-011-004   | 4    | 5250-114-016-004   | 4     | 5250-114-020-004   | 4     | 5250-114-025-004   | 4     | 5250-114-025-011   | 11    |
| 5250-114-011-004.5 | 4.5  | 5250-114-016-004.5 | 4.5   | 5250-114-020-004.5 | 4.5   | 5250-114-025-004.5 | 4.5   | 5250-114-025-011.5 | 11.5  |
| 5250-114-011-005   | 5    | 5250-114-016-005   | 5     | 5250-114-020-005   | 5     | 5250-114-025-005   | 5     | 5250-114-025-012   | 12    |
| 5250-114-011-005.5 | 5.5  | 5250-114-016-005.5 | 5.5   | 5250-114-020-005.5 | 5.5   | 5250-114-025-005.5 | 5.5   | 5250-114-025-012.5 | 12.5  |
| 5250-114-011-006   | 6    | 5250-114-016-006   | 6     | 5250-114-020-006   | 6     | 5250-114-025-006   | 6     | 5250-114-025-013   | 13    |
| 5250-114-011-006.5 | 6.5  | 5250-114-016-006.5 | 6.5   | 5250-114-020-006.5 | 6.5   | 5250-114-025-006.5 | 6.5   | 5250-114-025-013.5 | 13.5  |
| 5250-114-011-007   | 7    | 5250-114-016-007   | 7     | 5250-114-020-007   | 7     | 5250-114-025-007   | 7     | 5250-114-025-014   | 14    |
| <b>INCHES</b>      |      | 5250-114-016-007.5 | 7.5   | 5250-114-020-007.5 | 7.5   | 5250-114-025-007.5 | 7.5   | 5250-114-025-014.5 | 14.5  |
| 5250-114-011-A06   | 3/32 | 5250-114-016-008   | 8     | 5250-114-020-008   | 8     | 5250-114-025-008   | 8     | 5250-114-025-015   | 15    |
| 5250-114-011-A08   | 1/8  | 5250-114-016-008.5 | 8.5   | 5250-114-020-008.5 | 8.5   | 5250-114-025-008.5 | 8.5   | 5250-114-025-015.5 | 15.5  |
| 5250-114-011-A10   | 5/32 | 5250-114-016-009   | 9     | 5250-114-020-009   | 9     | 5250-114-025-009   | 9     | 5250-114-025-016   | 16    |
| 5250-114-011-A12   | 3/16 | 5250-114-016-009.5 | 9.5   | 5250-114-020-009.5 | 9.5   | 5250-114-025-009.5 | 9.5   |                    |       |
| 5250-114-011-A14   | 7/32 | 5250-114-016-0010  | 10    | 5250-114-020-010   | 10    | <b>INCHES</b>      |       |                    |       |
| 5250-114-011-A16   | 1/4  | <b>INCHES</b>      |       | 5250-114-020-010.5 | 10.5  | 5250-114-025-A14   | 7/32  | 5250-114-025-A28   | 7/16  |
|                    |      | 5250-114-016-A06   | 3/32  | 5250-114-020-011   | 11    | 5250-114-025-A16   | 1/4   | 5250-114-025-A30   | 15/32 |
|                    |      | 5250-114-016-A08   | 1/8   | 5250-114-020-011.5 | 11.5  | 5250-114-025-A18   | 9/32  | 5250-114-025-A32   | 1/2   |
|                    |      | 5250-114-016-A10   | 5/32  | 5250-114-020-012   | 12    | 5250-114-025-A20   | 5/16  | 5250-114-025-A34   | 17/32 |
|                    |      | 5250-114-016-A12   | 3/16  | 5250-114-020-012.5 | 12.5  | 5250-114-025-A22   | 11/32 | 5250-114-025-A36   | 9/16  |
|                    |      | 5250-114-016-A14   | 7/32  | 5250-114-020-013   | 13    | 5250-114-025-A24   | 3/8   | 5250-114-025-A38   | 19/32 |
|                    |      | 5250-114-016-A16   | 1/4   | <b>INCHES</b>      |       | 5250-114-025-A26   | 13/32 | 5250-114-025-A40   | 5/8   |
|                    |      | 5250-114-016-A18   | 9/32  | 5250-114-020-A08   | 1/8   |                    |       |                    |       |
|                    |      | 5250-114-016-A20   | 5/16  | 5250-114-020-A10   | 5/32  |                    |       |                    |       |
|                    |      | 5250-114-016-A22   | 11/32 | 5250-114-020-A12   | 3/16  |                    |       |                    |       |
|                    |      | 5250-114-016-A24   | 3/8   | 5250-114-020-A14   | 7/32  |                    |       |                    |       |
|                    |      | 5250-114-016-A26   | 13/32 | 5250-114-020-A16   | 1/4   |                    |       |                    |       |
|                    |      |                    |       | 5250-114-020-A18   | 9/32  |                    |       |                    |       |
|                    |      |                    |       | 5250-114-020-A20   | 5/16  |                    |       |                    |       |
|                    |      |                    |       | 5250-114-020-A22   | 11/32 |                    |       |                    |       |
|                    |      |                    |       | 5250-114-020-A24   | 3/8   |                    |       |                    |       |
|                    |      |                    |       | 5250-114-020-A26   | 13/32 |                    |       |                    |       |
|                    |      |                    |       | 5250-114-020-A28   | 7/16  |                    |       |                    |       |
|                    |      |                    |       | 5250-114-020-A30   | 15/32 |                    |       |                    |       |
|                    |      |                    |       | 5250-114-020-A32   | 1/2   |                    |       |                    |       |

**Features:**

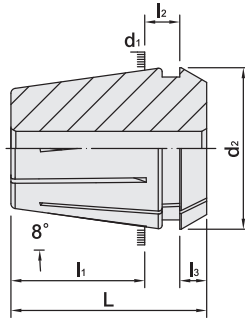
- ▶ Runout accuracy: 15µm, A class 10µm, UP class 5µm.
- ▶ Surface roughness: Ra<0.25µm.
- ▶ Used for coolant-through cutting tools.
- ▶ Water pressure up to 150 kgf/cm<sup>2</sup>(1400PSI).
- ▶ Only for tool shank with h6 tolerance and no flexible chucking range.



# ER - ES STEEL SEALED COLLET

ER - ES 斜槽止水筒夾

(DIN ISO 15488)



TW PAT NO. M285418  
TW PAT NO. M311516  
J P PAT NO. 3124650  
CH PAT NO. 696264

| TYPE   | d <sub>1</sub> | d <sub>2</sub> | L    | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | WEIGHT (KGS) |
|--------|----------------|----------------|------|----------------|----------------|----------------|--------------|
| ER11ES | 11             | 11.2           | 18   | 13.5           | 3.8            | 2.5            | 0.01         |
| ER16ES | 16             | 16.6           | 27.5 | 20.8           | 6.25           | 4              | 0.03         |
| ER20ES | 20             | 20.6           | 31.5 | 23.9           | 6.36           | 4.8            | 0.04         |
| ER25ES | 25             | 25.6           | 34   | 25.9           | 6.66           | 5              | 0.06         |
| ER32ES | 32             | 32.6           | 40   | 30.9           | 7.16           | 5.5            | 0.10         |
| ER40ES | 40             | 40.6           | 46   | 34.9           | 7.66           | 7              | 0.25         |

| ER32ES             |      |                    |      |
|--------------------|------|--------------------|------|
| MODEL NO.          | SIZE | MODEL NO.          | SIZE |
| 5250-114-032-003   | 3    | 5250-114-032-012   | 12   |
| 5250-114-032-003.5 | 3.5  | 5250-114-032-012.5 | 12.5 |
| 5250-114-032-004   | 4    | 5250-114-032-013   | 13   |
| 5250-114-032-004.5 | 4.5  | 5250-114-032-013.5 | 13.5 |
| 5250-114-032-005   | 5    | 5250-114-032-014   | 14   |
| 5250-114-032-005.5 | 5.5  | 5250-114-032-014.5 | 14.5 |
| 5250-114-032-006   | 6    | 5250-114-032-015   | 15   |
| 5250-114-032-006.5 | 6.5  | 5250-114-032-015.5 | 15.5 |
| 5250-114-032-007   | 7    | 5250-114-032-016   | 16   |
| 5250-114-032-007.5 | 7.5  | 5250-114-032-016.5 | 16.5 |
| 5250-114-032-008   | 8    | 5250-114-032-017   | 17   |
| 5250-114-032-008.5 | 8.5  | 5250-114-032-017.5 | 17.5 |
| 5250-114-032-009   | 9    | 5250-114-032-018   | 18   |
| 5250-114-032-009.5 | 9.5  | 5250-114-032-018.5 | 18.5 |
| 5250-114-032-010   | 10   | 5250-114-032-019   | 19   |
| 5250-114-032-010.5 | 10.5 | 5250-114-032-019.5 | 19.5 |
| 5250-114-032-011   | 11   | 5250-114-032-020   | 20   |
| 5250-114-032-011.5 | 11.5 |                    |      |

| ER40ES             |      |                    |      |
|--------------------|------|--------------------|------|
| MODEL NO.          | SIZE | MODEL NO.          | SIZE |
| 5250-114-040-003   | 3    | 5250-114-040-015   | 15   |
| 5250-114-040-003.5 | 3.5  | 5250-114-040-015.5 | 15.5 |
| 5250-114-040-004   | 4    | 5250-114-040-016   | 16   |
| 5250-114-040-004.5 | 4.5  | 5250-114-040-016.5 | 16.5 |
| 5250-114-040-005   | 5    | 5250-114-040-017   | 17   |
| 5250-114-040-005.5 | 5.5  | 5250-114-040-017.5 | 17.5 |
| 5250-114-040-006   | 6    | 5250-114-040-018   | 18   |
| 5250-114-040-006.5 | 6.5  | 5250-114-040-018.5 | 18.5 |
| 5250-114-040-007   | 7    | 5250-114-040-019   | 19   |
| 5250-114-040-007.5 | 7.5  | 5250-114-040-019.5 | 19.5 |
| 5250-114-040-008   | 8    | 5250-114-040-020   | 20   |
| 5250-114-040-008.5 | 8.5  | 5250-114-040-020.5 | 20.5 |
| 5250-114-040-009   | 9    | 5250-114-040-021   | 21   |
| 5250-114-040-009.5 | 9.5  | 5250-114-040-021.5 | 21.5 |
| 5250-114-040-010   | 10   | 5250-114-040-022   | 22   |
| 5250-114-040-010.5 | 10.5 | 5250-114-040-022.5 | 22.5 |
| 5250-114-040-011   | 11   | 5250-114-040-023   | 23   |
| 5250-114-040-011.5 | 11.5 | 5250-114-040-023.5 | 23.5 |
| 5250-114-040-012   | 12   | 5250-114-040-024   | 24   |
| 5250-114-040-012.5 | 12.5 | 5250-114-040-024.5 | 24.5 |
| 5250-114-040-013   | 13   | 5250-114-040-025   | 25   |
| 5250-114-040-013.5 | 13.5 | 5250-114-040-025.5 | 25.5 |
| 5250-114-040-014   | 14   | 5250-114-040-026   | 26   |
| 5250-114-040-014.5 | 14.5 |                    |      |

**INCHES**

|                  |       |                  |       |
|------------------|-------|------------------|-------|
| 5250-114-032-A14 | 7/32  | 5250-114-032-A32 | 1/2   |
| 5250-114-032-A16 | 1/4   | 5250-114-032-A34 | 17/32 |
| 5250-114-032-A18 | 9/32  | 5250-114-032-A36 | 9/16  |
| 5250-114-032-A20 | 5/16  | 5250-114-032-A38 | 19/32 |
| 5250-114-032-A22 | 11/32 | 5250-114-032-A40 | 5/8   |
| 5250-114-032-A24 | 3/8   | 5250-114-032-A42 | 21/32 |
| 5250-114-032-A26 | 13/32 | 5250-114-032-A44 | 11/16 |
| 5250-114-032-A28 | 7/16  | 5250-114-032-A46 | 23/32 |
| 5250-114-032-A30 | 15/32 | 5250-114-032-A48 | 3/4   |

**INCHES**

|                  |       |                  |       |
|------------------|-------|------------------|-------|
| 5250-114-040-A14 | 7/32  | 5250-114-040-A34 | 17/32 |
| 5250-114-040-A16 | 1/4   | 5250-114-040-A36 | 9/16  |
| 5250-114-040-A18 | 9/32  | 5250-114-040-A38 | 19/32 |
| 5250-114-040-A20 | 5/16  | 5250-114-040-A40 | 5/8   |
| 5250-114-040-A22 | 11/32 | 5250-114-040-A42 | 21/32 |
| 5250-114-040-A24 | 3/8   | 5250-114-040-A44 | 11/16 |
| 5250-114-040-A26 | 13/32 | 5250-114-040-A46 | 23/32 |
| 5250-114-040-A28 | 7/16  | 5250-114-040-A48 | 3/4   |
| 5250-114-040-A30 | 15/32 | 5250-114-040-A56 | 7/8   |
| 5250-114-040-A32 | 1/2   | 5250-114-040-A64 | 1     |

**Features:**

- ▶ Runout accuracy: 15µm, A class 10µm, UP class 5µm.
- ▶ Surface roughness: Ra<0.25µm.
- ▶ Used for coolant-through cutting tools.
- ▶ Water pressure up to 150 kgf/cm<sup>2</sup>(1400PSI).
- ▶ Only for tool shank with h6 tolerance and no flexible chucking range.



# ERS METALLIC SEALED COLLET

ERS 直溝止水筒夾

(DIN ISO 15488)



| ERS11              |      | ERS16              |       | ERS20              |       | ERS25              |       |                    |       |
|--------------------|------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|
| MODEL NO.          | SIZE | MODEL NO.          | SIZE  | MODEL NO.          | SIZE  | MODEL NO.          | SIZE  | MODEL NO.          | SIZE  |
| 5250-111-011-003   | 3    | 5250-111-016-003   | 3     | 5250-111-020-003   | 3     | 5250-111-025-003   | 3     | 5250-111-025-010   | 10    |
| 5250-111-011-003.5 | 3.5  | 5250-111-016-003.5 | 3.5   | 5250-111-020-003.5 | 3.5   | 5250-111-025-03.5  | 3.5   | 5250-111-025-010.5 | 10.5  |
| 5250-111-011-004   | 4    | 5250-111-016-004   | 4     | 5250-111-020-004   | 4     | 5250-111-025-004   | 4     | 5250-111-025-011   | 11    |
| 5250-111-011-004.5 | 4.5  | 5250-111-016-004.5 | 4.5   | 5250-111-020-004.5 | 4.5   | 5250-111-025-04.5  | 4.5   | 5250-111-025-011.5 | 11.5  |
| 5250-111-011-005   | 5    | 5250-111-016-005   | 5     | 5250-111-020-005   | 5     | 5250-111-025-005   | 5     | 5250-111-025-012   | 12    |
| 5250-111-011-005.5 | 5.5  | 5250-111-016-005.5 | 5.5   | 5250-111-020-005.5 | 5.5   | 5250-111-025-05.5  | 5.5   | 5250-111-025-012.5 | 12.5  |
| 5250-111-011-006   | 6    | 5250-111-016-006   | 6     | 5250-111-020-006   | 6     | 5250-111-025-006   | 6     | 5250-111-025-013   | 13    |
| 5250-111-011-006.5 | 6.5  | 5250-111-016-006.5 | 6.5   | 5250-111-020-006.5 | 6.5   | 5250-111-025-06.5  | 6.5   | 5250-111-025-013.5 | 13.5  |
| 5250-111-011-007   | 7    | 5250-111-016-007   | 7     | 5250-111-020-007   | 7     | 5250-111-025-007   | 7     | 5250-111-025-014   | 14    |
| <b>INCHES</b>      |      | 5250-111-016-007.5 | 7.5   | 5250-111-020-007.5 | 7.5   | 5250-111-025-07.5  | 7.5   | 5250-111-025-014.5 | 14.5  |
| 5250-111-011-A06   | 3/32 | 5250-111-016-008   | 8     | 5250-111-020-008   | 8     | 5250-111-025-008   | 8     | 5250-111-025-015   | 15    |
| 5250-111-011-A08   | 1/8  | 5250-111-016-008.5 | 8.5   | 5250-111-020-008.5 | 8.5   | 5250-111-025-08.5  | 8.5   | 5250-111-025-015.5 | 15.5  |
| 5250-111-011-A10   | 5/32 | 5250-111-016-009   | 9     | 5250-111-020-009   | 9     | 5250-111-025-009   | 9     | 5250-111-025-016   | 16    |
| 5250-111-011-A12   | 3/16 | 5250-111-016-009.5 | 9.5   | 5250-111-020-09.5  | 9.5   | 5250-111-025-009.5 | 9.5   |                    |       |
| 5250-111-011-A14   | 7/32 | 5250-111-016-010   | 10    | 5250-111-020-010   | 10    | <b>INCHES</b>      |       |                    |       |
| 5250-111-011-A16   | 1/4  | <b>INCHES</b>      |       | 5250-111-020-010.5 | 10.5  | 5250-111-025-A14   | 7/32  | 5250-111-025-A28   | 7/16  |
|                    |      | 5250-111-016-A06   | 3/32  | 5250-111-020-011   | 11    | 5250-111-025-A16   | 1/4   | 5250-111-025-A30   | 15/32 |
|                    |      | 5250-111-016-A08   | 1/8   | 5250-111-020-011.5 | 11.5  | 5250-111-025-A18   | 9/32  | 5250-111-025-32    | 1/2   |
|                    |      | 5250-111-016-A10   | 5/32  | 5250-111-020-012   | 12    | 5250-111-025-A20   | 5/16  | 5250-111-025-A34   | 17/32 |
|                    |      | 5250-111-016-A12   | 3/16  | 5250-111-020-012.5 | 12.5  | 5250-111-025-A22   | 11/32 | 5250-111-025-A36   | 9/16  |
|                    |      | 5250-111-016-A14   | 7/32  | 5250-111-020-013   | 13    | 5250-111-025-A24   | 3/8   | 5250-111-025-A38   | 19/32 |
|                    |      | 5250-111-016-A16   | 1/4   | <b>INCHES</b>      |       | 5250-111-025-A26   | 13/32 | 5250-111-025-A40   | 5/8   |
|                    |      | 5250-111-016-A18   | 9/32  | 5250-111-020-A08   | 1/8   |                    |       |                    |       |
|                    |      | 5250-111-016-A20   | 5/16  | 5250-111-020-A10   | 5/32  |                    |       |                    |       |
|                    |      | 5250-111-016-A22   | 11/32 | 5250-111-020-A12   | 3/16  |                    |       |                    |       |
|                    |      | 5250-111-016-A24   | 3/8   | 5250-111-020-A14   | 7/32  |                    |       |                    |       |
|                    |      | 5250-111-016-A26   | 13/32 | 5250-111-020-A16   | 1/4   |                    |       |                    |       |
|                    |      |                    |       | 5250-111-020-A18   | 9/32  |                    |       |                    |       |
|                    |      |                    |       | 5250-111-020-A20   | 5/16  |                    |       |                    |       |
|                    |      |                    |       | 5250-111-020-A22   | 11/32 |                    |       |                    |       |
|                    |      |                    |       | 5250-111-020-A24   | 3/8   |                    |       |                    |       |
|                    |      |                    |       | 5250-111-020-A26   | 13/32 |                    |       |                    |       |
|                    |      |                    |       | 5250-111-020-A28   | 7/16  |                    |       |                    |       |
|                    |      |                    |       | 5250-111-020-A30   | 15/32 |                    |       |                    |       |
|                    |      |                    |       | 5250-111-020-A32   | 1/2   |                    |       |                    |       |

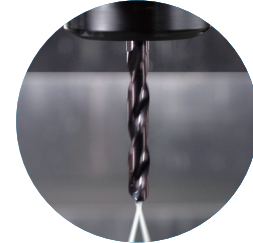
## Features:

- ▶ Runout accuracy: 10 $\mu$ m, R class 7 $\mu$ m, UP class 5 $\mu$ m, P class 3 $\mu$ m.
- ▶ Surface roughness: Ra<0.25 $\mu$ m.
- ▶ Used for coolant-through cutting tools.
- ▶ Water pressure up to 150 kgf/cm<sup>2</sup>(1400PSI).
- ▶ Only for tool shank with h6 tolerance and no flexible chucking range.

# ERS METALLIC SEALED COLLET

ERS 直溝止水筒夾

(DIN ISO 15488)



| ERS32              |       |                    |       |
|--------------------|-------|--------------------|-------|
| MODEL NO.          | SIZE  | MODEL NO.          | SIZE  |
| 5250-111-032-003   | 3     | 5250-111-032-012   | 12    |
| 5250-111-032-003.5 | 3.5   | 5250-111-032-012.5 | 12.5  |
| 5250-111-032-004   | 4     | 5250-111-032-013   | 13    |
| 5250-111-032-004.5 | 4.5   | 5250-111-032-013.5 | 13.5  |
| 5250-111-032-005   | 5     | 5250-111-032-014   | 14    |
| 5250-111-032-005.5 | 5.5   | 5250-111-032-014.5 | 14.5  |
| 5250-111-032-006   | 6     | 5250-111-032-015   | 15    |
| 5250-111-032-006.5 | 6.5   | 5250-111-032-015.5 | 15.5  |
| 5250-111-032-007   | 7     | 5250-111-032-016   | 16    |
| 5250-111-032-007.5 | 7.5   | 5250-111-032-016.5 | 16.5  |
| 5250-111-032-008   | 8     | 5250-111-032-017   | 17    |
| 5250-111-032-008.5 | 8.5   | 5250-111-032-017.5 | 17.5  |
| 5250-111-032-009   | 9     | 5250-111-032-018   | 18    |
| 5250-111-032-009.5 | 9.5   | 5250-111-032-018.5 | 18.5  |
| 5250-111-032-010   | 10    | 5250-111-032-019   | 19    |
| 5250-111-032-010.5 | 10.5  | 5250-111-032-019.5 | 19.5  |
| 5250-111-032-011   | 11    | 5250-111-032-020   | 20    |
| 5250-111-032-011.5 | 11.5  |                    |       |
| 5250-111-032-A14   | 7/32  | 5250-111-032-A32   | 1/2   |
| 5250-111-032-A16   | 1/4   | 5250-111-032-A34   | 17/32 |
| 5250-111-032-A18   | 9/32  | 5250-111-032-A36   | 9/16  |
| 5250-111-032-A20   | 5/16  | 5250-111-032-A38   | 19/32 |
| 5250-111-032-A22   | 11/32 | 5250-111-032-A40   | 5/8   |
| 5250-111-032-A24   | 3/8   | 5250-111-032-A42   | 21/32 |
| 5250-111-032-A26   | 13/32 | 5250-111-032-A44   | 11/16 |
| 5250-111-032-A28   | 7/16  | 5250-111-032-A46   | 23/32 |
| 5250-111-032-A30   | 15/32 | 5250-111-032-A48   | 3/4   |

| ERS40              |       |                    |       |
|--------------------|-------|--------------------|-------|
| MODEL NO.          | SIZE  | MODEL NO.          | SIZE  |
| 5250-111-040-003   | 3     | 5250-111-040-015   | 15    |
| 5250-111-040-003.5 | 3.5   | 5250-111-040-015.5 | 15.5  |
| 5250-111-040-004   | 4     | 5250-111-040-016   | 16    |
| 5250-111-040-004.5 | 4.5   | 5250-111-040-016.5 | 16.5  |
| 5250-111-040-005   | 5     | 5250-111-040-017   | 17    |
| 5250-111-040-005.5 | 5.5   | 5250-111-040-017.5 | 17.5  |
| 5250-111-040-006   | 6     | 5250-111-040-018   | 18    |
| 5250-111-040-006.5 | 6.5   | 5250-111-040-018.5 | 18.5  |
| 5250-111-040-007   | 7     | 5250-111-040-019   | 19    |
| 5250-111-040-007.5 | 7.5   | 5250-111-040-019.5 | 19.5  |
| 5250-111-040-008   | 8     | 5250-111-040-020   | 20    |
| 5250-111-040-008.5 | 8.5   | 5250-111-040-020.5 | 20.5  |
| 5250-111-040-009   | 9     | 5250-111-040-021   | 21    |
| 5250-111-040-009.5 | 9.5   | 5250-111-040-021.5 | 21.5  |
| 5250-111-040-010   | 10    | 5250-111-040-022   | 22    |
| 5250-111-040-010.5 | 10.5  | 5250-111-040-022.5 | 22.5  |
| 5250-111-040-011   | 11    | 5250-111-040-023   | 23    |
| 5250-111-040-011.5 | 11.5  | 5250-111-040-023.5 | 23.5  |
| 5250-111-040-012   | 12    | 5250-111-040-024   | 24    |
| 5250-111-040-012.5 | 12.5  | 5250-111-040-024.5 | 24.5  |
| 5250-111-040-013   | 13    | 5250-111-040-025   | 25    |
| 5250-111-040-013.5 | 13.5  | 5250-111-040-025.5 | 25.5  |
| 5250-111-040-014   | 14    | 5250-111-040-026   | 26    |
| 5250-111-040-014.5 | 14.5  |                    |       |
| 5250-111-040-A14   | 7/32  | 5250-111-040-A34   | 17/32 |
| 5250-111-040-A16   | 1/4   | 5250-111-040-A36   | 9/16  |
| 5250-111-040-A18   | 9/32  | 5250-111-040-A38   | 19/32 |
| 5250-111-040-A20   | 5/16  | 5250-111-040-A40   | 5/8   |
| 5250-111-040-A22   | 11/32 | 5250-111-040-A42   | 21/32 |
| 5250-111-040-A24   | 3/8   | 5250-111-040-A44   | 11/16 |
| 5250-111-040-A26   | 13/32 | 5250-111-040-A46   | 23/32 |
| 5250-111-040-A28   | 7/16  | 5250-111-040-A48   | 3/4   |
| 5250-111-040-A30   | 15/32 | 5250-111-040-A56   | 7/8   |
| 5250-111-040-A32   | 1/2   | 5250-111-040-A64   | 1     |

**Features:**

- ▶ Runout accuracy: 10µm, R class 7µm, UP class 5µm, P class 3µm.
- ▶ Surface roughness: Ra<0.25µm.
- ▶ Used for coolant-through cutting tools.
- ▶ Water pressure up to 150 kgf/cm<sup>2</sup>(1400PSI).
- ▶ Only for tool shank with h6 tolerance and no flexible chucking range.





# ERS COOLANT COLLET FID TYPE

ERS 直溝出水筒夾 [FID型]

(DIN ISO 15488)



| ERS11 - FID        |      | ERS16 - FID        |       | ERS20 - FID        |       | ERS25 - FID        |       |                    |       |
|--------------------|------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|
| MODEL NO.          | SIZE | MODEL NO.          | SIZE  | MODEL NO.          | SIZE  | MODEL NO.          | SIZE  | MODEL NO.          | SIZE  |
| 5250-188-011-003   | 3    | 5250-188-016-003   | 3     | 5250-188-020-003   | 3     | 5250-188-025-003   | 3     | 5250-188-025-010   | 10    |
| 5250-188-011-003.5 | 3.5  | 5250-188-016-003.5 | 3.5   | 5250-188-020-003.5 | 3.5   | 5250-188-025-003.5 | 3.5   | 5250-188-025-010.5 | 10.5  |
| 5250-188-011-004   | 4    | 5250-188-016-004   | 4     | 5250-188-020-004   | 4     | 5250-188-025-004   | 4     | 5250-188-025-011   | 11    |
| 5250-188-011-004.5 | 4.5  | 5250-188-016-004.5 | 4.5   | 5250-188-020-004.5 | 4.5   | 5250-188-025-004.5 | 4.5   | 5250-188-025-011.5 | 11.5  |
| 5250-188-011-005   | 5    | 5250-188-016-005   | 5     | 5250-188-020-005   | 5     | 5250-188-025-005   | 5     | 5250-188-025-012   | 12    |
| 5250-188-011-005.5 | 5.5  | 5250-188-016-005.5 | 5.5   | 5250-188-020-005.5 | 5.5   | 5250-188-025-005.5 | 5.5   | 5250-188-025-012.5 | 12.5  |
| 5250-188-011-006   | 6    | 5250-188-016-006   | 6     | 5250-188-020-006   | 6     | 5250-188-025-006   | 6     | 5250-188-025-013   | 13    |
| 5250-188-011-006.5 | 6.5  | 5250-188-016-006.5 | 6.5   | 5250-188-020-006.5 | 6.5   | 5250-188-025-006.5 | 6.5   | 5250-188-025-013.5 | 13.5  |
| 5250-188-011-007   | 7    | 5250-188-016-007   | 7     | 5250-188-020-007   | 7     | 5250-188-025-007   | 7     | 5250-188-025-014   | 14    |
| <b>INCHES</b>      |      | 5250-188-016-007.5 | 7.5   | 5250-188-020-007.5 | 7.5   | 5250-188-025-007.5 | 7.5   | 5250-188-025-014.5 | 14.5  |
| 5250-188-011-A06   | 3/32 | 5250-188-016-008   | 8     | 5250-188-020-008   | 8     | 5250-188-025-008   | 8     | 5250-188-025-015   | 15    |
| 5250-188-011-A08   | 1/8  | 5250-188-016-008.5 | 8.5   | 5250-188-020-008.5 | 8.5   | 5250-188-025-008.5 | 8.5   | 5250-188-025-015.5 | 15.5  |
| 5250-188-011-A10   | 5/32 | 5250-188-016-009   | 9     | 5250-188-020-009   | 9     | 5250-188-025-009   | 9     | 5250-188-025-016   | 16    |
| 5250-188-011-A12   | 3/16 | 5250-188-016-009.5 | 9.5   | 5250-188-020-009.5 | 9.5   | 5250-188-025-009.5 | 9.5   |                    |       |
| 5250-188-011-A14   | 7/32 | 5250-188-016-010   | 10    | 5250-188-020-010   | 10    | <b>INCHES</b>      |       |                    |       |
| 5250-188-011-A16   | 1/4  | <b>INCHES</b>      |       | 5250-188-020-010.5 | 10.5  | 5250-188-025-A14   | 7/32  | 5250-188-025-A28   | 7/16  |
|                    |      | 5250-188-016-A06   | 3/32  | 5250-188-020-011   | 11    | 5250-188-025-A16   | 1/4   | 5250-188-025-A30   | 15/32 |
|                    |      | 5250-188-016-A08   | 1/8   | 5250-188-020-011.5 | 11.5  | 5250-188-025-A18   | 9/32  | 5250-188-025-A32   | 1/2   |
|                    |      | 5250-188-016-A10   | 5/32  | 5250-188-020-012   | 12    | 5250-188-025-A20   | 5/16  | 5250-188-025-A34   | 17/32 |
|                    |      | 5250-188-016-A12   | 3/16  | 5250-188-020-012.5 | 12.5  | 5250-188-025-A22   | 11/32 | 5250-188-025-A36   | 9/16  |
|                    |      | 5250-188-016-A14   | 7/32  | 5250-188-020-013   | 13    | 5250-188-025-A24   | 3/8   | 5250-188-025-A38   | 19/32 |
|                    |      | 5250-188-016-A16   | 1/4   | <b>INCHES</b>      |       | 5250-188-025-A26   | 13/32 | 5250-188-025-A40   | 5/8   |
|                    |      | 5250-188-016-A18   | 9/32  | 5250-188-020-A08   | 1/8   |                    |       |                    |       |
|                    |      | 5250-188-016-A20   | 5/16  | 5250-188-020-A10   | 5/32  |                    |       |                    |       |
|                    |      | 5250-188-016-A22   | 11/32 | 5250-188-020-A12   | 3/16  |                    |       |                    |       |
|                    |      | 5250-188-016-A24   | 3/8   | 5250-188-020-A14   | 7/32  |                    |       |                    |       |
|                    |      | 5250-188-016-A26   | 13/32 | 5250-188-020-A16   | 1/4   |                    |       |                    |       |
|                    |      |                    |       | 5250-188-020-A18   | 9/32  |                    |       |                    |       |
|                    |      |                    |       | 5250-188-020-A20   | 5/16  |                    |       |                    |       |
|                    |      |                    |       | 5250-188-020-A22   | 11/32 |                    |       |                    |       |
|                    |      |                    |       | 5250-188-020-A24   | 3/8   |                    |       |                    |       |

**Features:**

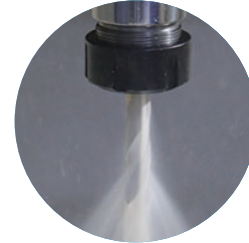
- ▶ Runout accuracy: 10µm, R class 7µm, UP class 5µm, P class 3µm.
- ▶ Surface roughness: Ra<0.25µm.
- ▶ Used for cutting tools without coolant holes.
- ▶ Water pressure up to 150 kgf/cm<sup>2</sup>(1400PSI).
- ▶ Only for tool shank with h6 tolerance and no flexible chucking range.



# ERS COOLANT COLLET FID TYPE

ERS 直溝出水筒夾 [FID型]

(DIN ISO 15488)



| ERS32 - FID        |      |                    |      |
|--------------------|------|--------------------|------|
| MODEL NO.          | SIZE | MODEL NO.          | SIZE |
| 5250-188-032-003   | 3    | 5250-188-032-012   | 12   |
| 5250-188-032-003.5 | 3.5  | 5250-188-032-012.5 | 12.5 |
| 5250-188-032-004   | 4    | 5250-188-032-013   | 13   |
| 5250-188-032-004.5 | 4.5  | 5250-188-032-013.5 | 13.5 |
| 5250-188-032-005   | 5    | 5250-188-032-014   | 14   |
| 5250-188-032-005.5 | 5.5  | 5250-188-032-014.5 | 14.5 |
| 5250-188-032-006   | 6    | 5250-188-032-015   | 15   |
| 5250-188-032-006.5 | 6.5  | 5250-188-032-015.5 | 15.5 |
| 5250-188-032-007   | 7    | 5250-188-032-016   | 16   |
| 5250-188-032-007.5 | 7.5  | 5250-188-032-016.5 | 16.5 |
| 5250-188-032-008   | 8    | 5250-188-032-017   | 17   |
| 5250-188-032-008.5 | 8.5  | 5250-188-032-017.5 | 17.5 |
| 5250-188-032-009   | 9    | 5250-188-032-018   | 18   |
| 5250-188-032-009.5 | 9.5  | 5250-188-032-018.5 | 18.5 |
| 5250-188-032-010   | 10   | 5250-188-032-019   | 19   |
| 5250-188-032-010.5 | 10.5 | 5250-188-032-019.5 | 19.5 |
| 5250-188-032-011   | 11   | 5250-188-032-020   | 20   |
| 5250-188-032-011.5 | 11.5 |                    |      |

**INCHES**

|                  |       |                  |       |
|------------------|-------|------------------|-------|
| 5250-188-032-A14 | 7/32  | 5250-188-032-A32 | 1/2   |
| 5250-188-032-A16 | 1/4   | 5250-188-032-A34 | 17/32 |
| 5250-188-032-A18 | 9/32  | 5250-188-032-A36 | 9/16  |
| 5250-188-032-A20 | 5/16  | 5250-188-032-A38 | 19/32 |
| 5250-188-032-A22 | 11/32 | 5250-188-032-A40 | 5/8   |
| 5250-188-032-A24 | 3/8   | 5250-188-032-A42 | 21/32 |
| 5250-188-032-A26 | 13/32 | 5250-188-032-A44 | 11/16 |
| 5250-188-032-A28 | 7/16  | 5250-188-032-A46 | 23/32 |
| 5250-188-032-A30 | 15/32 | 5250-188-032-A48 | 3/4   |

| ERS40 - FID        |      |                    |      |
|--------------------|------|--------------------|------|
| MODEL NO.          | SIZE | MODEL NO.          | SIZE |
| 5250-188-040-003   | 3    | 5250-188-040-015   | 15   |
| 5250-188-040-003.5 | 3.5  | 5250-188-040-015.5 | 15.5 |
| 5250-188-040-004   | 4    | 5250-188-040-016   | 16   |
| 5250-188-040-004.5 | 4.5  | 5250-188-040-016.5 | 16.5 |
| 5250-188-040-005   | 5    | 5250-188-040-017.5 | 17   |
| 5250-188-040-005.5 | 5.5  | 5250-188-040-017.5 | 17.5 |
| 5250-188-040-006   | 6    | 5250-188-040-018   | 18   |
| 5250-188-040-006.5 | 6.5  | 5250-188-040-018.5 | 18.5 |
| 5250-188-040-007   | 7    | 5250-188-040-019   | 19   |
| 5250-188-040-007.5 | 7.5  | 5250-188-040-019.5 | 19.5 |
| 5250-188-040-008   | 8    | 5250-188-040-020   | 20   |
| 5250-188-040-008.5 | 8.5  | 5250-188-040-020.5 | 20.5 |
| 5250-188-040-009   | 9    | 5250-188-040-021   | 21   |
| 5250-188-040-009.5 | 9.5  | 5250-188-040-021.5 | 21.5 |
| 5250-188-040-010   | 10   | 5250-188-040-022   | 22   |
| 5250-188-040-010.5 | 10.5 | 5250-188-040-022.5 | 22.5 |
| 5250-188-040-011   | 11   | 5250-188-040-023   | 23   |
| 5250-188-040-011.5 | 11.5 | 5250-188-040-023.5 | 23.5 |
| 5250-188-040-012   | 12   | 5250-188-040-024   | 24   |
| 5250-188-040-012.5 | 12.5 | 5250-188-040-024.5 | 24.5 |
| 5250-188-040-013   | 13   | 5250-188-040-025   | 25   |
| 5250-188-040-013.5 | 13.5 | 5250-188-040-025.5 | 25.5 |
| 5250-188-040-014   | 14   | 5250-188-040-026   | 26   |
| 5250-188-040-014.5 | 14.5 |                    |      |

**INCHES**

|                  |       |                  |       |
|------------------|-------|------------------|-------|
| 5250-188-040-A14 | 7/32  | 5250-188-040-A34 | 17/32 |
| 5250-188-040-A16 | 1/4   | 5250-188-040-A36 | 9/16  |
| 5250-188-040-A18 | 9/32  | 5250-188-040-A38 | 19/32 |
| 5250-188-040-A20 | 5/16  | 5250-188-040-A40 | 5/8   |
| 5250-188-040-A22 | 11/32 | 5250-188-040-A42 | 21/32 |
| 5250-188-040-A24 | 3/8   | 5250-188-040-A44 | 11/16 |
| 5250-188-040-A26 | 13/32 | 5250-188-040-A46 | 23/32 |
| 5250-188-040-A28 | 7/16  | 5250-188-040-A48 | 3/4   |
| 5250-188-040-A30 | 15/32 | 5250-188-040-A56 | 7/8   |
| 5250-188-040-A32 | 1/2   | 5250-188-040-A64 | 1     |

**Features:**

- ▶ Runout accuracy: 10µm, R class 7µm, UP class 5µm, P class 3µm.
- ▶ Surface roughness: Ra<0.25µm.
- ▶ Used for cutting tools without coolant holes.
- ▶ Water pressure up to 150 kgf/cm<sup>2</sup>(1400PSI).
- ▶ Only for tool shank with h6 tolerance and no flexible chucking range.



# ERS COOLANT COLLET FOD TYPE

ERS 直溝出水筒夾 [FOD型]

(DIN ISO 15488)



| ERS11 - FOD        |      | ERS16 - FOD        |      | ERS20 - FOD        |       | ERS25 - FOD        |       |                    |       |
|--------------------|------|--------------------|------|--------------------|-------|--------------------|-------|--------------------|-------|
| MODEL NO.          | SIZE | MODEL NO.          | SIZE | MODEL NO.          | SIZE  | MODEL NO.          | SIZE  | MODEL NO.          | SIZE  |
| 5250-112-011-003   | 3    | 5250-112-016-003   | 3    | 5250-112-020-003   | 3     | 5250-112-025-003   | 3     | 5250-112-025-009   | 9     |
| 5250-112-011-003.5 | 3.5  | 5250-112-016-003.5 | 3.5  | 5250-112-020-003.5 | 3.5   | 5250-112-025-003.5 | 3.5   | 5250-112-025-009.5 | 9.5   |
| 5250-112-011-004   | 4    | 5250-112-016-004   | 4    | 5250-112-020-004   | 4     | 5250-112-025-004   | 4     | 5250-112-025-010   | 10    |
| 5250-112-011-004.5 | 4.5  | 5250-112-016-004.5 | 4.5  | 5250-112-020-004.5 | 4.5   | 5250-112-025-004.5 | 4.5   | 5250-112-025-010.5 | 10.5  |
| 5250-112-011-005   | 5    | 5250-112-016-005   | 5    | 5250-112-020-005   | 5     | 5250-112-025-005   | 5     | 5250-112-025-011   | 11    |
| <b>INCHES</b>      |      | 5250-112-016-005.5 | 5.5  | 5250-112-020-005.5 | 5.5   | 5250-112-025-005.5 | 5.5   | 5250-112-025-011.5 | 11.5  |
| 5250-112-011-A06   | 3/32 | 5250-112-016-006   | 6    | 5250-112-020-006   | 6     | 5250-112-025-006   | 6     | 5250-112-025-012   | 12    |
| 5250-112-011-A08   | 1/8  | 5250-112-016-006.5 | 6.5  | 5250-112-020-006.5 | 6.5   | 5250-112-025-006.5 | 6.5   | 5250-112-025-012.5 | 12.5  |
| 5250-112-011-A10   | 5/32 | 5250-112-016-007   | 7    | 5250-112-020-007   | 7     | 5250-112-025-007   | 7     | 5250-112-025-013   | 13    |
| 5250-112-011-A12   | 3/16 | <b>INCHES</b>      |      | 5250-112-020-007.5 | 7.5   | 5250-112-025-007.5 | 7.5   | 5250-112-025-013.5 | 13.5  |
| 5250-112-011-A14   | 7/32 | 5250-112-016-A06   | 3/32 | 5250-112-020-008   | 8     | 5250-112-025-008   | 8     | 5250-112-025-014   | 14    |
| 5250-112-011-A16   | 1/4  | 5250-112-016-A08   | 1/8  | 5250-112-020-008.5 | 8.5   | 5250-112-025-008.5 | 8.5   |                    |       |
|                    |      | 5250-112-016-A10   | 5/32 | 5250-112-020-009   | 9     | <b>INCHES</b>      |       |                    |       |
|                    |      | 5250-112-016-A12   | 3/16 | <b>INCHES</b>      |       | 5250-112-025-A14   | 7/32  | 5250-112-025-A26   | 13/32 |
|                    |      | 5250-112-016-A14   | 7/32 | 5250-112-020-A08   | 1/8   | 5250-112-025-A16   | 1/4   | 5250-112-025-A28   | 7/16  |
|                    |      | 5250-112-016-A16   | 1/4  | 5250-112-020-A10   | 5/32  | 5250-112-025-A18   | 9/32  | 5250-112-025-A30   | 15/32 |
|                    |      | 5250-112-016-A18   | 9/32 | 5250-112-020-A12   | 3/16  | 5250-112-025-A20   | 5/16  | 5250-112-025-A32   | 1/2   |
|                    |      | 5250-112-016-A20   | 5/16 | 5250-112-020-A14   | 7/32  | 5250-112-025-A22   | 11/32 | 5250-112-025-A34   | 17/32 |
|                    |      |                    |      | 5250-112-020-A16   | 1/4   | 5250-112-025-A24   | 3/8   | 5250-112-025-A36   | 9/16  |
|                    |      |                    |      | 5250-112-020-A18   | 9/32  |                    |       |                    |       |
|                    |      |                    |      | 5250-112-020-A20   | 5/16  |                    |       |                    |       |
|                    |      |                    |      | 5250-112-020-A22   | 11/32 |                    |       |                    |       |
|                    |      |                    |      | 5250-112-020-A24   | 3/8   |                    |       |                    |       |

**Features:**

- ▶ Runout accuracy: 10µm, R class 7µm, UP class 5µm, P class 3µm.
- ▶ Surface roughness: Ra<0.25µm.
- ▶ Used for cutting tools without coolant holes.
- ▶ Water pressure up to 150 kgf/cm<sup>2</sup>(1400PSI).
- ▶ Only for tool shank with h6 tolerance and no flexible chucking range.



# ERS COOLANT COLLET FOD TYPE

ERS 直溝出水筒夾 [FOD型]

(DIN ISO 15488)



| ERS32 - FOD        |       |                    |       |
|--------------------|-------|--------------------|-------|
| MODEL NO.          | SIZE  | MODEL NO.          | SIZE  |
| 5250-112-032-003   | 3     | 5250-112-032-012   | 12    |
| 5250-112-032-003.5 | 3.5   | 5250-112-032-012.5 | 12.5  |
| 5250-112-032-004   | 4     | 5250-112-032-013   | 13    |
| 5250-112-032-004.5 | 4.5   | 5250-112-032-013.5 | 13.5  |
| 5250-112-032-005   | 5     | 5250-112-032-014   | 14    |
| 5250-112-032-005.5 | 5.5   | 5250-112-032-014.5 | 14.5  |
| 5250-112-032-006   | 6     | 5250-112-032-015   | 15    |
| 5250-112-032-006.5 | 6.5   | 5250-112-032-015.5 | 15.5  |
| 5250-112-032-007   | 7     | 5250-112-032-016   | 16    |
| 5250-112-032-007.5 | 7.5   | 5250-112-032-016.5 | 16.5  |
| 5250-112-032-008   | 8     | 5250-112-032-017   | 17    |
| 5250-112-032-008.5 | 8.5   | 5250-112-032-017.5 | 17.5  |
| 5250-112-032-009   | 9     | 5250-112-032-018   | 18    |
| 5250-112-032-009.5 | 9.5   | 5250-112-032-018.5 | 18.5  |
| 5250-112-032-010   | 10    | 5250-112-032-019   | 19    |
| 5250-112-032-010.5 | 10.5  | 5250-112-032-019.5 | 19.5  |
| 5250-112-032-011   | 11    | 5250-112-032-020   | 20    |
| 5250-112-032-011.5 | 11.5  |                    |       |
| 5250-112-032-A14   | 7/32  | 5250-112-032-A32   | 1/2   |
| 5250-112-032-A16   | 1/4   | 5250-112-032-A34   | 17/32 |
| 5250-112-032-A18   | 9/32  | 5250-112-032-A36   | 9/16  |
| 5250-112-032-A20   | 5/16  | 5250-112-032-A38   | 19/32 |
| 5250-112-032-A22   | 11/32 | 5250-112-032-A40   | 5/8   |
| 5250-112-032-A24   | 3/8   | 5250-112-032-A42   | 21/32 |
| 5250-112-032-A26   | 13/32 | 5250-112-032-A44   | 11/16 |
| 5250-112-032-A28   | 7/16  | 5250-112-032-A46   | 23/32 |
| 5250-112-032-A30   | 15/32 | 5250-112-032-A48   | 3/4   |

| ERS40 - FOD        |      |                    |      |
|--------------------|------|--------------------|------|
| MODEL NO.          | SIZE | MODEL NO.          | SIZE |
| 5250-112-040-003   | 3    | 5250-112-040-015   | 15   |
| 5250-112-040-003.5 | 3.5  | 5250-112-040-015.5 | 15.5 |
| 5250-112-040-004   | 4    | 5250-112-040-016   | 16   |
| 5250-112-040-004.5 | 4.5  | 5250-112-040-016.5 | 16.5 |
| 5250-112-040-005   | 5    | 5250-112-040-017   | 17   |
| 5250-112-040-005.5 | 5.5  | 5250-112-040-017.5 | 17.5 |
| 5250-112-040-006   | 6    | 5250-112-040-018   | 18   |
| 5250-112-040-006.5 | 6.5  | 5250-112-040-018.5 | 18.5 |
| 5250-112-040-007   | 7    | 5250-112-040-019   | 19   |
| 5250-112-040-007.5 | 7.5  | 5250-112-040-019.5 | 19.5 |
| 5250-112-040-008   | 8    | 5250-112-040-020   | 20   |
| 5250-112-040-008.5 | 8.5  | 5250-112-040-020.5 | 20.5 |
| 5250-112-040-009   | 9    | 5250-112-040-021   | 21   |
| 5250-112-040-009.5 | 9.5  | 5250-112-040-021.5 | 21.5 |
| 5250-112-040-010   | 10   | 5250-112-040-022   | 22   |
| 5250-112-040-010.5 | 10.5 | 5250-112-040-022.5 | 22.5 |
| 5250-112-040-011   | 11   | 5250-112-040-023   | 23   |
| 5250-112-040-011.5 | 11.5 | 5250-112-040-023.5 | 23.5 |
| 5250-112-040-012   | 12   | 5250-112-040-024   | 24   |
| 5250-112-040-012.5 | 12.5 | 5250-112-040-024.5 | 24.5 |
| 5250-112-040-013   | 13   | 5250-112-040-025   | 25   |
| 5250-112-040-013.5 | 13.5 | 5250-112-040-025.5 | 25.5 |
| 5250-112-040-014   | 14   | 5250-112-040-026   | 26   |
| 5250-112-040-014.5 | 14.5 |                    |      |

## INCHES

|                  |       |                  |       |
|------------------|-------|------------------|-------|
| 5250-112-040-A14 | 7/32  | 5250-112-040-A34 | 17/32 |
| 5250-112-040-A16 | 1/4   | 5250-112-040-A36 | 9/16  |
| 5250-112-040-A18 | 9/32  | 5250-112-040-A38 | 19/32 |
| 5250-112-040-A20 | 5/16  | 5250-112-040-A40 | 5/8   |
| 5250-112-040-A22 | 11/32 | 5250-112-040-A42 | 21/32 |
| 5250-112-040-A24 | 3/8   | 5250-112-040-A44 | 11/16 |
| 5250-112-040-A26 | 13/32 | 5250-112-040-A46 | 23/32 |
| 5250-112-040-A28 | 7/16  | 5250-112-040-A48 | 3/4   |
| 5250-112-040-A30 | 15/32 | 5250-112-040-A56 | 7/8   |
| 5250-112-040-A32 | 1/2   | 5250-112-040-A64 | 1     |

### Features:

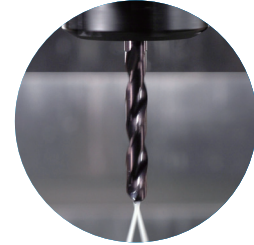
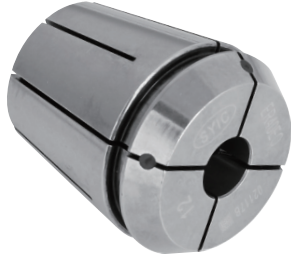
- ▶ Runout accuracy: 10µm, R class 7µm, UP class 5µm, P class 3µm.
- ▶ Surface roughness: Ra<0.25µm.
- ▶ Used for cutting tools without coolant holes.
- ▶ Water pressure up to 150 kgf/cm<sup>2</sup>(1400PSI).
- ▶ Only for tool shank with h6 tolerance and no flexible chucking range.



# ER - EO SEALED COLLET

ER - EO 止水筒夾

(DIN ISO 15488)



TW PAT NO. M285418

| ER11EO           |             | ER20EO           |       | ER25EO           |       | ER32EO           |       | ER40EO           |       |                  |       |
|------------------|-------------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|
| MODEL NO.        | SIZE        | MODEL NO.        | SIZE  | MODEL NO.        | SIZE  | MODEL NO.        | SIZE  | MODEL NO.        | SIZE  | MODEL NO.        | SIZE  |
| 5250-115-011-003 | 3           | 5250-115-020-003 | 3     | 5250-115-025-003 | 3     | 5250-115-032-003 | 3     | 5250-115-040-003 | 3     | 5250-115-040-015 | 15    |
| 5250-115-011-004 | 4           | 5250-115-020-004 | 4     | 5250-115-025-004 | 4     | 5250-115-032-004 | 4     | 5250-115-040-004 | 4     | 5250-115-040-016 | 16    |
| 5250-115-011-005 | 5           | 5250-115-020-005 | 5     | 5250-115-025-005 | 5     | 5250-115-032-005 | 5     | 5250-115-040-005 | 5     | 5250-115-040-017 | 17    |
| 5250-115-011-006 | 6           | 5250-115-020-006 | 6     | 5250-115-025-006 | 6     | 5250-115-032-006 | 6     | 5250-115-040-006 | 6     | 5250-115-040-018 | 18    |
| 5250-115-011-007 | 7           | 5250-115-020-007 | 7     | 5250-115-025-007 | 7     | 5250-115-032-007 | 7     | 5250-115-040-007 | 7     | 5250-115-040-019 | 19    |
| <b>INCHES</b>    |             | 5250-115-020-008 | 8     | 5250-115-025-008 | 8     | 5250-115-032-008 | 8     | 5250-115-040-008 | 8     | 5250-115-040-020 | 20    |
| 5250-115-011-A08 | 1/8         | 5250-115-020-009 | 9     | 5250-115-025-009 | 9     | 5250-115-032-009 | 9     | 5250-115-040-009 | 9     | 5250-115-040-021 | 21    |
| 5250-115-011-A10 | 5/32        | 5250-115-020-010 | 10    | 5250-115-025-010 | 10    | 5250-115-032-010 | 10    | 5250-115-040-010 | 10    | 5250-115-040-022 | 22    |
| 5250-115-011-A12 | 3/16        | 5250-115-020-011 | 11    | 5250-115-025-011 | 11    | 5250-115-032-011 | 11    | 5250-115-040-011 | 11    | 5250-115-040-023 | 23    |
| 5250-115-011-A14 | 7/32        | 5250-115-020-012 | 12    | 5250-115-025-012 | 12    | 5250-115-032-012 | 12    | 5250-115-040-012 | 12    | 5250-115-040-024 | 24    |
| 5250-115-011-A16 | 1/4         | 5250-115-020-013 | 13    | 5250-115-025-013 | 13    | 5250-115-032-013 | 13    | 5250-115-040-013 | 13    | 5250-115-040-025 | 25    |
| 5250-115-011-A18 | 9/32        | <b>INCHES</b>    |       | 5250-115-025-014 | 14    | 5250-115-032-014 | 14    | 5250-115-040-014 | 14    | 5250-115-040-026 | 26    |
| <b>ER16EO</b>    |             | 5250-115-020-A08 | 1/8   | 5250-115-025-015 | 15    | 5250-115-032-015 | 15    | <b>INCHES</b>    |       | 5250-115-040-A08 | 1/8   |
| <b>MODEL NO.</b> | <b>SIZE</b> | 5250-115-020-A10 | 5/32  | 5250-115-025-016 | 16    | 5250-115-032-016 | 16    | 5250-115-040-A10 | 5/32  | 5250-115-040-A32 | 1/2   |
| 5250-115-016-003 | 3           | 5250-115-020-A12 | 3/16  | <b>INCHES</b>    |       | 5250-115-032-017 | 17    | 5250-115-040-A12 | 3/16  | 5250-115-040-A34 | 17/32 |
| 5250-115-016-004 | 4           | 5250-115-020-A14 | 7/32  | 5250-115-025-A08 | 1/8   | 5250-115-032-018 | 18    | 5250-115-040-A14 | 7/32  | 5250-115-040-A36 | 9/16  |
| 5250-115-016-005 | 5           | 5250-115-020-A16 | 1/4   | 5250-115-025-A10 | 5/32  | 5250-115-032-019 | 19    | 5250-115-040-A16 | 7/32  | 5250-115-040-A38 | 19/32 |
| 5250-115-016-006 | 6           | 5250-115-020-A18 | 9/32  | 5250-115-025-A12 | 3/16  | 5250-115-032-020 | 20    | 5250-115-040-A18 | 1/4   | 5250-115-040-A40 | 5/8   |
| 5250-115-016-007 | 7           | 5250-115-020-A20 | 5/16  | 5250-115-025-A14 | 7/32  | <b>INCHES</b>    |       | 5250-115-040-A18 | 9/32  | 5250-115-040-A42 | 21/32 |
| 5250-115-016-008 | 8           | 5250-115-020-A22 | 11/32 | 5250-115-025-A16 | 1/4   | 5250-115-032-A08 | 1/8   | 5250-115-040-A20 | 5/16  | 5250-115-040-A44 | 11/16 |
| 5250-115-016-009 | 9           | 5250-115-020-A24 | 3/8   | 5250-115-025-A18 | 9/32  | 5250-115-032-A10 | 5/32  | 5250-115-040-A22 | 11/32 | 5250-115-040-A46 | 23/32 |
| 5250-115-016-010 | 10          | 5250-115-020-A26 | 13/32 | 5250-115-025-A20 | 5/16  | 5250-115-032-A12 | 3/16  | 5250-115-040-A24 | 3/8   | 5250-115-040-A48 | 3/4   |
| <b>INCHES</b>    |             | 5250-115-020-A28 | 7/16  | 5250-115-025-A22 | 11/32 | 5250-115-032-A14 | 7/32  | 5250-115-040-A26 | 13/32 | 5250-115-040-A56 | 7/8   |
| 5250-115-016-A08 | 1/8         | 5250-115-020-A30 | 15/32 | 5250-115-025-A24 | 3/8   | 5250-115-032-A16 | 1/4   | 5250-115-040-A28 | 7/16  | 5250-115-040-A64 | 1     |
| 5250-115-016-A10 | 5/32        | 5250-115-020-A32 | 1/2   | 5250-115-025-A26 | 13/32 | 5250-115-032-A18 | 9/32  | 5250-115-040-A30 | 15/32 |                  |       |
| 5250-115-016-A12 | 3/16        |                  |       | 5250-115-025-A28 | 7/16  | 5250-115-032-A20 | 5/16  |                  |       |                  |       |
| 5250-115-016-A14 | 7/32        |                  |       | 5250-115-025-A30 | 15/32 | 5250-115-032-A22 | 11/32 |                  |       |                  |       |
| 5250-115-016-A16 | 1/4         |                  |       | 5250-115-025-A32 | 1/2   | 5250-115-032-A24 | 3/8   |                  |       |                  |       |
| 5250-115-016-A18 | 9/32        |                  |       | 5250-115-025-A34 | 17/32 | 5250-115-032-A26 | 13/32 |                  |       |                  |       |
| 5250-115-016-A20 | 5/16        |                  |       | 5250-115-025-A36 | 9/16  | 5250-115-032-A28 | 7/16  |                  |       |                  |       |
| 5250-115-016-A22 | 11/32       |                  |       | 5250-115-025-A38 | 19/32 | 5250-115-032-A30 | 15/32 |                  |       |                  |       |
| 5250-115-016-A24 | 3/8         |                  |       | 5250-115-025-A40 | 5/8   | 5250-115-032-A32 | 1/2   |                  |       |                  |       |
| 5250-115-016-A26 | 13/32       |                  |       |                  |       | 5250-115-032-A34 | 17/32 |                  |       |                  |       |
|                  |             |                  |       |                  |       | 5250-115-032-A36 | 9/16  |                  |       |                  |       |
|                  |             |                  |       |                  |       | 5250-115-032-A38 | 19/32 |                  |       |                  |       |
|                  |             |                  |       |                  |       | 5250-115-032-A40 | 5/8   |                  |       |                  |       |
|                  |             |                  |       |                  |       | 5250-115-032-A42 | 21/32 |                  |       |                  |       |
|                  |             |                  |       |                  |       | 5250-115-032-A44 | 11/16 |                  |       |                  |       |
|                  |             |                  |       |                  |       | 5250-115-032-A46 | 23/32 |                  |       |                  |       |
|                  |             |                  |       |                  |       | 5250-115-032-A48 | 3/4   |                  |       |                  |       |

**Features:**

- ▶ Runout accuracy: 15µm, A class 10µm, UP class 5µm.
- ▶ Used for coolant-through cutting tools.
- ▶ The design is to use O-rings to seal and achieve coolant through tools.
- ▶ Water pressure up to 50 kgf/cm<sup>2</sup>.
- ▶ Patent-owned.





# ER COOLANT COLLET FID TYPE

ER - FID 出水筒夾

(DIN ISO 15488)



TW PAT NO. M362073

| ER16 - FID       |      | ER25 - FID       |       | ER32 - FID       |       | ER40 - FID       |       |                  |       |
|------------------|------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|
| MODEL NO.        | SIZE | MODEL NO.        | SIZE  | MODEL NO.        | SIZE  | MODEL NO.        | SIZE  | MODEL NO.        | SIZE  |
| 5250-126-016-003 | 3    | 5250-126-025-003 | 3     | 5250-126-032-003 | 3     | 5250-126-040-004 | 4     | 5250-126-040-016 | 16    |
| 5250-126-016-004 | 4    | 5250-126-025-004 | 4     | 5250-126-032-004 | 4     | 5250-126-040-005 | 5     | 5250-126-040-017 | 17    |
| 5250-126-016-005 | 5    | 5250-126-025-005 | 5     | 5250-126-032-005 | 5     | 5250-126-040-006 | 6     | 5250-126-040-018 | 18    |
| 5250-126-016-006 | 6    | 5250-126-025-006 | 6     | 5250-126-032-006 | 6     | 5250-126-040-007 | 7     | 5250-126-040-019 | 19    |
| 5250-126-016-007 | 7    | 5250-126-025-007 | 7     | 5250-126-032-007 | 7     | 5250-126-040-008 | 8     | 5250-126-040-020 | 20    |
| 5250-126-016-008 | 8    | 5250-126-025-008 | 8     | 5250-126-032-008 | 8     | 5250-126-040-009 | 9     | 5250-126-040-021 | 21    |
| 5250-126-016-009 | 9    | 5250-126-025-009 | 9     | 5250-126-032-009 | 9     | 5250-126-040-010 | 10    | 5250-126-040-022 | 22    |
| <b>INCHES</b>    |      | 5250-126-025-010 | 10    | 5250-126-032-010 | 10    | 5250-126-040-011 | 11    | 5250-126-040-023 | 23    |
| 5250-126-016-A08 | 1/8  | 5250-126-025-011 | 11    | 5250-126-032-011 | 11    | 5250-126-040-012 | 12    | 5250-126-040-024 | 24    |
| 5250-126-016-A10 | 5/32 | 5250-126-025-012 | 12    | 5250-126-032-012 | 12    | 5250-126-040-013 | 13    | 5250-126-040-025 | 25    |
| 5250-126-016-A12 | 3/16 | 5250-126-025-013 | 13    | 5250-126-032-013 | 13    | 5250-126-040-014 | 14    | 5250-126-040-026 | 26    |
| 5250-126-016-A14 | 7/32 | 5250-126-025-014 | 14    | 5250-126-032-014 | 14    | 5250-126-040-015 | 15    |                  |       |
| 5250-126-016-A16 | 1/4  | 5250-126-025-015 | 15    | 5250-126-032-015 | 15    | <b>INCHES</b>    |       |                  |       |
| 5250-126-016-A18 | 9/32 | 5250-126-025-016 | 16    | 5250-126-032-016 | 16    | 5250-126-040-A10 | 5/32  | 5250-126-040-A32 | 1/2   |
| 5250-126-016-A20 | 5/16 | <b>INCHES</b>    |       | 5250-126-032-017 | 17    | 5250-126-040-A12 | 3/16  | 5250-126-040-A34 | 17/32 |
|                  |      | 5250-126-025-A08 | 1/8   | 5250-126-032-018 | 18    | 5250-126-040-A14 | 7/32  | 5250-126-040-A36 | 9/16  |
|                  |      | 5250-126-025-A10 | 5/32  | 5250-126-032-019 | 19    | 5250-126-040-A16 | 1/4   | 5250-126-040-A38 | 19/32 |
|                  |      | 5250-126-025-A12 | 3/16  | 5250-126-032-020 | 20    | 5250-126-040-A18 | 9/32  | 5250-126-040-A40 | 5/8   |
|                  |      | 5250-126-025-A14 | 7/32  | <b>INCHES</b>    |       | 5250-126-040-A20 | 5/16  | 5250-126-040-A42 | 21/32 |
|                  |      | 5250-126-025-A16 | 1/4   | 5250-126-032-A08 | 1/8   | 5250-126-040-A22 | 11/32 | 5250-126-040-A44 | 11/16 |
|                  |      | 5250-126-025-A18 | 9/32  | 5250-126-032-A10 | 5/32  | 5250-126-040-A24 | 3/8   | 5250-126-040-A46 | 23/32 |
|                  |      | 5250-126-025-A20 | 5/16  | 5250-126-032-A12 | 3/16  | 5250-126-040-A26 | 13/32 | 5250-126-040-A48 | 3/4   |
|                  |      | 5250-126-025-A22 | 11/32 | 5250-126-032-A14 | 7/32  | 5250-126-040-A28 | 7/16  | 5250-126-040-A56 | 7/8   |
|                  |      | 5250-126-025-A24 | 3/8   | 5250-126-032-A16 | 1/4   | 5250-126-040-A30 | 15/32 | 5250-126-040-A64 | 1     |
|                  |      | 5250-126-025-A26 | 13/32 | 5250-126-032-A18 | 9/32  |                  |       |                  |       |
|                  |      | 5250-126-025-A28 | 7/16  | 5250-126-032-A20 | 5/16  |                  |       |                  |       |
|                  |      | 5250-126-025-A30 | 15/32 | 5250-126-032-A22 | 11/32 |                  |       |                  |       |
|                  |      | 5250-126-025-A32 | 1/2   | 5250-126-032-A24 | 3/8   |                  |       |                  |       |
|                  |      | 5250-126-025-A34 | 17/32 | 5250-126-032-A26 | 13/32 |                  |       |                  |       |
|                  |      | 5250-126-025-A36 | 9/16  | 5250-126-032-A28 | 7/16  |                  |       |                  |       |
|                  |      |                  |       | 5250-126-032-A30 | 15/32 |                  |       |                  |       |
|                  |      |                  |       | 5250-126-032-A32 | 1/2   |                  |       |                  |       |
|                  |      |                  |       | 5250-126-032-A34 | 17/32 |                  |       |                  |       |
|                  |      |                  |       | 5250-126-032-A36 | 9/16  |                  |       |                  |       |
|                  |      |                  |       | 5250-126-032-A38 | 19/32 |                  |       |                  |       |
|                  |      |                  |       | 5250-126-032-A40 | 5/8   |                  |       |                  |       |
|                  |      |                  |       | 5250-126-032-A42 | 21/32 |                  |       |                  |       |
|                  |      |                  |       | 5250-126-032-A44 | 11/16 |                  |       |                  |       |
|                  |      |                  |       | 5250-126-032-A46 | 23/32 |                  |       |                  |       |
|                  |      |                  |       | 5250-126-032-A48 | 3/4   |                  |       |                  |       |

**Features:**

- ▶ Runout accuracy: 15µm, A class 10µm, UP class 5µm.
- ▶ The design of coolant grooves is good for cooling and metal chips removal, extending tool life.
- ▶ Water pressure up to 50kgf/cm<sup>2</sup>.
- ▶ Used for cutting tools without coolant holes.



# ER COOLANT COLLET FOD TYPE

ER - FOD 出水筒夾

(DIN ISO 15488)



TW PAT NO. M337439  
C N PAT NO. ZL200720007536.1  
C N PAT NO. ZL200820102788.7

| ER16 - FOD       |      |
|------------------|------|
| MODEL NO.        | SIZE |
| 5250-127-016-003 | 3    |
| 5250-127-016-004 | 4    |
| 5250-127-016-005 | 5    |
| 5250-127-016-006 | 6    |
| 5250-127-016-007 | 7    |

**INCHES**

|                  |      |
|------------------|------|
| 5250-127-016-A08 | 1/8  |
| 5250-127-016-A10 | 5/32 |
| 5250-127-016-A12 | 3/16 |
| 5250-127-016-A14 | 7/32 |
| 5250-127-016-A16 | 1/4  |
| 5250-127-016-A18 | 9/32 |
| 5250-127-016-A20 | 5/16 |

| ER20 - FOD       |      |
|------------------|------|
| MODEL NO.        | SIZE |
| 5250-127-020-003 | 3    |
| 5250-127-020-004 | 4    |
| 5250-127-020-005 | 5    |
| 5250-127-020-006 | 6    |
| 5250-127-020-007 | 7    |
| 5250-127-020-008 | 8    |
| 5250-127-020-009 | 9    |

**INCHES**

|                  |       |
|------------------|-------|
| 5250-127-020-A08 | 1/8   |
| 5250-127-020-A10 | 5/32  |
| 5250-127-020-A12 | 3/16  |
| 5250-127-020-A14 | 7/32  |
| 5250-127-020-A16 | 1/4   |
| 5250-127-020-A18 | 9/32  |
| 5250-127-020-A20 | 5/16  |
| 5250-127-020-A22 | 11/32 |
| 5250-127-020-A24 | 3/8   |

| ER25 - FOD       |      |
|------------------|------|
| MODEL NO.        | SIZE |
| 5250-127-025-003 | 3    |
| 5250-127-025-004 | 4    |
| 5250-127-025-005 | 5    |
| 5250-127-025-006 | 6    |
| 5250-127-025-007 | 7    |
| 5250-127-025-008 | 8    |
| 5250-127-025-009 | 9    |
| 5250-127-025-010 | 10   |
| 5250-127-025-011 | 11   |
| 5250-127-025-012 | 12   |
| 5250-127-025-013 | 13   |
| 5250-127-025-014 | 14   |

**INCHES**

|                  |       |
|------------------|-------|
| 5250-127-025-A08 | 1/8   |
| 5250-127-025-A10 | 5/32  |
| 5250-127-025-A12 | 3/16  |
| 5250-127-025-A14 | 7/32  |
| 5250-127-025-A16 | 1/4   |
| 5250-127-025-A18 | 9/32  |
| 5250-127-025-A20 | 5/16  |
| 5250-127-025-A22 | 11/32 |
| 5250-127-025-A24 | 3/8   |
| 5250-127-025-A26 | 13/32 |
| 5250-127-025-A28 | 7/16  |
| 5250-127-025-A30 | 15/32 |
| 5250-127-025-A32 | 1/2   |
| 5250-127-025-A34 | 17/32 |
| 5250-127-025-A36 | 9/16  |

| ER32 - FOD       |      |
|------------------|------|
| MODEL NO.        | SIZE |
| 5250-127-032-003 | 3    |
| 5250-127-032-004 | 4    |
| 5250-127-032-005 | 5    |
| 5250-127-032-006 | 6    |
| 5250-127-032-007 | 7    |
| 5250-127-032-008 | 8    |
| 5250-127-032-009 | 9    |
| 5250-127-032-010 | 10   |
| 5250-127-032-011 | 11   |
| 5250-127-032-012 | 12   |
| 5250-127-032-013 | 13   |
| 5250-127-032-014 | 14   |
| 5250-127-032-015 | 15   |

**INCHES**

|                  |       |
|------------------|-------|
| 5250-127-032-A08 | 1/8   |
| 5250-127-032-A10 | 5/32  |
| 5250-127-032-A12 | 3/16  |
| 5250-127-032-A14 | 7/32  |
| 5250-127-032-A16 | 1/4   |
| 5250-127-032-A18 | 9/32  |
| 5250-127-032-A20 | 5/16  |
| 5250-127-032-A22 | 11/32 |
| 5250-127-032-A24 | 3/8   |
| 5250-127-032-A26 | 13/32 |
| 5250-127-032-A28 | 7/16  |
| 5250-127-032-A30 | 15/32 |
| 5250-127-032-A32 | 1/2   |
| 5250-127-032-A34 | 17/32 |
| 5250-127-032-A36 | 9/16  |
| 5250-127-032-A38 | 19/32 |
| 5250-127-032-A40 | 5/8   |
| 5250-127-032-A42 | 21/32 |
| 5250-127-032-A44 | 11/16 |
| 5250-127-032-A46 | 23/32 |
| 5250-127-032-A48 | 3/4   |

| ER40 - FOD       |      |                  |      |
|------------------|------|------------------|------|
| MODEL NO.        | SIZE | MODEL NO.        | SIZE |
| 5250-127-040-004 | 4    | 5250-127-040-016 | 16   |
| 5250-127-040-005 | 5    | 5250-127-040-017 | 17   |
| 5250-127-040-006 | 6    | 5250-127-040-018 | 18   |
| 5250-127-040-007 | 7    | 5250-127-040-019 | 19   |
| 5250-127-040-008 | 8    | 5250-127-040-020 | 20   |
| 5250-127-040-009 | 9    | 5250-127-040-021 | 21   |
| 5250-127-040-010 | 10   | 5250-127-040-022 | 22   |
| 5250-127-040-011 | 11   | 5250-127-040-023 | 23   |
| 5250-127-040-012 | 12   | 5250-127-040-024 | 24   |
| 5250-127-040-013 | 13   | 5250-127-040-025 | 25   |
| 5250-127-040-014 | 14   | 5250-127-040-026 | 26   |
| 5250-127-040-015 | 15   |                  |      |

**INCHES**

|                  |       |                  |       |
|------------------|-------|------------------|-------|
| 5250-127-040-A10 | 5/32  | 5250-127-040-A32 | 1/2   |
| 5250-127-040-A12 | 3/16  | 5250-127-040-A34 | 17/32 |
| 5250-127-040-A14 | 7/32  | 5250-127-040-A36 | 9/16  |
| 5250-127-040-A16 | 1/4   | 5250-127-040-A38 | 19/32 |
| 5250-127-040-A18 | 9/32  | 5250-127-040-A40 | 5/8   |
| 5250-127-040-A20 | 5/16  | 5250-127-040-A42 | 21/32 |
| 5250-127-040-A22 | 11/32 | 5250-127-040-A44 | 11/16 |
| 5250-127-040-A24 | 3/8   | 5250-127-040-A46 | 23/32 |
| 5250-127-040-A26 | 13/32 | 5250-127-040-A48 | 3/4   |
| 5250-127-040-A28 | 7/16  | 5250-127-040-A56 | 7/8   |
| 5250-127-040-A30 | 15/32 | 5250-127-040-A64 | 1     |

| ER50 - FOD       |      |                  |      |
|------------------|------|------------------|------|
| MODEL NO.        | SIZE | MODEL NO.        | SIZE |
| 5250-127-050-006 | 6    | 5250-127-050-021 | 21   |
| 5250-127-050-007 | 7    | 5250-127-050-022 | 22   |
| 5250-127-050-008 | 8    | 5250-127-050-023 | 23   |
| 5250-127-050-009 | 9    | 5250-127-050-024 | 24   |
| 5250-127-050-010 | 10   | 5250-127-050-025 | 25   |
| 5250-127-050-011 | 11   | 5250-127-050-026 | 26   |
| 5250-127-050-012 | 12   | 5250-127-050-027 | 27   |
| 5250-127-050-013 | 13   | 5250-127-050-028 | 28   |
| 5250-127-050-014 | 14   | 5250-127-050-029 | 29   |
| 5250-127-050-015 | 15   | 5250-127-050-030 | 30   |
| 5250-127-050-016 | 16   | 5250-127-050-031 | 31   |
| 5250-127-050-017 | 17   | 5250-127-050-032 | 32   |
| 5250-127-050-018 | 18   | 5250-127-050-033 | 33   |
| 5250-127-050-019 | 19   | 5250-127-050-034 | 34   |
| 5250-127-050-020 | 20   |                  |      |

**INCHES**

|                  |       |                  |        |
|------------------|-------|------------------|--------|
| 5250-127-050-A16 | 1/4   | 5250-127-050-A40 | 5/8    |
| 5250-127-050-A18 | 9/32  | 5250-127-050-A42 | 21/32  |
| 5250-127-050-A20 | 5/16  | 5250-127-050-A44 | 11/16  |
| 5250-127-050-A22 | 11/32 | 5250-127-050-A46 | 23/32  |
| 5250-127-050-A24 | 3/8   | 5250-127-050-A48 | 3/4    |
| 5250-127-050-A26 | 13/32 | 5250-127-050-A56 | 7/8    |
| 5250-127-050-A28 | 7/16  | 5250-127-050-A64 | 1      |
| 5250-127-050-A30 | 15/32 | 5250-127-050-A66 | 1-1/16 |
| 5250-127-050-A32 | 1/2   | 5250-127-050-A68 | 1-1/8  |
| 5250-127-050-A34 | 17/32 | 5250-127-050-A70 | 1-3/16 |
| 5250-127-050-A36 | 9/16  | 5250-127-050-A72 | 1-1/4  |
| 5250-127-050-A38 | 19/32 | 5250-127-050-A74 | 1-5/16 |

**Features:**

- ▶ Runout accuracy: 15µm, A class 10µm, UP class 5µm.
- ▶ The design of coolant holes is good for cooling and metal chips removal, extending tool life.
- ▶ Water pressure up to 50kgf/cm<sup>2</sup>.
- ▶ Used for cutting tools without coolant holes.



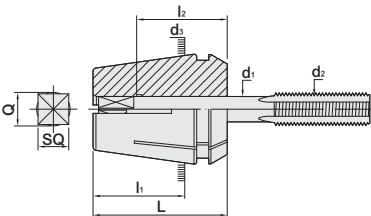
# ER - TC RIGID TAP COLLET

ER 鋼性攻牙筒夾

(DIN ISO 15488)



台灣精品 2007  
TAIWAN EXCELLENCE



TW PAT NO. M148435  
TW PAT NO. M333253  
CH PAT NO. 693702  
CN PAT NO. ZL200820102787.2

| TYPE  | d <sub>3</sub> | L    | l <sub>1</sub> | CAPACITY  | WEIGHT (KGS) |
|-------|----------------|------|----------------|-----------|--------------|
| ER 16 | 16             | 27.5 | 17.5           | M3 ~ M12  | 0.02         |
| ER 20 | 20             | 31.5 | 20.7           | M3 ~ M17  | 0.04         |
| ER 25 | 25             | 34   | 23             | M3 ~ M22  | 0.06         |
| ER 32 | 32             | 40   | 27.34          | M3 ~ M27  | 0.14         |
| ER 40 | 40             | 46   | 31.34          | M3 ~ M27  | 0.24         |
| ER 50 | 50             | 60   | 38.9           | M10 ~ M33 | 0.44         |

## ER - TC16

| MODEL NO.       | d <sub>1</sub> | Q    | d <sub>2</sub> | SQ   | l <sub>2</sub> | STANDARD | MODEL NO.       | d <sub>1</sub> | Q    | d <sub>2</sub> | SQ  | l <sub>2</sub> | STANDARD |
|-----------------|----------------|------|----------------|------|----------------|----------|-----------------|----------------|------|----------------|-----|----------------|----------|
| 5250-116-016-11 | 2.24           | 2    | M3             | 1.8  | 18             | ISO-529  | 5250-116-016-22 | 6              | 5.09 | M5             | 4.9 | 18             | DIN-352  |
| 5250-116-016-12 | 2.5            | 2.2  | M3.5           | 2.1  | 18             | DIN-376  | 5250-116-016-22 | 6              | 5.09 | M5             | 4.9 | 18             | DIN-371  |
| 5250-116-016-12 | 2.5            | 2.2  | M3.5           | 2    | 18             | ISO-529  | 5250-116-016-22 | 6              | 5.09 | M6             | 4.5 | 18             | JIS      |
| 5250-116-016-13 | 2.8            | 2.6  | M4             | 2.1  | 18             | DIN-376  | 5250-116-016-22 | 6              | 5.09 | M6             | 4.9 | 18             | DIN-352  |
| 5250-116-016-14 | 3.15           | 2.9  | M3             | 2.5  | 18             | ISO-529  | 5250-116-016-22 | 6              | 5.09 | M6             | 4.9 | 18             | DIN-371  |
| 5250-116-016-14 | 3.15           | 2.9  | M4             | 2.5  | 18             | ISO-529  | 5250-116-016-22 | 6              | 5.09 | M8             | 4.9 | 18             | DIN-352  |
| 5250-116-016-15 | 3.5            | 3.3  | M3             | 2.7  | 18             | DIN-352  | 5250-116-016-22 | 6              | 5.09 | M8             | 4.9 | 18             | DIN-376  |
| 5250-116-016-15 | 3.5            | 3.3  | M3             | 2.7  | 18             | DIN-371  | 5250-116-016-24 | 6.2            | 5.21 | M7             | 5   | 18             | JIS      |
| 5250-116-016-16 | 3.55           | 3.3  | M3.5           | 2.8  | 18             | ISO-529  | 5250-116-016-24 | 6.2            | 5.21 | M8             | 5   | 18             | JIS      |
| 5250-116-016-16 | 3.55           | 3.3  | M4.5           | 2.8  | 18             | ISO-529  | 5250-116-016-25 | 6.3            | 5.21 | M6             | 5   | 18             | ISO-529  |
| 5250-116-016-17 | 4              | 3.8  | M3             | 3.2  | 18             | JIS      | 5250-116-016-25 | 6.3            | 5.21 | M8             | 5   | 18             | ISO-529  |
| 5250-116-016-17 | 4              | 3.8  | M3.5           | 3    | 18             | DIN-352  | 5250-116-016-26 | 7              | 5.84 | M9             | 5.5 | 18             | JIS      |
| 5250-116-016-17 | 4              | 3.8  | M3.5           | 3    | 18             | DIN-371  | 5250-116-016-26 | 7              | 5.84 | M10            | 5.5 | 18             | JIS      |
| 5250-116-016-17 | 4              | 3.8  | M4             | 3.15 | 18             | ISO-529  | 5250-116-016-26 | 7              | 5.84 | M10            | 5.5 | 18             | DIN-352  |
| 5250-116-016-17 | 4              | 3.8  | M5             | 3.15 | 18             | ISO-529  | 5250-116-016-26 | 7              | 5.84 | M10            | 5.5 | 18             | DIN-376  |
| 5250-116-016-18 | 4.5            | 4.0  | M4             | 3.4  | 18             | DIN-352  | 5250-116-016-27 | 8              | 6.88 | M8             | 6.2 | 22             | DIN-371  |
| 5250-116-016-18 | 4.5            | 4    | M4             | 3.4  | 18             | DIN-371  | 5250-116-016-27 | 8              | 6.88 | M8             | 6.3 | 22             | ISO-529  |
| 5250-116-016-18 | 4.5            | 4    | M6             | 3.4  | 18             | DIN-376  | 5250-116-016-27 | 8              | 6.88 | M10            | 6.3 | 22             | ISO-529  |
| 5250-116-016-18 | 4.5            | 4    | M6             | 3.55 | 18             | ISO-529  | 5250-116-016-27 | 8              | 6.88 | M11            | 6   | 22             | JIS      |
| 5250-116-016-20 | 5              | 4.7  | M4             | 4    | 18             | JIS      | 5250-116-016-28 | 8.5            | 7.14 | M12            | 6.5 | 22             | JIS      |
| 5250-116-016-20 | 5              | 4.7  | M4.5           | 4    | 18             | JIS      | 5250-116-016-29 | 9              | 7.95 | M12            | 7   | 22             | DIN-352  |
| 5250-116-016-20 | 5              | 4.7  | M5             | 4    | 18             | ISO-529  | 5250-116-016-29 | 9              | 7.95 | M12            | 7   | 22             | DIN-376  |
| 5250-116-016-21 | 5.5            | 4.73 | M5             | 4.5  | 18             | JIS      | 5250-116-016-29 | 9              | 7.95 | M12            | 7.1 | 22             | ISO-529  |
| 5250-116-016-21 | 5.5            | 4.73 | M5.5           | 4.5  | 18             | JIS      | 5250-116-016-30 | 10             | 9.16 | M10            | 8   | 22             | DIN-371  |
|                 |                |      |                |      |                |          | 5250-116-016-30 | 10             | 9.16 | M10            | 8   | 22             | ISO-529  |

## INCHES

|                 |       |       |      |       |       |   |                 |       |       |      |       |       |   |
|-----------------|-------|-------|------|-------|-------|---|-----------------|-------|-------|------|-------|-------|---|
| 5250-116-016-02 | 0.168 | 0.151 | 5/32 | 0.131 | 0.709 | - | 5250-116-016-04 | 0.220 | 0.198 | 7/32 | 0.165 | 0.709 | - |
| 5250-116-016-03 | 0.194 | 0.180 | 3/16 | 0.152 | 0.709 | - | 5250-116-016-05 | 0.255 | 0.198 | 1/4  | 0.191 | 0.709 | - |

## ER - TC20

| MODEL NO.       | d <sub>1</sub> | Q    | d <sub>2</sub> | SQ   | l <sub>2</sub> | STANDARD | MODEL NO.       | d <sub>1</sub> | Q     | d <sub>2</sub> | SQ  | l <sub>2</sub> | STANDARD |
|-----------------|----------------|------|----------------|------|----------------|----------|-----------------|----------------|-------|----------------|-----|----------------|----------|
| 5250-116-020-12 | 2.24           | 2    | M3             | 1.8  | 18             | ISO-529  | 5250-116-020-23 | 6              | 5.09  | M8             | 4.9 | 18             | DIN-352  |
| 5250-116-020-13 | 2.5            | 2.2  | M3.5           | 2.1  | 18             | DIN-376  | 5250-116-020-23 | 6              | 5.09  | M8             | 4.9 | 18             | DIN-376  |
| 5250-116-020-13 | 2.5            | 2.2  | M3.5           | 2    | 18             | ISO-529  | 5250-116-020-24 | 6.2            | 5.21  | M7             | 5   | 18             | JIS      |
| 5250-116-020-14 | 2.8            | 2.6  | M4             | 2.1  | 18             | DIN-376  | 5250-116-020-24 | 6.2            | 5.21  | M8             | 5   | 18             | JIS      |
| 5250-116-020-15 | 3.15           | 2.9  | M3             | 2.5  | 18             | ISO-529  | 5250-116-020-25 | 6.3            | 5.21  | M6             | 5   | 18             | ISO-529  |
| 5250-116-020-15 | 3.15           | 2.9  | M4             | 2.5  | 18             | ISO-529  | 5250-116-020-25 | 6.3            | 5.21  | M8             | 5   | 18             | ISO-529  |
| 5250-116-020-16 | 3.5            | 3.3  | M3             | 2.7  | 18             | DIN-352  | 5250-116-020-26 | 7              | 5.84  | M9             | 5.5 | 18             | JIS      |
| 5250-116-020-16 | 3.5            | 3.3  | M3             | 2.7  | 18             | DIN-371  | 5250-116-020-26 | 7              | 5.84  | M10            | 5.5 | 18             | JIS      |
| 5250-116-020-16 | 3.5            | 3.3  | M5             | 2.7  | 18             | DIN-376  | 5250-116-020-26 | 7              | 5.84  | M10            | 5.5 | 18             | DIN-352  |
| 5250-116-020-17 | 3.55           | 3.3  | M3.5           | 2.8  | 18             | ISO-529  | 5250-116-020-26 | 7              | 5.84  | M10            | 5.5 | 18             | DIN-376  |
| 5250-116-020-17 | 3.55           | 3.3  | M4.5           | 2.8  | 18             | ISO-529  | 5250-116-020-27 | 8              | 6.88  | M8             | 6.2 | 22             | DIN-371  |
| 5250-116-020-18 | 4              | 3.8  | M3             | 3.2  | 18             | JIS      | 5250-116-020-27 | 8              | 6.88  | M8             | 6.3 | 22             | ISO-529  |
| 5250-116-020-18 | 4              | 3.8  | M3.5           | 3    | 18             | DIN-352  | 5250-116-020-27 | 8              | 6.88  | M10            | 6.3 | 22             | ISO-529  |
| 5250-116-020-18 | 4              | 3.8  | M3.5           | 3    | 18             | DIN-371  | 5250-116-020-27 | 8              | 6.88  | M11            | 6   | 22             | JIS      |
| 5250-116-020-18 | 4              | 3.8  | M4             | 3.15 | 18             | ISO-529  | 5250-116-020-28 | 8.5            | 7.14  | M12            | 6.5 | 22             | JIS      |
| 5250-116-020-18 | 4              | 3.8  | M5             | 3.15 | 18             | ISO-529  | 5250-116-020-29 | 9              | 7.95  | M12            | 7   | 22             | DIN-352  |
| 5250-116-020-19 | 4.5            | 4.0  | M4             | 3.4  | 18             | DIN-352  | 5250-116-020-29 | 9              | 7.95  | M12            | 7   | 22             | DIN-376  |
| 5250-116-020-19 | 4.5            | 4.0  | M4             | 3.4  | 18             | DIN-371  | 5250-116-020-29 | 9              | 7.95  | M12            | 7.1 | 22             | ISO-529  |
| 5250-116-020-19 | 4.5            | 4.0  | M6             | 3.4  | 18             | DIN-376  | 5250-116-020-30 | 10             | 9.16  | M10            | 8   | 22             | DIN-371  |
| 5250-116-020-19 | 4.5            | 4.0  | M6             | 3.55 | 18             | ISO-529  | 5250-116-020-30 | 10             | 9.16  | M10            | 8   | 22             | ISO-529  |
| 5250-116-020-21 | 5              | 4.7  | M4             | 4    | 18             | JIS      | 5250-116-020-31 | 10.5           | 9.16  | M14            | 8   | 25             | JIS      |
| 5250-116-020-21 | 5              | 4.7  | M4.5           | 4    | 18             | JIS      | 5250-116-020-31 | 10.5           | 9.16  | M15            | 8   | 25             | JIS      |
| 5250-116-020-21 | 5              | 4.7  | M5             | 4    | 18             | ISO-529  | 5250-116-020-32 | 11             | 10.53 | M14            | 9   | 25             | DIN-352  |
| 5250-116-020-22 | 5.5            | 4.73 | M5             | 4.5  | 18             | JIS      | 5250-116-020-32 | 11             | 10.53 | M14            | 9   | 25             | DIN-376  |
| 5250-116-020-22 | 5.5            | 4.73 | M5.5           | 4.5  | 18             | JIS      | 5250-116-020-33 | 11.2           | 10.53 | M14            | 9   | 25             | ISO-529  |
| 5250-116-020-23 | 6              | 5.09 | M5             | 4.9  | 18             | DIN-352  | 5250-116-020-34 | 12             | 10.53 | M16            | 9   | 25             | DIN-352  |
| 5250-116-020-23 | 6              | 5.09 | M5             | 4.9  | 18             | DIN-371  | 5250-116-020-34 | 12             | 10.53 | M16            | 9   | 25             | DIN-376  |
| 5250-116-020-23 | 6              | 5.09 | M6             | 4.5  | 18             | JIS      | 5250-116-020-35 | 12.5           | 11.91 | M16            | 10  | 25             | JIS      |
| 5250-116-020-23 | 6              | 5.09 | M6             | 4.9  | 18             | DIN-352  | 5250-116-020-35 | 12.5           | 11.91 | M16            | 10  | 25             | ISO-529  |
| 5250-116-020-23 | 6              | 5.09 | M6             | 4.9  | 18             | DIN-371  | 5250-116-020-36 | 13             | 11.91 | M17            | 10  | 25             | JIS      |

## INCHES

|                 |       |       |      |       |       |   |                 |       |       |      |       |       |   |
|-----------------|-------|-------|------|-------|-------|---|-----------------|-------|-------|------|-------|-------|---|
| 5250-116-020-02 | 0.168 | 0.151 | 5/32 | 0.131 | 0.709 | - | 5250-116-020-07 | 0.323 | 0.263 | 7/16 | 0.242 | 0.866 | - |
| 5250-116-020-03 | 0.194 | 0.180 | 3/16 | 0.152 | 0.709 | - | 5250-116-020-08 | 0.367 | 0.307 | 1/2  | 0.275 | 0.866 | - |
| 5250-116-020-04 | 0.220 | 0.198 | 7/32 | 0.165 | 0.709 | - | 5250-116-020-09 | 0.381 | 0.321 | 3/8  | 0.286 | 0.866 | - |
| 5250-116-020-05 | 0.255 | 0.198 | 1/4  | 0.191 | 0.709 | - | 5250-116-020-10 | 0.429 | 0.37  | 9/16 | 0.322 | 0.984 | - |
| 5250-116-020-06 | 0.318 | 0.258 | 5/16 | 0.238 | 0.866 | - |                 |       |       |      |       |       |   |



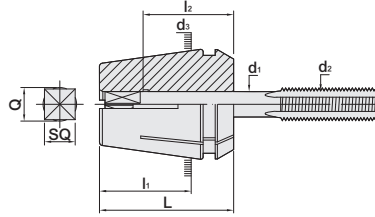
# ER - TC RIGID TAP COLLET



台灣精品 2007  
TAIWAN EXCELLENCE

ER 鋼性攻牙筒夾

(DIN ISO 15488)



TW PAT NO. M148435  
TW PAT NO. M333253  
CH PAT NO. 693702  
CN PAT NO. ZL200820102787.2

| TYPE  | d <sub>3</sub> | L    | l <sub>1</sub> | CAPACITY  | WEIGHT (KGS) |
|-------|----------------|------|----------------|-----------|--------------|
| ER 16 | 16             | 27.5 | 17.5           | M3 ~ M12  | 0.02         |
| ER 20 | 20             | 31.5 | 20.7           | M3 ~ M17  | 0.04         |
| ER 25 | 25             | 34   | 23             | M3 ~ M22  | 0.06         |
| ER 32 | 32             | 40   | 27.34          | M3 ~ M27  | 0.14         |
| ER 40 | 40             | 46   | 31.34          | M3 ~ M27  | 0.24         |
| ER 50 | 50             | 60   | 38.9           | M10 ~ M33 | 0.44         |

## ER - TC25

| MODEL NO.       | d <sub>1</sub> | Q    | d <sub>2</sub> | SQ   | l <sub>2</sub> | STANDARD | MODEL NO.       | d <sub>1</sub> | Q     | d <sub>2</sub> | SQ   | l <sub>2</sub> | STANDARD |
|-----------------|----------------|------|----------------|------|----------------|----------|-----------------|----------------|-------|----------------|------|----------------|----------|
| 5250-116-025-17 | 2.24           | 2    | M3             | 1.8  | 18             | ISO-529  | 5250-116-025-31 | 6.3            | 5.21  | M8             | 5    | 18             | ISO-529  |
| 5250-116-025-18 | 2.5            | 2.2  | M3.5           | 2.1  | 18             | DIN-376  | 5250-116-025-32 | 7              | 5.84  | M9             | 5.5  | 18             | JIS      |
| 5250-116-025-18 | 2.5            | 2.2  | M3.5           | 2    | 18             | ISO-529  | 5250-116-025-32 | 7              | 5.84  | M10            | 5.5  | 18             | JIS      |
| 5250-116-025-19 | 2.8            | 2.6  | M4             | 2.1  | 18             | DIN-376  | 5250-116-025-32 | 7              | 5.84  | M10            | 5.5  | 18             | DIN-352  |
| 5250-116-025-20 | 3.15           | 2.9  | M3             | 2.5  | 18             | ISO-529  | 5250-116-025-32 | 7              | 5.84  | M10            | 5.5  | 18             | DIN-376  |
| 5250-116-025-20 | 3.15           | 2.9  | M4             | 2.5  | 18             | ISO-529  | 5250-116-025-33 | 8              | 6.88  | M8             | 6.2  | 22             | DIN-371  |
| 5250-116-025-21 | 3.5            | 3.3  | M3             | 2.7  | 18             | DIN-352  | 5250-116-025-33 | 8              | 6.88  | M8             | 6.3  | 22             | ISO-529  |
| 5250-116-025-21 | 3.5            | 3.3  | M3             | 2.7  | 18             | DIN-371  | 5250-116-025-33 | 8              | 6.88  | M10            | 6.3  | 22             | ISO-529  |
| 5250-116-025-21 | 3.5            | 3.3  | M5             | 2.7  | 18             | DIN-376  | 5250-116-025-33 | 8              | 6.88  | M11            | 6    | 22             | JIS      |
| 5250-116-025-22 | 3.55           | 3.3  | M3.5           | 2.8  | 18             | ISO-529  | 5250-116-025-34 | 8.5            | 7.14  | M12            | 6.5  | 22             | JIS      |
| 5250-116-025-22 | 3.55           | 3.3  | M4.5           | 2.8  | 18             | ISO-529  | 5250-116-025-35 | 9              | 7.95  | M12            | 7    | 22             | DIN-352  |
| 5250-116-025-23 | 4              | 3.8  | M3             | 3.2  | 18             | JIS      | 5250-116-025-35 | 9              | 7.95  | M12            | 7    | 22             | DIN-376  |
| 5250-116-025-23 | 4              | 3.8  | M3.5           | 3    | 18             | DIN-352  | 5250-116-025-35 | 9              | 7.95  | M12            | 7.1  | 22             | ISO-529  |
| 5250-116-025-23 | 4              | 3.8  | M3.5           | 3    | 18             | DIN-371  | 5250-116-025-36 | 10             | 9.16  | M10            | 8    | 22             | DIN-371  |
| 5250-116-025-23 | 4              | 3.8  | M4             | 3.15 | 18             | ISO-529  | 5250-116-025-36 | 10             | 9.16  | M10            | 8    | 22             | ISO-529  |
| 5250-116-025-23 | 4              | 3.8  | M5             | 3.15 | 18             | ISO-529  | 5250-116-025-37 | 10.5           | 9.16  | M14            | 8    | 25             | JIS      |
| 5250-116-025-24 | 4.5            | 4.0  | M4             | 3.4  | 18             | DIN-352  | 5250-116-025-37 | 10.5           | 9.16  | M15            | 8    | 25             | JIS      |
| 5250-116-025-24 | 4.5            | 4.0  | M4             | 3.4  | 18             | DIN-371  | 5250-116-025-38 | 11             | 10.53 | M14            | 9    | 25             | DIN-352  |
| 5250-116-025-24 | 4.5            | 4.0  | M6             | 3.4  | 18             | DIN-376  | 5250-116-025-38 | 11             | 10.53 | M14            | 9    | 25             | DIN-376  |
| 5250-116-025-24 | 4.5            | 4.0  | M6             | 3.55 | 18             | ISO-529  | 5250-116-025-39 | 11.2           | 10.53 | M14            | 9    | 25             | ISO-529  |
| 5250-116-025-26 | 5              | 4.7  | M4             | 4    | 18             | JIS      | 5250-116-025-40 | 12             | 10.53 | M16            | 9    | 25             | DIN-352  |
| 5250-116-025-26 | 5              | 4.7  | M4.5           | 4    | 18             | JIS      | 5250-116-025-40 | 12             | 10.53 | M16            | 9    | 25             | DIN-376  |
| 5250-116-025-26 | 5              | 4.7  | M5             | 4    | 18             | ISO-529  | 5250-116-025-41 | 12.5           | 11.91 | M16            | 10   | 25             | JIS      |
| 5250-116-025-27 | 5.5            | 4.73 | M5             | 4.5  | 18             | JIS      | 5250-116-025-41 | 12.5           | 11.91 | M16            | 10   | 25             | ISO-529  |
| 5250-116-025-27 | 5.5            | 4.73 | M5.5           | 4.5  | 18             | JIS      | 5250-116-025-42 | 13             | 11.91 | M17            | 10   | 25             | JIS      |
| 5250-116-025-28 | 6              | 5.09 | M5             | 4.9  | 18             | DIN-352  | 5250-116-025-43 | 14             | 12.97 | M18            | 11   | 25             | JIS      |
| 5250-116-025-28 | 6              | 5.09 | M5             | 4.9  | 18             | DIN-371  | 5250-116-025-43 | 14             | 12.97 | M18            | 11   | 25             | DIN-352  |
| 5250-116-025-28 | 6              | 5.09 | M6             | 4.5  | 18             | JIS      | 5250-116-025-43 | 14             | 12.97 | M18            | 11   | 25             | DIN-376  |
| 5250-116-025-28 | 6              | 5.09 | M6             | 4.9  | 18             | DIN-352  | 5250-116-025-43 | 14             | 12.97 | M18            | 11.2 | 25             | ISO-529  |
| 5250-116-025-28 | 6              | 5.09 | M6             | 4.9  | 18             | DIN-371  | 5250-116-025-43 | 14             | 12.97 | M20            | 11.2 | 25             | ISO-529  |
| 5250-116-025-28 | 6              | 5.09 | M8             | 4.9  | 18             | DIN-352  | 5250-116-025-44 | 15             | 14.06 | M20            | 12   | 25             | JIS      |
| 5250-116-025-28 | 6              | 5.09 | M8             | 4.9  | 18             | DIN-376  | 5250-116-025-45 | 16             | 14.8  | M20            | 12   | 25             | DIN-352  |
| 5250-116-025-30 | 6.2            | 5.21 | M7             | 5    | 18             | JIS      | 5250-116-025-45 | 16             | 14.8  | M20            | 12   | 25             | DIN-376  |
| 5250-116-025-30 | 6.2            | 5.21 | M8             | 5    | 18             | JIS      | 5250-116-025-45 | 16             | 14.8  | M22            | 12.5 | 25             | ISO-529  |
| 5250-116-025-31 | 6.3            | 5.21 | M6             | 5    | 18             | ISO-529  |                 |                |       |                |      |                |          |

## INCHES

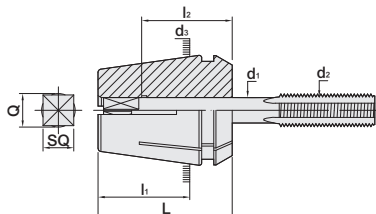
|                 |       |       |      |       |       |   |                 |       |       |        |       |       |   |
|-----------------|-------|-------|------|-------|-------|---|-----------------|-------|-------|--------|-------|-------|---|
| 5250-116-025-02 | 0.168 | 0.151 | 5/32 | 0.131 | 0.709 | - | 5250-116-025-10 | 0.367 | 0.307 | 1/2    | 0.275 | 0.866 | - |
| 5250-116-025-03 | 0.194 | 0.180 | 3/16 | 0.152 | 0.709 | - | 5250-116-025-11 | 0.381 | 0.321 | 3/8    | 0.286 | 0.866 | - |
| 5250-116-025-04 | 0.220 | 0.198 | 7/32 | 0.165 | 0.709 | - | 5250-116-025-12 | 0.429 | 0.370 | 9/16   | 0.322 | 0.984 | - |
| 5250-116-025-05 | 0.255 | 0.198 | 1/4  | 0.191 | 0.709 | - | 5250-116-025-13 | 0.437 | 0.378 | 1/8 PT | 0.328 | 0.984 | - |
| 5250-116-025-07 | 0.318 | 0.258 | 5/16 | 0.238 | 0.866 | - | 5250-116-025-14 | 0.480 | 0.422 | 5/8    | 0.360 | 0.984 | - |
| 5250-116-025-08 | 0.323 | 0.263 | 7/16 | 0.242 | 0.866 | - |                 |       |       |        |       |       |   |



# ER - TC RIGID TAP COLLET



台灣精品2007  
TAIWAN EXCELLENCE



ER 鋼性攻牙筒夾

TW PAT NO. M148435  
TW PAT NO. M333253  
CH PAT NO. 693702  
CN PAT NO. ZL200820102787.2

| TYPE  | d <sub>3</sub> | L    | l <sub>1</sub> | CAPACITY  | WEIGHT (KGS) |
|-------|----------------|------|----------------|-----------|--------------|
| ER 16 | 16             | 27.5 | 17.5           | M3 ~ M12  | 0.02         |
| ER 20 | 20             | 31.5 | 20.7           | M3 ~ M17  | 0.04         |
| ER 25 | 25             | 34   | 23             | M3 ~ M22  | 0.06         |
| ER 32 | 32             | 40   | 27.34          | M3 ~ M27  | 0.14         |
| ER 40 | 40             | 46   | 31.34          | M3 ~ M27  | 0.24         |
| ER 50 | 50             | 60   | 38.9           | M10 ~ M33 | 0.44         |

**ER - TC32**  
**METRIC**

| MODEL NO.       | d <sub>1</sub> | Q    | d <sub>2</sub> | SQ   | l <sub>2</sub> | STANDARD | MODEL NO.       | d <sub>1</sub> | Q     | d <sub>2</sub> | SQ   | l <sub>2</sub> | STANDARD |
|-----------------|----------------|------|----------------|------|----------------|----------|-----------------|----------------|-------|----------------|------|----------------|----------|
| 5250-116-032-23 | 2.24           | 2    | M3             | 1.8  | 18             | ISO-529  | 5250-116-032-37 | 7              | 5.84  | M10            | 5.5  | 18             | DIN-376  |
| 5250-116-032-24 | 2.5            | 2.2  | M3.5           | 2.1  | 18             | DIN-376  | 5250-116-032-38 | 8              | 6.88  | M8             | 6.2  | 22             | DIN-371  |
| 5250-116-032-24 | 2.5            | 2.2  | M3.5           | 2    | 18             | ISO-529  | 5250-116-032-38 | 8              | 6.88  | M8             | 6.3  | 22             | ISO-529  |
| 5250-116-032-25 | 2.8            | 2.6  | M4             | 2.1  | 18             | DIN-376  | 5250-116-032-38 | 8              | 6.88  | M10            | 6.3  | 22             | ISO-529  |
| 5250-116-032-26 | 3.15           | 2.9  | M3             | 2.5  | 18             | ISO-529  | 5250-116-032-38 | 8              | 6.88  | M11            | 6    | 22             | JIS      |
| 5250-116-032-26 | 3.15           | 2.9  | M4             | 2.5  | 18             | ISO-529  | 5250-116-032-39 | 8.5            | 7.14  | M12            | 6.5  | 22             | JIS      |
| 5250-116-032-27 | 3.5            | 3.3  | M3             | 2.7  | 18             | DIN-352  | 5250-116-032-40 | 9              | 7.95  | M12            | 7    | 22             | DIN-352  |
| 5250-116-032-27 | 3.5            | 3.3  | M3             | 2.7  | 18             | DIN-371  | 5250-116-032-40 | 9              | 7.95  | M12            | 7    | 22             | DIN-376  |
| 5250-116-032-27 | 3.5            | 3.3  | M5             | 2.7  | 18             | DIN-376  | 5250-116-032-40 | 9              | 7.95  | M12            | 7.1  | 22             | ISO-529  |
| 5250-116-032-28 | 3.55           | 3.3  | M3.5           | 2.8  | 18             | ISO-529  | 5250-116-032-41 | 10             | 9.16  | M10            | 8    | 22             | DIN-371  |
| 5250-116-032-28 | 3.55           | 3.3  | M4.5           | 2.8  | 18             | ISO-529  | 5250-116-032-41 | 10             | 9.16  | M10            | 8    | 22             | ISO-529  |
| 5250-116-032-29 | 4              | 3.8  | M3             | 3.2  | 18             | JIS      | 5250-116-032-42 | 10.5           | 9.16  | M14            | 8    | 25             | JIS      |
| 5250-116-032-29 | 4              | 3.8  | M3.5           | 3    | 18             | DIN-352  | 5250-116-032-42 | 10.5           | 9.16  | M15            | 8    | 25             | JIS      |
| 5250-116-032-29 | 4              | 3.8  | M3.5           | 3    | 18             | DIN-371  | 5250-116-032-43 | 11             | 10.53 | M14            | 9    | 25             | DIN-352  |
| 5250-116-032-29 | 4              | 3.8  | M4             | 3.15 | 18             | ISO-529  | 5250-116-032-43 | 11             | 10.53 | M14            | 9    | 25             | DIN-376  |
| 5250-116-032-29 | 4              | 3.8  | M5             | 3.15 | 18             | ISO-529  | 5250-116-032-44 | 11.2           | 10.53 | M14            | 9    | 25             | ISO-529  |
| 5250-116-032-30 | 4.5            | 4.0  | M4             | 3.4  | 18             | DIN-352  | 5250-116-032-45 | 12             | 10.53 | M16            | 9    | 25             | DIN-352  |
| 5250-116-032-30 | 4.5            | 4.0  | M4             | 3.4  | 18             | DIN-371  | 5250-116-032-45 | 12             | 10.53 | M16            | 9    | 25             | DIN-376  |
| 5250-116-032-30 | 4.5            | 4.0  | M6             | 3.4  | 18             | DIN-376  | 5250-116-032-46 | 12.5           | 11.91 | M16            | 10   | 25             | JIS      |
| 5250-116-032-30 | 4.5            | 4.0  | M6             | 3.55 | 18             | ISO-529  | 5250-116-032-46 | 12.5           | 11.91 | M16            | 10   | 25             | ISO-529  |
| 5250-116-032-32 | 5              | 4.7  | M4             | 4    | 18             | JIS      | 5250-116-032-47 | 13             | 11.91 | M17            | 10   | 25             | JIS      |
| 5250-116-032-32 | 5              | 4.7  | M4.5           | 4    | 18             | JIS      | 5250-116-032-48 | 14             | 12.97 | M18            | 11   | 25             | JIS      |
| 5250-116-032-32 | 5              | 4.7  | M5             | 4    | 18             | ISO-529  | 5250-116-032-48 | 14             | 12.97 | M18            | 11   | 25             | DIN-352  |
| 5250-116-032-33 | 5.5            | 4.73 | M5             | 4.5  | 18             | JIS      | 5250-116-032-48 | 14             | 12.97 | M18            | 11   | 25             | DIN-376  |
| 5250-116-032-33 | 5.5            | 4.73 | M5.5           | 4.5  | 18             | JIS      | 5250-116-032-48 | 14             | 12.97 | M18            | 11.2 | 25             | ISO-529  |
| 5250-116-032-34 | 6              | 5.09 | M5             | 4.9  | 18             | DIN-352  | 5250-116-032-48 | 14             | 12.97 | M20            | 11.2 | 25             | ISO-529  |
| 5250-116-032-34 | 6              | 5.09 | M5             | 4.9  | 18             | DIN-371  | 5250-116-032-49 | 15             | 14.06 | M20            | 12   | 25             | JIS      |
| 5250-116-032-34 | 6              | 5.09 | M6             | 4.5  | 18             | JIS      | 5250-116-032-50 | 16             | 14.8  | M20            | 12   | 25             | DIN-352  |
| 5250-116-032-34 | 6              | 5.09 | M6             | 4.9  | 18             | DIN-352  | 5250-116-032-50 | 16             | 14.8  | M20            | 12   | 25             | DIN-376  |
| 5250-116-032-34 | 6              | 5.09 | M6             | 4.9  | 18             | DIN-371  | 5250-116-032-50 | 16             | 14.8  | M22            | 12.5 | 25             | ISO-529  |
| 5250-116-032-34 | 6              | 5.09 | M8             | 4.9  | 18             | DIN-352  | 5250-116-032-51 | 17             | 15.44 | M22            | 13   | 28             | JIS      |
| 5250-116-032-34 | 6              | 5.09 | M8             | 4.9  | 18             | DIN-376  | 5250-116-032-52 | 18             | 17.52 | M22            | 14.5 | 28             | DIN-352  |
| 5250-116-032-35 | 6.2            | 5.21 | M7             | 5    | 18             | JIS      | 5250-116-032-52 | 18             | 17.52 | M22            | 14.5 | 28             | DIN-376  |
| 5250-116-032-35 | 6.2            | 5.21 | M8             | 5    | 18             | JIS      | 5250-116-032-52 | 18             | 17.52 | M24            | 14.5 | 28             | DIN-352  |
| 5250-116-032-36 | 6.3            | 5.21 | M6             | 5    | 18             | ISO-529  | 5250-116-032-52 | 18             | 17.52 | M24            | 14.5 | 28             | DIN-376  |
| 5250-116-032-36 | 6.3            | 5.21 | M8             | 5    | 18             | ISO-529  | 5250-116-032-52 | 18             | 17.52 | M24            | 14   | 28             | ISO-529  |
| 5250-116-032-37 | 7              | 5.84 | M9             | 5.5  | 18             | JIS      | 5250-116-032-53 | 19             | 18.22 | M24            | 15   | 28             | JIS      |
| 5250-116-032-37 | 7              | 5.84 | M10            | 5.5  | 18             | JIS      | 5250-116-032-53 | 19             | 18.22 | M25            | 15   | 28             | JIS      |
| 5250-116-032-37 | 7              | 5.84 | M10            | 5.5  | 18             | DIN-352  | 5250-116-032-54 | 20             | 19.61 | M26            | 15   | 28             | JIS      |
| 5250-116-032-37 | 7              | 5.84 | M10            | 5.5  | 18             | DIN-352  | 5250-116-032-54 | 20             | 19.61 | M27            | 15   | 28             | JIS      |

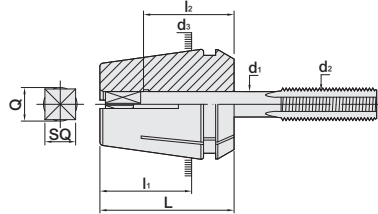




# ER - TC RIGID TAP COLLET

ER 鋼性攻牙筒夾

(DIN ISO 15488)



TW PAT NO. M148435  
 TW PAT NO. M333253  
 CH PAT NO. 693702  
 CN PAT NO. ZL200820102787.2

| TYPE  | d <sub>3</sub> | L    | l <sub>1</sub> | CAPACITY  | WEIGHT (KGS) |
|-------|----------------|------|----------------|-----------|--------------|
| ER 16 | 16             | 27.5 | 17.5           | M3 ~ M12  | 0.02         |
| ER 20 | 20             | 31.5 | 20.7           | M3 ~ M17  | 0.04         |
| ER 25 | 25             | 34   | 23             | M3 ~ M22  | 0.06         |
| ER 32 | 32             | 40   | 27.34          | M3 ~ M27  | 0.14         |
| ER 40 | 40             | 46   | 31.34          | M3 ~ M27  | 0.24         |
| ER 50 | 50             | 60   | 38.9           | M10 ~ M33 | 0.44         |

**ER - TC32**  
**INCHES**

| MODEL NO.       | d <sub>1</sub> | Q     | d <sub>2</sub> | SQ    | l <sub>2</sub> | MODEL NO.       | d <sub>1</sub> | Q      | d <sub>2</sub> | SQ     | l <sub>2</sub> |
|-----------------|----------------|-------|----------------|-------|----------------|-----------------|----------------|--------|----------------|--------|----------------|
| 5250-116-032-03 | 0.168          | 0.151 | 5/32           | 0.131 | 0.709          | 5250-116-032-13 | 0.429"         | 0.370" | 9/16           | 0.322" | 0.984          |
| 5250-116-032-04 | 0.194          | 0.180 | 3/16           | 0.152 | 0.709          | 5250-116-032-14 | 0.437"         | 0.378" | 1/8 PT         | 0.328" | 1.102          |
| 5250-116-032-05 | 0.220          | 0.198 | 7/32           | 0.165 | 0.709          | 5250-116-032-15 | 0.480"         | 0.422" | 5/8            | 0.360" | 1.102          |
| 5250-116-032-06 | 0.255          | 0.198 | 1/4            | 0.191 | 0.709          | 5250-116-032-16 | 0.542"         | 0.486" | 11/16          | 0.406" | 1.102          |
| 5250-116-032-09 | 0.318          | 0.258 | 5/16           | 0.238 | 0.866          | 5250-116-032-17 | 0.562"         | 0.483" | 1/4 PT         | 0.421" | 1.102          |
| 5250-116-032-10 | 0.323          | 0.263 | 7/16           | 0.242 | 0.866          | 5250-116-032-18 | 0.590"         | 0.512" | 3/4            | 0.442" | 1.102          |
| 5250-116-032-11 | 0.367          | 0.307 | 1/2            | 0.275 | 0.866          | 5250-116-032-20 | 0.652"         | 0.576" | 13/16          | 0.489" | 1.102          |
| 5250-116-032-12 | 0.381          | 0.321 | 3/8            | 0.286 | 0.866          |                 |                |        |                |        |                |

**Features:**

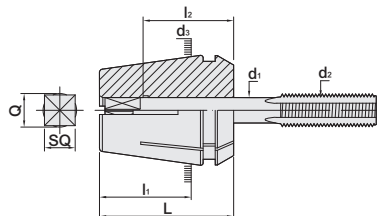
- ▶ To clamp a tap by the slots size differential.
- ▶ This product is workable as long as d<sub>1</sub> size(shank dia. of tap) matches collet ID(patented design).
- ▶ When making an order, please inform collet type and the size of d<sub>1</sub>(shank dia. of tap).



# ER - TC RIGID TAP COLLET

ER 鋼性攻牙筒夾

(DIN ISO 15488)



TW PAT NO. M148435  
 TW PAT NO. M333253  
 CH PAT NO. 693702  
 CN PAT NO. ZL200820102787.2

| TYPE  | d <sub>3</sub> | L    | l <sub>1</sub> | CAPACITY  | WEIGHT (KGS) |
|-------|----------------|------|----------------|-----------|--------------|
| ER 16 | 16             | 27.5 | 17.5           | M3 ~ M12  | 0.03         |
| ER 20 | 20             | 31.5 | 20.7           | M3 ~ M17  | 0.04         |
| ER 25 | 25             | 34   | 23             | M3 ~ M22  | 0.06         |
| ER 32 | 32             | 40   | 27.34          | M3 ~ M27  | 0.10         |
| ER 40 | 40             | 46   | 31.34          | M3 ~ M27  | 0.25         |
| ER 50 | 50             | 60   | 38.9           | M10 ~ M33 | 0.45         |

## ER - TC40

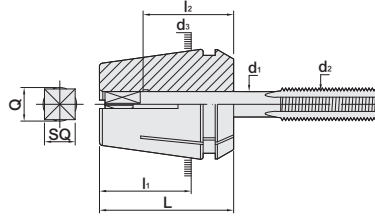
| MODEL NO.       | d <sub>1</sub> | Q    | d <sub>2</sub> | SQ   | l <sub>2</sub> | STANDARD | MODEL NO.       | d <sub>1</sub> | Q     | d <sub>2</sub> | SQ   | l <sub>2</sub> | STANDARD |
|-----------------|----------------|------|----------------|------|----------------|----------|-----------------|----------------|-------|----------------|------|----------------|----------|
| 5250-116-040-34 | 2.24           | 2    | M3             | 1.8  | 18             | ISO-529  | 5250-116-040-47 | 7              | 5.84  | M10            | 5.5  | 18             | DIN-376  |
| 5250-116-040-35 | 2.5            | 2.2  | M3.5           | 2.1  | 18             | DIN-376  | 5250-116-040-48 | 8              | 6.88  | M8             | 6.2  | 22             | DIN-371  |
| 5250-116-040-35 | 2.5            | 2.2  | M3.5           | 2    | 18             | ISO-529  | 5250-116-040-48 | 8              | 6.88  | M8             | 6.3  | 22             | ISO-529  |
| 5250-116-040-36 | 2.8            | 2.6  | M4             | 2.1  | 18             | DIN-376  | 5250-116-040-48 | 8              | 6.88  | M10            | 6.3  | 22             | ISO-529  |
| 5250-116-040-37 | 3.15           | 2.9  | M3             | 2.5  | 18             | ISO-529  | 5250-116-040-48 | 8              | 6.88  | M11            | 6    | 22             | JIS      |
| 5250-116-040-37 | 3.15           | 2.9  | M4             | 2.5  | 18             | ISO-529  | 5250-116-040-49 | 8.5            | 7.14  | M12            | 6.5  | 22             | JIS      |
| 5250-116-040-38 | 3.5            | 3.3  | M3             | 2.7  | 18             | DIN-352  | 5250-116-040-50 | 9              | 7.95  | M12            | 7    | 22             | DIN-352  |
| 5250-116-040-38 | 3.5            | 3.3  | M3             | 2.7  | 18             | DIN-371  | 5250-116-040-50 | 9              | 7.95  | M12            | 7    | 22             | DIN-376  |
| 5250-116-040-38 | 3.5            | 3.3  | M5             | 2.7  | 18             | DIN-376  | 5250-116-040-50 | 9              | 7.95  | M12            | 7.1  | 22             | ISO-529  |
| 5250-116-040-39 | 3.55           | 3.3  | M3.5           | 2.8  | 18             | ISO-529  | 5250-116-040-51 | 10             | 9.16  | M10            | 8    | 22             | DIN-371  |
| 5250-116-040-39 | 3.55           | 3.3  | M4.5           | 2.8  | 18             | ISO-529  | 5250-116-040-51 | 10             | 9.16  | M10            | 8    | 22             | ISO-529  |
| 5250-116-040-40 | 4              | 3.8  | M3             | 3.2  | 18             | JIS      | 5250-116-040-52 | 10.5           | 9.16  | M14            | 8    | 25             | JIS      |
| 5250-116-040-40 | 4              | 3.8  | M3.5           | 3    | 18             | DIN-352  | 5250-116-040-52 | 10.5           | 9.16  | M15            | 8    | 25             | JIS      |
| 5250-116-040-40 | 4              | 3.8  | M3.5           | 3    | 18             | DIN-371  | 5250-116-040-53 | 11             | 10.53 | M14            | 9    | 25             | DIN-352  |
| 5250-116-040-40 | 4              | 3.8  | M4             | 3.15 | 18             | ISO-529  | 5250-116-040-53 | 11             | 10.53 | M14            | 9    | 25             | DIN-376  |
| 5250-116-040-40 | 4              | 3.8  | M5             | 3.15 | 18             | ISO-529  | 5250-116-040-54 | 11.2           | 10.53 | M14            | 9    | 25             | ISO-529  |
| 5250-116-040-41 | 4.5            | 4    | M4             | 3.4  | 18             | DIN-352  | 5250-116-040-55 | 12             | 10.53 | M16            | 9    | 25             | DIN-352  |
| 5250-116-040-41 | 4.5            | 4    | M4             | 3.4  | 18             | DIN-371  | 5250-116-040-55 | 12             | 10.53 | M16            | 9    | 25             | DIN-376  |
| 5250-116-040-41 | 4.5            | 4    | M6             | 3.4  | 18             | DIN-376  | 5250-116-040-56 | 12.5           | 11.91 | M16            | 10   | 25             | JIS      |
| 5250-116-040-41 | 4.5            | 4    | M6             | 3.55 | 18             | ISO-529  | 5250-116-040-56 | 12.5           | 11.91 | M16            | 10   | 25             | ISO-529  |
| 5250-116-040-42 | 5              | 4.7  | M4             | 4    | 18             | JIS      | 5250-116-040-57 | 13             | 11.91 | M17            | 10   | 25             | JIS      |
| 5250-116-040-42 | 5              | 4.7  | M4.5           | 4    | 18             | JIS      | 5250-116-040-58 | 14             | 12.97 | M18            | 11   | 25             | JIS      |
| 5250-116-040-42 | 5              | 4.7  | M5             | 4    | 18             | ISO-529  | 5250-116-040-58 | 14             | 12.97 | M18            | 11   | 25             | DIN-352  |
| 5250-116-040-43 | 5.5            | 4.73 | M5             | 4.5  | 18             | JIS      | 5250-116-040-58 | 14             | 12.97 | M18            | 11   | 25             | DIN-376  |
| 5250-116-040-43 | 5.5            | 4.73 | M5.5           | 4.5  | 18             | JIS      | 5250-116-040-58 | 14             | 12.97 | M18            | 11.2 | 25             | ISO-529  |
| 5250-116-040-44 | 6              | 5.09 | M5             | 4.9  | 18             | DIN-352  | 5250-116-040-58 | 14             | 12.97 | M20            | 11.2 | 25             | ISO-529  |
| 5250-116-040-44 | 6              | 5.09 | M5             | 4.9  | 18             | DIN-371  | 5250-116-040-59 | 15             | 14.06 | M20            | 12   | 25             | JIS      |
| 5250-116-040-44 | 6              | 5.09 | M6             | 4.5  | 18             | JIS      | 5250-116-040-60 | 16             | 14.8  | M20            | 12   | 25             | DIN-352  |
| 5250-116-040-44 | 6              | 5.09 | M6             | 4.9  | 18             | DIN-352  | 5250-116-040-60 | 16             | 14.8  | M20            | 12   | 25             | DIN-376  |
| 5250-116-040-44 | 6              | 5.09 | M6             | 4.9  | 18             | DIN-371  | 5250-116-040-60 | 16             | 14.8  | M22            | 12.5 | 25             | ISO-529  |
| 5250-116-040-44 | 6              | 5.09 | M8             | 4.9  | 18             | DIN-352  | 5250-116-040-61 | 17             | 15.44 | M22            | 13   | 28             | JIS      |
| 5250-116-040-44 | 6              | 5.09 | M8             | 4.9  | 18             | DIN-376  | 5250-116-040-62 | 18             | 17.52 | M22            | 14.5 | 28             | DIN-352  |
| 5250-116-040-45 | 6.2            | 5.21 | M7             | 5    | 18             | JIS      | 5250-116-040-62 | 18             | 17.52 | M22            | 14.5 | 28             | DIN-376  |
| 5250-116-040-45 | 6.2            | 5.21 | M8             | 5    | 18             | JIS      | 5250-116-040-62 | 18             | 17.52 | M24            | 14.5 | 28             | DIN-352  |
| 5250-116-040-46 | 6.3            | 5.21 | M6             | 5    | 18             | ISO-529  | 5250-116-040-62 | 18             | 17.52 | M24            | 14.5 | 28             | DIN-376  |
| 5250-116-040-46 | 6.3            | 5.21 | M8             | 5    | 18             | ISO-529  | 5250-116-040-62 | 18             | 17.52 | M24            | 14   | 28             | ISO-529  |
| 5250-116-040-47 | 7              | 5.84 | M9             | 5.5  | 18             | JIS      | 5250-116-040-63 | 19             | 18.22 | M24            | 15   | 28             | JIS      |
| 5250-116-040-47 | 7              | 5.84 | M10            | 5.5  | 18             | JIS      | 5250-116-040-63 | 19             | 18.22 | M25            | 15   | 28             | JIS      |
| 5250-116-040-47 | 7              | 5.84 | M10            | 5.5  | 18             | DIN-352  | 5250-116-040-64 | 20             | 19.61 | M26            | 15   | 28             | JIS      |
| 5250-116-040-47 | 7              | 5.84 | M10            | 5.5  | 18             | DIN-352  | 5250-116-040-64 | 20             | 19.61 | M27            | 15   | 28             | JIS      |



# ER - TC RIGID TAP COLLET

ER 鋼性攻牙筒夾

(DIN ISO 15488)



| TYPE  | d <sub>3</sub> | L    | l <sub>1</sub> | CAPACITY  | WEIGHT (KGS) |
|-------|----------------|------|----------------|-----------|--------------|
| ER 16 | 16             | 27.5 | 17.5           | M3 ~ M12  | 0.03         |
| ER 20 | 20             | 31.5 | 20.7           | M3 ~ M17  | 0.04         |
| ER 25 | 25             | 34   | 23             | M3 ~ M22  | 0.06         |
| ER 32 | 32             | 40   | 27.34          | M3 ~ M27  | 0.10         |
| ER 40 | 40             | 46   | 31.34          | M3 ~ M27  | 0.25         |
| ER 50 | 50             | 60   | 38.9           | M10 ~ M33 | 0.45         |

TW PAT NO. M148435  
 TW PAT NO. M333253  
 CH PAT NO. 693702  
 CN PAT NO. ZL200820102787.2

## ER - TC40 INCHES

| MODEL NO.       | d <sub>1</sub> | Q      | d <sub>2</sub> | SQ     | l <sub>2</sub> | MODEL NO.       | d <sub>1</sub> | Q      | d <sub>2</sub> | SQ     | l <sub>2</sub> |
|-----------------|----------------|--------|----------------|--------|----------------|-----------------|----------------|--------|----------------|--------|----------------|
| 5250-116-040-06 | 0.255"         | 0.198" | 1/4            | 0.191" | 0.709          | 5250-116-040-16 | 0.562"         | 0.483" | 1/4 PT         | 0.421" | 0.984          |
| 5250-116-040-07 | 0.318"         | 0.258" | 5/16           | 0.238" | 0.866          | 5250-116-040-17 | 0.590"         | 0.512" | 3/4            | 0.442" | 0.984          |
| 5250-116-040-08 | 0.323"         | 0.263" | 7/16           | 0.242" | 0.866          | 5250-116-040-20 | 0.652"         | 0.576" | 13/16          | 0.489" | 0.984          |
| 5250-116-040-09 | 0.367"         | 0.307" | 1/2            | 0.275" | 0.866          | 5250-116-040-21 | 0.687"         | 0.612" | 1/2 PT         | 0.515" | 0.984          |
| 5250-116-040-10 | 0.381"         | 0.321" | 3/8            | 0.286" | 0.866          | 5250-116-040-22 | 0.697"         | 0.623" | 7/8            | 0.523" | 0.984          |
| 5250-116-040-11 | 0.429"         | 0.370" | 9/16           | 0.322" | 0.984          | 5250-116-040-23 | 0.700"         | 0.634" | 3/8 PT         | 0.531" | 0.984          |
| 5250-116-040-12 | 0.437"         | 0.378" | 1/8 PT         | 0.328" | 0.984          | 5250-116-040-25 | 0.760"         | 0.689" | 15/16          | 0.570" | 1.102          |
| 5250-116-040-14 | 0.480"         | 0.422" | 5/8            | 0.360" | 0.984          | 5250-116-040-26 | 0.800"         | 0.730" | 1              | 0.600" | 1.102          |
| 5250-116-040-15 | 0.542"         | 0.486" | 11/16          | 0.406" | 0.984          |                 |                |        |                |        |                |

## ER - TC50

| MODEL NO.       | d <sub>1</sub> | Q     | d <sub>2</sub> | SQ  | l <sub>2</sub> | STANDARD | MODEL NO.       | d <sub>1</sub> | Q     | d <sub>2</sub> | SQ   | l <sub>2</sub> | STANDARD |
|-----------------|----------------|-------|----------------|-----|----------------|----------|-----------------|----------------|-------|----------------|------|----------------|----------|
| 5250-116-050-01 | 7              | 5.84  | M10            | 5.5 | 18             | JIS      | 5250-116-050-12 | 14             | 12.97 | M18            | 11   | 25             | DIN-352  |
| 5250-116-050-01 | 7              | 5.84  | M10            | 5.5 | 18             | DIN-352  | 5250-116-050-12 | 14             | 12.97 | M18            | 11   | 25             | DIN-376  |
| 5250-116-050-01 | 7              | 5.84  | M10            | 5.5 | 18             | DIN-376  | 5250-116-050-12 | 14             | 12.97 | M18            | 11.2 | 25             | ISO-529  |
| 5250-116-050-02 | 8              | 6.88  | M8             | 6.2 | 22             | DIN-371  | 5250-116-050-12 | 14             | 12.97 | M20            | 11.2 | 25             | ISO-529  |
| 5250-116-050-02 | 8              | 6.88  | M8             | 6.3 | 22             | ISO-529  | 5250-116-050-13 | 15             | 14.06 | M20            | 12   | 25             | JIS      |
| 5250-116-050-02 | 8              | 6.88  | M10            | 6.3 | 22             | ISO-529  | 5250-116-050-14 | 16             | 14.8  | M20            | 12   | 25             | DIN-352  |
| 5250-116-050-02 | 8              | 6.88  | M11            | 6   | 22             | JIS      | 5250-116-050-14 | 16             | 14.8  | M20            | 12   | 25             | DIN-376  |
| 5250-116-050-03 | 8.5            | 7.14  | M12            | 6.5 | 22             | JIS      | 5250-116-050-14 | 16             | 14.8  | M22            | 12.5 | 25             | ISO-529  |
| 5250-116-050-04 | 9              | 7.95  | M12            | 7   | 22             | DIN-352  | 5250-116-050-15 | 17             | 15.44 | M22            | 13   | 28             | JIS      |
| 5250-116-050-04 | 9              | 7.95  | M12            | 7   | 22             | DIN-376  | 5250-116-050-16 | 18             | 17.52 | M22            | 14.5 | 28             | DIN-352  |
| 5250-116-050-04 | 9              | 7.95  | M12            | 7.1 | 22             | ISO-529  | 5250-116-050-16 | 18             | 17.52 | M22            | 14.5 | 28             | DIN-376  |
| 5250-116-050-05 | 10             | 9.16  | M10            | 8   | 22             | DIN-371  | 5250-116-050-16 | 18             | 17.52 | M24            | 14.5 | 28             | DIN-352  |
| 5250-116-050-05 | 10             | 9.16  | M10            | 8   | 22             | ISO-529  | 5250-116-050-16 | 18             | 17.52 | M24            | 14.5 | 28             | DIN-376  |
| 5250-116-050-06 | 10.5           | 9.16  | M14            | 8   | 25             | JIS      | 5250-116-050-16 | 18             | 17.52 | M24            | 14   | 28             | ISO-529  |
| 5250-116-050-06 | 10.5           | 9.16  | M15            | 8   | 25             | JIS      | 5250-116-050-17 | 19             | 18.22 | M24            | 15   | 28             | JIS      |
| 5250-116-050-07 | 11             | 10.53 | M14            | 9   | 25             | DIN-352  | 5250-116-050-17 | 19             | 18.22 | M25            | 15   | 28             | JIS      |
| 5250-116-050-07 | 11             | 10.53 | M14            | 9   | 25             | DIN-376  | 5250-116-050-18 | 20             | 19.61 | M26            | 15   | 28             | JIS      |
| 5250-116-050-08 | 11.2           | 10.53 | M14            | 9   | 25             | ISO-529  | 5250-116-050-18 | 20             | 19.61 | M27            | 15   | 28             | JIS      |
| 5250-116-050-09 | 12             | 10.53 | M16            | 9   | 25             | DIN-352  | 5250-116-050-19 | 21             | 20.5  | M28            | 17   | 35             | JIS      |
| 5250-116-050-09 | 12             | 10.53 | M16            | 9   | 25             | DIN-376  | 5250-116-050-21 | 23             | 20.5  | M30            | 17   | 35             | JIS      |
| 5250-116-050-10 | 12.5           | 11.91 | M16            | 10  | 25             | JIS      | 5250-116-050-22 | 24             | 23.4  | M32            | 19   | 35             | JIS      |
| 5250-116-050-10 | 12.5           | 11.91 | M16            | 10  | 25             | ISO-529  | 5250-116-050-23 | 25             | 23.4  | M33            | 19   | 35             | JIS      |
| 5250-116-050-11 | 13             | 11.91 | M17            | 10  | 25             | JIS      | 5250-116-050-23 | 25             | 23.4  | M33            | 20   | 35             | DIN-352  |
| 5250-116-050-12 | 14             | 12.97 | M18            | 11  | 25             | JIS      | 5250-116-050-23 | 25             | 23.4  | M33            | 20   | 35             | DIN-376  |

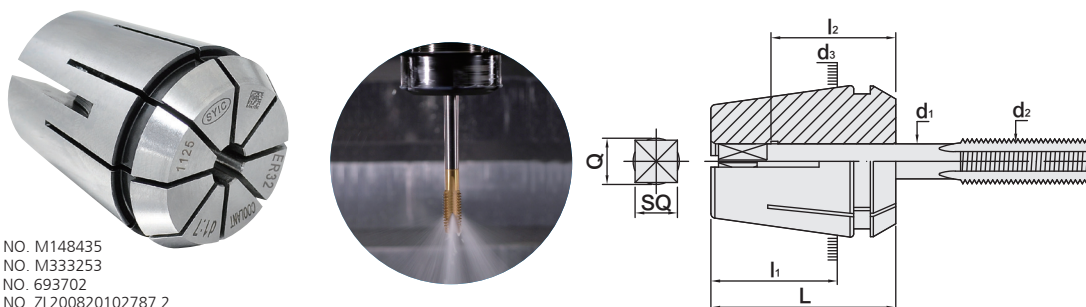
### Features:

- ▶ To clamp a tap by the slots size differential.
- ▶ This product is workable as long as d<sub>1</sub> size (shank dia. of tap) matches collet ID (patented design).
- ▶ When making an order, please inform collet type and the size of d<sub>1</sub> (shank dia. of tap).



# ER-TC RIGID TAP SEALED COLLET

ER 鋼性攻牙止水筒夾



TW PAT NO. M148435  
 TW PAT NO. M333253  
 CH PAT NO. 693702  
 CN PAT NO. ZL200820102787.2

| MODEL NO.    | TYPE       | d <sub>3</sub> | L    | l <sub>1</sub> | l <sub>2</sub> | CAPACITY |
|--------------|------------|----------------|------|----------------|----------------|----------|
| 5250-117-016 | ER - TCO16 | 16             | 27.5 | 17.5           | 18 ~ 22        | M5 ~ M10 |
| 5250-117-020 | ER - TCO20 | 20             | 31.5 | 20.7           | 18 ~ 25        | M5 ~ M17 |
| 5250-117-025 | ER - TCO25 | 25             | 34   | 23             | 18 ~ 25        | M5 ~ M22 |
| 5250-117-032 | ER - TCO32 | 32             | 40   | 27.34          | 18 ~ 28        | M5 ~ M27 |
| 5250-117-040 | ER - TCO40 | 40             | 46   | 31.34          | 18 ~ 28        | M5 ~ M27 |

| d <sub>1</sub> | Q     | d <sub>2</sub> | SQ  | l <sub>2</sub> | STANDARD | d <sub>1</sub> | Q     | d <sub>2</sub> | SQ   | l <sub>2</sub> | STANDARD |
|----------------|-------|----------------|-----|----------------|----------|----------------|-------|----------------|------|----------------|----------|
| 6              | 5.09  | M5             | 4.9 | 18             | DIN-352  | 11             | 10.53 | M14            | 9    | 25             | DIN-376  |
| 6              | 5.09  | M5             | 4.9 | 18             | DIN-371  | 11.2           | 10.53 | M14            | 9    | 25             | ISO-529  |
| 6              | 5.09  | M6             | 4.5 | 18             | JIS      | 12             | 10.53 | M16            | 9    | 25             | DIN-352  |
| 6              | 5.09  | M6             | 4.9 | 18             | DIN-352  | 12             | 10.53 | M16            | 9    | 25             | DIN-376  |
| 6              | 5.09  | M6             | 4.9 | 18             | DIN-371  | 12.5           | 11.91 | M16            | 10   | 25             | JIS      |
| 6              | 5.09  | M8             | 4.9 | 18             | DIN-352  | 12.5           | 11.91 | M16            | 10   | 25             | ISO-529  |
| 6              | 5.09  | M8             | 4.9 | 18             | DIN-376  | 13             | 11.91 | M17            | 10   | 25             | JIS      |
| 6.2            | 5.21  | M7             | 5   | 18             | JIS      | 14             | 12.97 | M18            | 11   | 25             | JIS      |
| 6.2            | 5.21  | M8             | 5   | 18             | JIS      | 14             | 12.97 | M18            | 11   | 25             | DIN-352  |
| 6.3            | 5.21  | M6             | 5   | 18             | ISO-529  | 14             | 12.97 | M18            | 11   | 25             | DIN-376  |
| 6.3            | 5.21  | M8             | 5   | 18             | ISO-529  | 14             | 12.97 | M18            | 11.2 | 25             | ISO-529  |
| 7              | 5.84  | M9             | 5.5 | 18             | JIS      | 14             | 12.97 | M20            | 11.2 | 25             | ISO-529  |
| 7              | 5.84  | M10            | 5.5 | 18             | JIS      | 15             | 14.06 | M20            | 12   | 25             | JIS      |
| 7              | 5.84  | M10            | 5.5 | 18             | DIN-352  | 16             | 14.8  | M20            | 12   | 25             | DIN-352  |
| 7              | 5.84  | M10            | 5.5 | 18             | DIN-376  | 16             | 14.8  | M20            | 12   | 25             | DIN-376  |
| 8              | 6.88  | M8             | 6.2 | 22             | DIN-371  | 16             | 14.8  | M22            | 12.5 | 25             | ISO-529  |
| 8              | 6.88  | M8             | 6.3 | 22             | ISO-529  | 17             | 15.44 | M22            | 13   | 28             | JIS      |
| 8              | 6.88  | M10            | 6.3 | 22             | ISO-529  | 18             | 17.52 | M22            | 14.5 | 28             | DIN-352  |
| 8              | 6.88  | M11            | 6   | 22             | JIS      | 18             | 17.52 | M22            | 14.5 | 28             | DIN-376  |
| 8.5            | 7.14  | M12            | 6.5 | 22             | JIS      | 18             | 17.52 | M24            | 14.5 | 28             | DIN-352  |
| 9              | 7.95  | M12            | 7   | 22             | DIN-352  | 18             | 17.52 | M24            | 14.5 | 28             | DIN-376  |
| 9              | 7.95  | M12            | 7   | 22             | DIN-376  | 18             | 17.52 | M24            | 14   | 28             | ISO-529  |
| 9              | 7.95  | M12            | 7.1 | 22             | ISO-529  | 19             | 18.22 | M24            | 15   | 28             | JIS      |
| 10             | 9.16  | M10            | 8   | 22             | DIN-371  | 19             | 18.22 | M25            | 15   | 28             | JIS      |
| 10             | 9.16  | M10            | 8   | 22             | ISO-529  | 20             | 19.61 | M26            | 15   | 28             | JIS      |
| 10.5           | 9.16  | M14            | 8   | 25             | JIS      | 20             | 19.61 | M27            | 15   | 28             | JIS      |
| 10.5           | 9.16  | M15            | 8   | 25             | JIS      | 20             | 19.61 | M27            | 16   | 28             | DIN-376  |
| 11             | 10.53 | M14            | 9   | 25             | DIN-352  | 20             | 19.61 | M27            | 16   | 28             | DIN-529  |

**INCHES**

|       |       |      |       |       |   |       |       |        |       |       |   |
|-------|-------|------|-------|-------|---|-------|-------|--------|-------|-------|---|
| 0.168 | 0.151 | 5/32 | 0.131 | 0.709 | - | 0.381 | 0.321 | 3/8    | 0.286 | 0.866 | - |
| 0.194 | 0.180 | 3/16 | 0.152 | 0.709 | - | 0.429 | 0.370 | 9/16   | 0.322 | 0.984 | - |
| 0.220 | 0.198 | 7/32 | 0.165 | 0.709 | - | 0.437 | 0.378 | 1/8 PT | 0.328 | 0.984 | - |
| 0.255 | 0.198 | 1/4  | 0.191 | 0.709 | - | 0.480 | 0.422 | 5/8    | 0.360 | 0.984 | - |
| 0.318 | 0.258 | 5/16 | 0.238 | 0.866 | - | 0.562 | 0.483 | 1/4 PT | 0.421 | 0.984 | - |
| 0.323 | 0.263 | 7/16 | 0.242 | 0.866 | - | 0.590 | 0.512 | 3/4    | 0.442 | 0.984 | - |
| 0.367 | 0.307 | 1/2  | 0.275 | 0.866 | - | 0.652 | 0.576 | 13/16  | 0.489 | 0.984 | - |

**Features:** ▶ Used for coolant-through taps. ▶ Water pressure up to 150kgf/cm<sup>2</sup>(1400PSI).

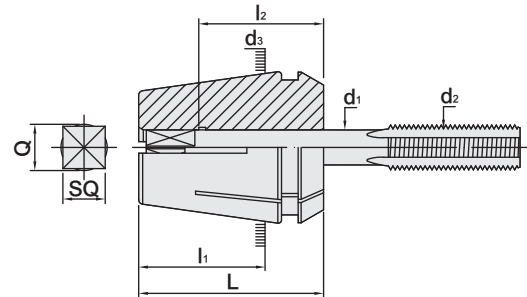
▶ When making an order, please inform collet type and d<sub>1</sub> size (shank dia. of tap).



# ER-TC RIGID TAP COOLANT COLLET FOD TYPE

ER 鋼性攻牙出水筒夾 [FOD型]

(DIN ISO 15488)



TW PAT NO. M148435  
TW PAT NO. M333253  
CH PAT NO. 693702  
CN PAT NO. ZL200820102787.2

| MODEL NO.    | TYPE      | d <sub>3</sub> | L    | l <sub>1</sub> | l <sub>2</sub> | CAPACITY |
|--------------|-----------|----------------|------|----------------|----------------|----------|
| 5250-118-016 | ER - TC16 | 16             | 27.5 | 17.5           | 18 ~ 22        | M5 ~ M10 |
| 5250-118-020 | ER - TC20 | 20             | 31.5 | 20.7           | 18 ~ 25        | M5 ~ M12 |
| 5250-118-025 | ER - TC25 | 25             | 34   | 23             | 18 ~ 25        | M5 ~ M20 |
| 5250-118-032 | ER - TC32 | 32             | 40   | 27.34          | 18 ~ 28        | M5 ~ M27 |
| 5250-118-040 | ER - TC40 | 40             | 46   | 31.34          | 18 ~ 28        | M5 ~ M27 |

| d <sub>1</sub> | Q     | d <sub>2</sub> | SQ  | l <sub>2</sub> | STANDARD | d <sub>1</sub> | Q     | d <sub>2</sub> | SQ   | l <sub>2</sub> | STANDARD |
|----------------|-------|----------------|-----|----------------|----------|----------------|-------|----------------|------|----------------|----------|
| 6              | 5.09  | M5             | 4.9 | 18             | DIN-352  | 11             | 10.53 | M14            | 9    | 25             | DIN-376  |
| 6              | 5.09  | M5             | 4.9 | 18             | DIN-371  | 11.2           | 10.53 | M14            | 9    | 25             | ISO-529  |
| 6              | 5.09  | M6             | 4.5 | 18             | JIS      | 12             | 10.53 | M16            | 9    | 25             | DIN-352  |
| 6              | 5.09  | M6             | 4.9 | 18             | DIN-352  | 12             | 10.53 | M16            | 9    | 25             | DIN-376  |
| 6              | 5.09  | M6             | 4.9 | 18             | DIN-371  | 12.5           | 11.91 | M16            | 10   | 25             | JIS      |
| 6              | 5.09  | M8             | 4.9 | 18             | DIN-352  | 12.5           | 11.91 | M16            | 10   | 25             | ISO-529  |
| 6              | 5.09  | M8             | 4.9 | 18             | DIN-376  | 13             | 11.91 | M17            | 10   | 25             | JIS      |
| 6.2            | 5.21  | M7             | 5   | 18             | JIS      | 14             | 12.97 | M18            | 11   | 25             | JIS      |
| 6.2            | 5.21  | M8             | 5   | 18             | JIS      | 14             | 12.97 | M18            | 11   | 25             | DIN-352  |
| 6.3            | 5.21  | M6             | 5   | 18             | ISO-529  | 14             | 12.97 | M18            | 11   | 25             | DIN-376  |
| 6.3            | 5.21  | M8             | 5   | 18             | ISO-529  | 14             | 12.97 | M18            | 11.2 | 25             | ISO-529  |
| 7              | 5.84  | M9             | 5.5 | 18             | JIS      | 14             | 12.97 | M20            | 11.2 | 25             | ISO-529  |
| 7              | 5.84  | M10            | 5.5 | 18             | JIS      | 15             | 14.06 | M20            | 12   | 25             | JIS      |
| 7              | 5.84  | M10            | 5.5 | 18             | DIN-352  | 16             | 14.8  | M20            | 12   | 25             | DIN-352  |
| 7              | 5.84  | M10            | 5.5 | 18             | DIN-376  | 16             | 14.8  | M20            | 12   | 25             | DIN-376  |
| 8              | 6.88  | M8             | 6.2 | 22             | DIN-371  | 16             | 14.8  | M22            | 12.5 | 25             | ISO-529  |
| 8              | 6.88  | M8             | 6.3 | 22             | ISO-529  | 17             | 15.44 | M22            | 13   | 28             | JIS      |
| 8              | 6.88  | M10            | 6.3 | 22             | ISO-529  | 18             | 17.52 | M22            | 14.5 | 28             | DIN-352  |
| 8              | 6.88  | M11            | 6   | 22             | JIS      | 18             | 17.52 | M22            | 14.5 | 28             | DIN-376  |
| 8.5            | 7.14  | M12            | 6.5 | 22             | JIS      | 18             | 17.52 | M24            | 14.5 | 28             | DIN-352  |
| 9              | 7.95  | M12            | 7   | 22             | DIN-352  | 18             | 17.52 | M24            | 14.5 | 28             | DIN-376  |
| 9              | 7.95  | M12            | 7   | 22             | DIN-376  | 18             | 17.52 | M24            | 14   | 28             | ISO-529  |
| 9              | 7.95  | M12            | 7.1 | 22             | ISO-529  | 19             | 18.22 | M24            | 15   | 28             | JIS      |
| 10             | 9.16  | M10            | 8   | 22             | DIN-371  | 19             | 18.22 | M25            | 15   | 28             | JIS      |
| 10             | 9.16  | M10            | 8   | 22             | ISO-529  | 20             | 19.61 | M26            | 15   | 28             | JIS      |
| 10.5           | 9.16  | M14            | 8   | 25             | JIS      | 20             | 19.61 | M27            | 15   | 28             | JIS      |
| 10.5           | 9.16  | M15            | 8   | 25             | JIS      | 20             | 19.61 | M27            | 16   | 28             | DIN-376  |
| 11             | 10.53 | M14            | 9   | 25             | DIN-352  | 20             | 19.61 | M27            | 16   | 28             | DIN-529  |

**INCHES**

|       |       |      |       |       |   |       |       |        |       |       |   |
|-------|-------|------|-------|-------|---|-------|-------|--------|-------|-------|---|
| 0.168 | 0.151 | 5/32 | 0.131 | 0.709 | - | 0.381 | 0.321 | 3/8    | 0.286 | 0.866 | - |
| 0.194 | 0.180 | 3/16 | 0.152 | 0.709 | - | 0.429 | 0.370 | 9/16   | 0.322 | 0.984 | - |
| 0.220 | 0.198 | 7/32 | 0.165 | 0.709 | - | 0.437 | 0.378 | 1/8 PT | 0.328 | 0.984 | - |
| 0.255 | 0.198 | 1/4  | 0.191 | 0.709 | - | 0.480 | 0.422 | 5/8    | 0.360 | 0.984 | - |
| 0.318 | 0.258 | 5/16 | 0.238 | 0.866 | - | 0.562 | 0.483 | 1/4 PT | 0.421 | 0.984 | - |
| 0.323 | 0.263 | 7/16 | 0.242 | 0.866 | - | 0.590 | 0.512 | 3/4    | 0.442 | 0.984 | - |
| 0.367 | 0.307 | 1/2  | 0.275 | 0.866 | - | 0.652 | 0.576 | 13/16  | 0.489 | 0.984 | - |

**Features:** ▶ Used for taps without coolant hole. ▶ Water pressure up to 150kgf/cm<sup>2</sup>(1400PSI).

▶ When making an order, please inform collet type and d<sub>1</sub> size (shank dia. of tap).

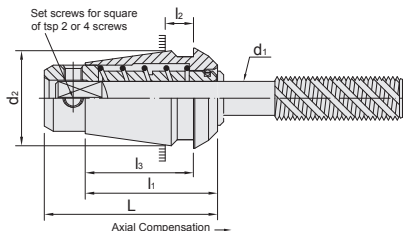




# ER FLOATING TAP COLLET

ER 伸縮攻牙筒夾

(DIN ISO 15488)



| TYPE  | L    | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | d <sub>2</sub> | WEIGHT (KGS) |
|-------|------|----------------|----------------|----------------|----------------|--------------|
| FT 16 | 28.6 | 22             | 3              | 18             | 16             | 0.03         |
| FT 20 | 31   | 24             | 5.85           | 18.85          | 20             | 0.05         |
| FT 25 | 34   | 24.5           | 3              | 18.1           | 25             | 0.06         |
| FT 32 | 43.3 | 31             | 7              | 25.5           | 32             | 0.10         |
| FT 40 | 54   | 42             | 3              | 42             | 40             | 0.25         |

| FT 16           |                | FT 20           |                | FT 25           |                | FT 32           |                | FT 40           |                |
|-----------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|
| MODEL NO.       | d <sub>1</sub> | MODEL NO.       | d <sub>1</sub> | MODEL NO.       | d <sub>1</sub> | MODEL NO.       | d <sub>1</sub> | MODEL NO.       | d <sub>1</sub> |
| 5250-148-016-01 | 1.4            | 5250-148-020-01 | 2.24           | 5250-148-025-01 | 2.5            | 5250-148-032-02 | 4.5            | 5250-148-040-01 | 6              |
| 5250-148-016-02 | 1.6            | 5250-148-020-02 | 2.5            | 5250-148-025-02 | 2.8            | 5250-148-032-03 | 5              | 5250-148-040-02 | 6.2            |
| 5250-148-016-03 | 1.8            | 5250-148-020-03 | 2.8            | 5250-148-025-03 | 3              | 5250-148-032-04 | 5.5            | 5250-148-040-03 | 6.3            |
| 5250-148-016-04 | 2              | 5250-148-020-04 | 3              | 5250-148-025-04 | 3.15           | 5250-148-032-05 | 5.6            | 5250-148-040-04 | 7              |
| 5250-148-016-05 | 2.24           | 5250-148-020-05 | 3.15           | 5250-148-025-05 | 3.5            | 5250-148-032-06 | 6              | 5250-148-040-05 | 7.1            |
| 5250-148-016-06 | 2.5            | 5250-148-020-06 | 3.5            | 5250-148-025-06 | 3.55           | 5250-148-032-07 | 6.2            | 5250-148-040-06 | 8              |
| 5250-148-016-07 | 2.8            | 5250-148-020-07 | 3.55           | 5250-148-025-07 | 4              | 5250-148-032-08 | 6.3            | 5250-148-040-07 | 8.5            |
| 5250-148-016-08 | 3              | 5250-148-020-08 | 4              | 5250-148-025-08 | 4.5            | 5250-148-032-09 | 7              | 5250-148-040-08 | 9              |
| 5250-148-016-09 | 3.15           | 5250-148-020-09 | 4.5            | 5250-148-025-09 | 5              | 5250-148-032-10 | 7.1            | 5250-148-040-09 | 10             |
| 5250-148-016-10 | 3.5            | 5250-148-020-10 | 5              | 5250-148-025-10 | 5.5            | 5250-148-032-11 | 8              | 5250-148-040-10 | 10.5           |
| 5250-148-016-11 | 3.55           | 5250-148-020-11 | 5.5            | 5250-148-025-11 | 5.6            | 5250-148-032-12 | 8.5            | 5250-148-040-11 | 11             |
| 5250-148-016-12 | 4              | 5250-148-020-12 | 5.6            | 5250-148-025-12 | 6              | 5250-148-032-13 | 9              | 5250-148-040-12 | 11.2           |
| 5250-148-016-13 | 4.5            | 5250-148-020-13 | 6              | 5250-148-025-13 | 6.2            | 5250-148-032-14 | 10             | 5250-148-040-13 | 12             |
| 5250-148-016-14 | 5              | 5250-148-020-14 | 6.2            | 5250-148-025-17 | 7.1            | 5250-148-032-15 | 10.5           | 5250-148-040-14 | 12.5           |
| 5250-148-016-15 | 5.5            | 5250-148-020-15 | 6.3            | 5250-148-025-18 | 8              | 5250-148-032-16 | 11             | 5250-148-040-15 | 14             |
| 5250-148-016-23 | 5.6            | 5250-148-020-16 | 7              | 5250-148-025-19 | 8.5            | 5250-148-032-17 | 11.2           | <b>INCHES</b>   |                |
| 5250-148-016-16 | 6              | <b>INCHES</b>   |                | 5250-148-025-20 | 9              | 5250-148-032-18 | 12             | 5250-148-040-30 | 0.255          |
| <b>INCHES</b>   |                | 5250-148-020-19 | 0.141          | 5250-148-025-21 | 10             | 5250-148-032-19 | 12.5           | 5250-148-040-18 | 0.318          |
| 5250-148-016-18 | 0.141          | 5250-148-020-20 | 0.168          | <b>INCHES</b>   |                | <b>INCHES</b>   |                | 5250-148-040-19 | 0.323          |
| 5250-148-016-19 | 0.168          | 5250-148-020-21 | 0.194          | 5250-148-025-24 | 0.141          | 5250-148-032-24 | 0.168          | 5250-148-040-20 | 0.367          |
| 5250-148-016-21 | 0.220          | 5250-148-020-22 | 0.22           | 5250-148-025-25 | 0.168          | 5250-148-032-25 | 0.194          | 5250-148-040-21 | 0.381          |
|                 |                | 5250-148-020-23 | 0.255          | 5250-148-025-26 | 0.194          | 5250-148-032-26 | 0.220          | 5250-148-040-22 | 0.429          |
|                 |                |                 |                | 5250-148-025-27 | 0.220          | 5250-148-032-27 | 0.255          | 5250-148-040-23 | 0.437          |
|                 |                |                 |                | 5250-148-025-28 | 0.255          | 5250-148-032-28 | 0.318          | 5250-148-040-24 | 0.480          |
|                 |                |                 |                | 5250-148-025-29 | 0.318          | 5250-148-032-29 | 0.323          | 5250-148-040-25 | 0.542          |
|                 |                |                 |                | 5250-148-025-30 | 0.323          | 5250-148-032-30 | 0.367          | 5250-148-040-26 | 0.562          |
|                 |                |                 |                | 5250-148-025-31 | 0.367          | 5250-148-032-31 | 0.381          | 5250-148-040-27 | 0.590          |
|                 |                |                 |                |                 |                | 5250-148-032-32 | 0.429          | 5250-148-040-28 | 0.652          |
|                 |                |                 |                |                 |                | 5250-148-032-33 | 0.437          | 5250-148-040-29 | 0.697          |
|                 |                |                 |                |                 |                | 5250-148-032-35 | 0.480          |                 |                |

**Features:**

- ▶ This product can avoid taps breaking when spindle reverses direction during tapping process.
- ▶ There are side lock screws at the bottom of collet, used for clamping a tap.
- ▶ Suitable for taps conforming to ISO-529, JIS, DIN-371, DIN-376 or DIN-352 standards.

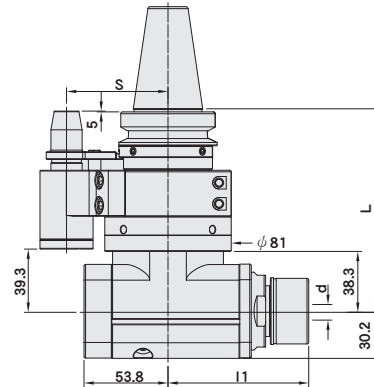


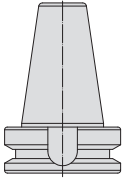
# SAC ANGLE HEAD HOLDER

## FOR MEDIUM CUTTING

SAC 中鋼炮銑削頭

(PRO-E TYPE)



| SHANK  | MODEL NO.        | TYPE                 | L   | l <sub>1</sub> | S  | TORQUE | COLLET | d<br>SIZE RANGE | WEIGHT<br>(KGS) |
|--|------------------|----------------------|-----|----------------|----|--------|--------|-----------------|-----------------|
| <br>DualDRIVE+ | 5026-S96-161-130 | SBT40 x SAC16P - 130 | 130 | 90             | 65 | 25 N-m | ER16   | 1 ~ 10          | 6.40            |
|  | 5026-S96-201-130 | SBT40 x SAC20P - 130 | 130 | 90             | 65 | 25 N-m | ER20   | 1 ~ 13          | 6.40            |
|  | 5026-S96-251-130 | SBT40 x SAC25P - 130 | 130 | 90             | 65 | 25 N-m | ER25   | 1 ~ 16          | 6.40            |
|  | 5026-S96-321-130 | SBT40 x SAC32P - 130 | 130 | 95             | 65 | 25 N-m | ER32   | 2 ~ 20          | 6.44            |
|  | 5027-S96-162-147 | SBT50 x SAC16P - 147 | 147 | 90             | 80 | 25 N-m | ER16   | 1 ~ 10          | 8.40            |
|  | 5027-S96-202-147 | SBT50 x SAC20P - 147 | 147 | 90             | 80 | 25 N-m | ER20   | 1 ~ 13          | 8.40            |
|  | 5027-S96-252-147 | SBT50 x SAC25P - 147 | 147 | 90             | 80 | 25 N-m | ER25   | 1 ~ 16          | 8.40            |
|  | 5027-S96-322-147 | SBT50 x SAC32P - 147 | 147 | 95             | 80 | 25 N-m | ER32   | 2 ~ 20          | 8.44            |

**Product information:**

- ▶ Gear ratio 1:1. ▶ Max. revolution: 3000rpm. ▶ Suggested Ap ≤ 3mm.
- ▶ Internal coolant not available. ▶ Rotating direction opposite to machine spindle. ▶ Can be used for ATC.



**Reminder:**

- ▶ Fixed blocks are necessary for installing angle head on the machine [P.58~59].
- ▶ Fixed blocks are varied by different machine designs. Please confirm the detailed dimensions when ordering.

Optional  
Fixed Block



P.58~59

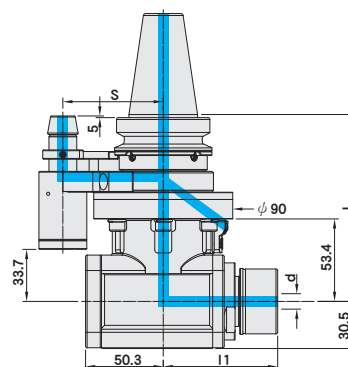


# SAM ANGLE HEAD HOLDER

## FOR LIGHT CUTTING

SAM 小鋼炮銑削頭

(PRO-E TYPE)



### WITH COOLANT SYSTEM

| SHANK             | MODEL NO.        | TYPE                 | L   | l <sub>1</sub> | S  | TORQUE | COLLET | SIZE RANGE | WEIGHT (KGS) |
|-------------------|------------------|----------------------|-----|----------------|----|--------|--------|------------|--------------|
| <p>DualDRIVE+</p> | 5026-634-161-120 | SBT40 x SAM16P - 120 | 120 | 71             | 65 | 20 N-m | ER16   | 1 ~ 10     | 6.40         |
|                   | 5026-634-201-120 | SBT40 x SAM20P - 120 | 120 | 73             | 65 | 20 N-m | ER20   | 1 ~ 13     | 6.40         |
|                   | 5026-634-251-120 | SBT40 x SAM25P - 120 | 120 | 74             | 65 | 20 N-m | ER25   | 1 ~ 16     | 6.40         |
|                   | 5026-634-321-120 | SBT40 x SAM32P - 120 | 120 | 76             | 65 | 20 N-m | ER32   | 2 ~ 20     | 6.44         |
|                   | 5027-634-162-135 | SBT50 x SAM16P - 135 | 135 | 71             | 80 | 20 N-m | ER16   | 1 ~ 10     | 8.40         |
|                   | 5027-634-202-135 | SBT50 x SAM20P - 135 | 135 | 73             | 80 | 20 N-m | ER20   | 1 ~ 13     | 8.40         |
|                   | 5027-634-252-135 | SBT50 x SAM25P - 135 | 135 | 74             | 80 | 20 N-m | ER25   | 1 ~ 16     | 8.40         |
|                   | 5027-634-322-135 | SBT50 x SAM32P - 135 | 135 | 76             | 80 | 20 N-m | ER32   | 2 ~ 20     | 8.44         |

### Product information:

- ▶ Gear ratio 1:1.
- ▶ Max. revolution: 4000rpm.
- ▶ Suggested  $A_p \leq 2\text{mm}$ .
- ▶ Coolant feed through spindle or dowel pin, coolant outlet from cutting tools or coolant nozzles.
- ▶ Max. water pressure:  $7\text{kgf/cm}^2$ (100PSI).
- ▶ Rotating direction opposite to machine spindle.
- ▶ Can be used for ATC.



### Reminder:

- ▶ Fixed blocks are necessary for installing angle head on the machine [P.58~59].
- ▶ Fixed blocks are varied by different machine designs. Please confirm the detailed dimensions when ordering.

### Optional Fixed Block



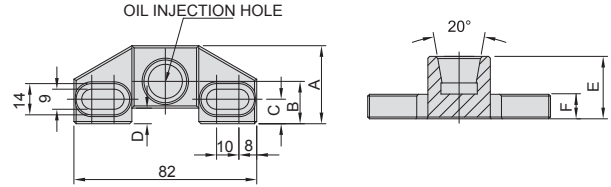
P.58~59



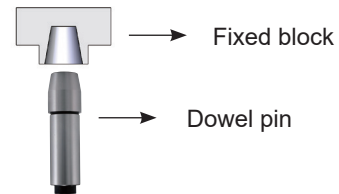
# FIXED BLOCK

## ONE PIECE TYPE

定位塊



| MODEL NO.       | TYPE     | NAME                         | A  | B    | C  | D | E  | F  | WEIGHT (KGS) |
|-----------------|----------|------------------------------|----|------|----|---|----|----|--------------|
| 5350-673-040-00 | SFT - 40 | #40 FIXED BLOCK (Taper Type) | 40 | 18.5 | 10 | 5 | 30 | 13 | 0.30         |
| 5350-673-050-00 | SFT - 50 | #50 FIXED BLOCK (Taper Type) | 34 | 19   | 11 | 7 | 35 | 15 | 0.32         |



**Features:**

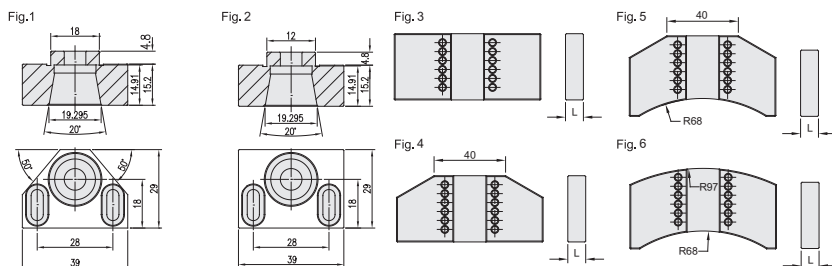
- ▶ Fixed block must be purchased according to the type of dowel pin.
- ▶ Fixed block can be installed on the spindle but must be fixed on the machine well. Otherwise, it is a threat for ATC tool change arm. Installation way changes with different machines. Please confirm with your machine supplier about correct installation way.



# FIXED BLOCK

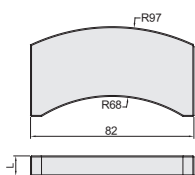
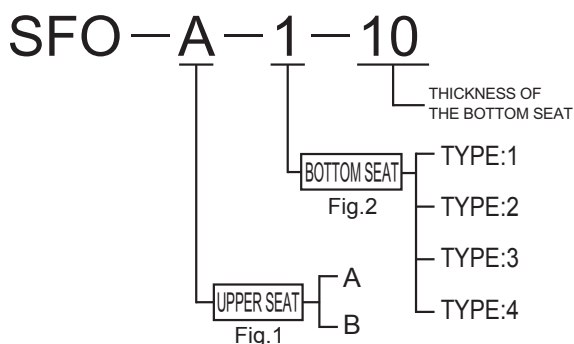
## COMBINATION TYPE

### 組合式定位塊



TW PAT NO. M417219  
CN PAT NO. ZL201120289100.2

| TYPE            | UPPER SEAT |      | BOTTOM SEAT |      |    |
|-----------------|------------|------|-------------|------|----|
|                 | TYPE       | Fig. | TYPE        | Fig. | L  |
| 5350-771-010-00 | SFO-A      | 1    | SFO-1-10    | 3    | 10 |
| 5350-771-015-00 | SFO-A      | 1    | SFO-1-15    | 3    | 15 |
| 5350-771-010-01 | SFO-A      | 1    | SFO-2-10    | 4    | 10 |
| 5350-771-015-01 | SFO-A      | 1    | SFO-2-15    | 4    | 15 |
| 5350-771-010-02 | SFO-A      | 1    | SFO-3-10    | 5    | 10 |
| 5350-771-015-02 | SFO-A      | 1    | SFO-3-15    | 5    | 15 |
| 5350-771-010-03 | SFO-A      | 1    | SFO-4-10    | 6    | 10 |
| 5350-771-015-03 | SFO-A      | 1    | SFO-4-15    | 6    | 15 |
| 5350-772-010-00 | SFO-B      | 2    | SFO-1-10    | 3    | 10 |
| 5350-772-015-00 | SFO-B      | 2    | SFO-1-15    | 3    | 15 |
| 5350-772-010-01 | SFO-B      | 2    | SFO-2-10    | 4    | 10 |
| 5350-772-015-01 | SFO-B      | 2    | SFO-2-15    | 4    | 15 |
| 5350-772-010-02 | SFO-B      | 2    | SFO-3-10    | 5    | 10 |
| 5350-772-015-02 | SFO-B      | 2    | SFO-3-15    | 5    | 15 |
| 5350-772-010-03 | SFO-B      | 2    | SFO-4-10    | 6    | 10 |
| 5350-772-015-03 | SFO-B      | 2    | SFO-4-15    | 6    | 15 |



| TYPE            | L  | TYPE     | L  |
|-----------------|----|----------|----|
| 5350-622-005-00 | 5  | SFD-4-20 | 20 |
| 5350-622-010-00 | 10 | SFD-4-25 | 25 |
| 5350-622-015-00 | 15 |          |    |

**Product information:**

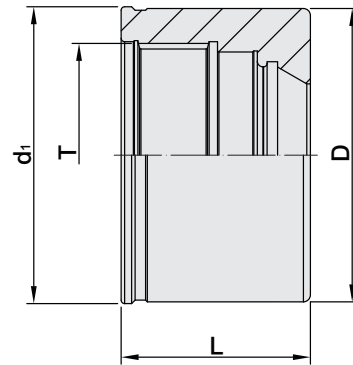
► If the height of the fixed block needs to be added, adjustable pads need to be purchased additionally.



# PRO - E POWER GOOD NUT



## PRO - E 包固得威力鍍層螺帽



| MODEL NO.    | TYPE       | L    | D  | d <sub>1</sub> | T          | RECOMMENDED TIGHTENING TORQUE |           | WEIGHT (KGS) |
|--------------|------------|------|----|----------------|------------|-------------------------------|-----------|--------------|
| 5202-529-016 | PRO - E16  | 22   | 30 | 30.3           | M22 x 1.5P | 40 N-m                        | 30 ft/lbs | 0.06         |
| 5202-529-020 | PRO - E20  | 23.5 | 35 | 35.3           | M27 x 1.5P | 60 N-m                        | 44 ft/lbs | 0.09         |
| 5202-529-025 | PRO - E25  | 24.6 | 42 | 42.7           | M32 x 1.5P | 80 N-m                        | 59 ft/lbs | 0.14         |
| 5202-529-032 | PRO - E32  | 27   | 50 | 50.7           | M40 x 1.5P | 110 N-m                       | 81 ft/lbs | 0.19         |
| 5202-529-011 | PRO - E11M | 14.3 | 16 | 16.7           | M14 x 0.7P | 20 N-m                        | 14 ft/lbs | 0.08         |

**Features:**

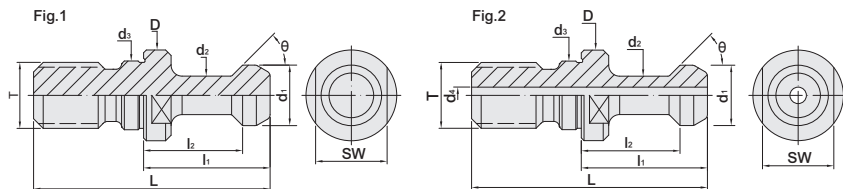
- ▶ Its non-slot design decreases wind shear, and can be used for high speed application.
- ▶ Balance: G2.5 25,000 rpm.





# BT PULL STUD

## BT 螺栓拉頭



### W/O Coolant

| MODEL NO.      | TYPE       | L  | l <sub>1</sub> | l <sub>2</sub> | D    | d <sub>1</sub> | d <sub>2</sub> | d <sub>3</sub> | d <sub>4</sub> | θ   | T   | SW | Fig. | WEIGHT (KGS) |
|----------------|------------|----|----------------|----------------|------|----------------|----------------|----------------|----------------|-----|-----|----|------|--------------|
| 5230-010-45-00 | BT30 - 45° | 43 | 23             | 18             | 16.5 | 11             | 7              | 12.5           | -              | 45° | M12 | 13 | 1    | 0.04         |
| 5230-011-45-00 | BT40 - 45° | 60 | 35             | 28             | 23   | 15             | 10             | 17             | -              | 45° | M16 | 19 | 1    | 0.10         |
| 5230-012-45-00 | BT50 - 45° | 85 | 45             | 35             | 38   | 23             | 17             | 25             | -              | 45° | M24 | 30 | 1    | 0.30         |
| 5230-010-60-00 | BT30 - 60° | 43 | 23             | 18             | 16.5 | 11             | 7              | 12.5           | -              | 60° | M12 | 13 | 1    | 0.04         |
| 5230-011-60-00 | BT40 - 60° | 60 | 35             | 28             | 23   | 15             | 10             | 17             | -              | 60° | M16 | 19 | 1    | 0.10         |
| 5230-012-60-00 | BT50 - 60° | 85 | 45             | 35             | 38   | 23             | 17             | 25             | -              | 60° | M24 | 30 | 1    | 0.30         |
| 5230-010-90-00 | BT30 - 90° | 43 | 23             | 18             | 16.5 | 11             | 7              | 12.5           | -              | 90° | M12 | 13 | 1    | 0.04         |
| 5230-011-90-00 | BT40 - 90° | 60 | 35             | 28             | 23   | 15             | 10             | 17             | -              | 90° | M16 | 19 | 1    | 0.10         |
| 5230-012-90-00 | BT50 - 90° | 85 | 45             | 35             | 38   | 23             | 17             | 25             | -              | 90° | M24 | 30 | 1    | 0.30         |

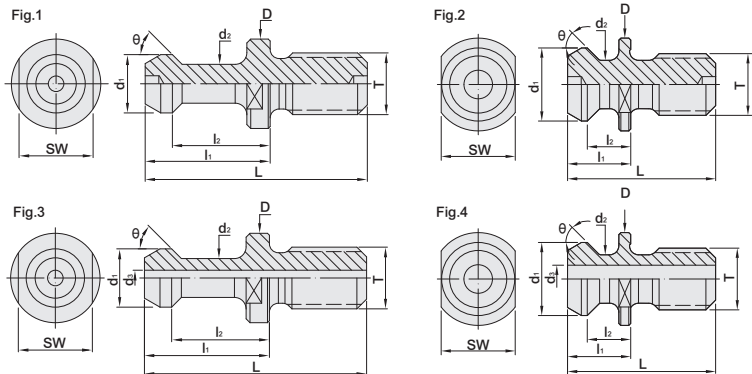
### Coolant Thru

|                |                        |      |      |       |      |       |       |      |    |     |     |    |   |      |
|----------------|------------------------|------|------|-------|------|-------|-------|------|----|-----|-----|----|---|------|
| 5231-010-45-00 | BT30 - 45° - C         | 43   | 23   | 18    | 16.5 | 11    | 7     | 12.5 | 3  | 45° | M12 | 13 | 2 | 0.10 |
| 5231-011-15-00 | BT40 - 15° - C         | 54   | 29   | 23    | 23   | 19    | 14    | 17   | 7  | 15° | M16 | 19 | 2 | 0.10 |
| 5231-011-45-00 | BT40 - 45° - C         | 60   | 35   | 28    | 23   | 15    | 10    | 17   | 4  | 45° | M16 | 19 | 2 | 0.10 |
| 5231-011-45-01 | BT40 - 45° - C - MAZAK | 44.1 | 19.1 | 14.02 | 22   | 18.79 | 12.44 | 17   | 7  | 45° | M16 | 19 | 2 | 0.10 |
| 5231-012-45-00 | BT50 - 45° - C         | 85   | 45   | 35    | 38   | 23    | 17    | 25   | 5  | 45° | M24 | 30 | 2 | 0.30 |
| 5231-012-45-01 | BT50 - 45° - C - MAZAK | 65.4 | 25.4 | 17.78 | 35.5 | 28.95 | 20.8  | 25   | 10 | 45° | M24 | 30 | 2 | 0.30 |
| 5231-011-60-00 | BT40 - 60° - C         | 60   | 35   | 28    | 23   | 15    | 10    | 17   | 4  | 60° | M16 | 19 | 2 | 0.10 |
| 5231-012-60-00 | BT50 - 60° - C         | 85   | 45   | 35    | 38   | 23    | 17    | 25   | 5  | 60° | M24 | 30 | 2 | 0.30 |
| 5231-011-90-00 | BT40 - 90° - C         | 60   | 35   | 28    | 23   | 15    | 10    | 17   | 4  | 90° | M16 | 19 | 2 | 0.10 |
| 5231-012-90-00 | BT50 - 90° - C         | 85   | 45   | 35    | 38   | 23    | 17    | 25   | 5  | 90° | M24 | 30 | 2 | 0.30 |



# CAT PULL STUD

## CAT 螺栓拉頭



### W/O Coolant

| MODEL NO.      | TYPE              | L     | l <sub>1</sub> | l <sub>2</sub> | D     | d <sub>1</sub> | d <sub>2</sub> | d <sub>3</sub> | θ   | SW    | T-UNC     | Fig. | WEIGHT (KGS) |
|----------------|-------------------|-------|----------------|----------------|-------|----------------|----------------|----------------|-----|-------|-----------|------|--------------|
| 5230-031-45-00 | CAT40 - ANSI      | 1.5   | 0.64           | 0.44           | 0.94  | 0.74           | 0.49           | -              | 45° | 0.75  | 5/8" - 11 | 2    | 0.09         |
| 5230-032-45-00 | CAT50 - ANSI      | 2.3   | 1              | 0.7            | 1.44  | 1.14           | 0.82           | -              | 45° | 1.25  | 1" - 8    | 2    | 0.25         |
| 5230-031-45-01 | CAT40 - MAS - I   | 2.25  | 1.266          | 0.99           | 0.905 | 0.59           | 0.394          | -              | 45° | 0.748 | 5/8" - 11 | 1    | 0.09         |
| 5230-031-60-00 | CAT40 - MAS - II  | 2.25  | 1.266          | 0.99           | 0.905 | 0.59           | 0.394          | -              | 60° | 0.748 | 5/8" - 11 | 1    | 0.09         |
| 5230-031-90-00 | CAT40 - MAS - III | 2.25  | 1.266          | 0.99           | 0.905 | 0.59           | 0.394          | -              | 90° | 0.748 | 5/8" - 11 | 1    | 0.09         |
| 5230-032-45-01 | CAT50 - MAS - I   | 3.346 | 1.772          | 1.378          | 1.496 | 0.906          | 0.669          | -              | 45° | 1.181 | 1" - 8    | 1    | 0.25         |
| 5230-032-60-00 | CAT50 - MAS - II  | 3.346 | 1.772          | 1.378          | 1.496 | 0.906          | 0.669          | -              | 60° | 1.181 | 1" - 8    | 1    | 0.25         |
| 5230-032-90-00 | CAT50 - MAS - III | 3.346 | 1.772          | 1.378          | 1.496 | 0.906          | 0.669          | -              | 90° | 1.181 | 1" - 8    | 1    | 0.25         |

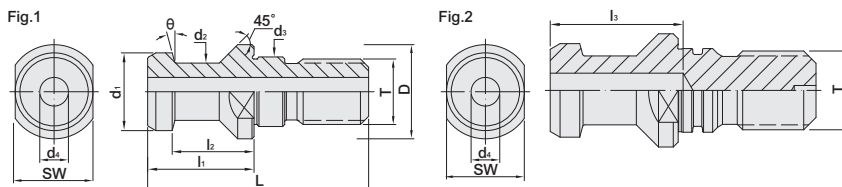
### Coolant Thru

|                |                       |       |       |       |       |       |       |       |     |       |           |   |      |
|----------------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-----------|---|------|
| 5231-031-45-00 | CAT40 - ANSI          | 1.5   | 0.64  | 0.44  | 0.94  | 0.74  | 0.49  | 0.281 | 45° | 0.75  | 5/8" - 11 | 4 | 0.09 |
| 5231-032-45-00 | CAT50 - ANSI          | 2.3   | 1     | 0.7   | 1.44  | 1.14  | 0.82  | 0.468 | 45° | 1.25  | 1" - 8    | 4 | 0.25 |
| 5231-031-45-01 | CAT40 - Coolant - I   | 2.25  | 1.266 | 0.99  | 0.905 | 0.59  | 0.394 | 0.157 | 45° | 0.748 | 5/8" - 11 | 3 | 0.09 |
| 5231-031-60-00 | CAT40 - Coolant - II  | 2.25  | 1.266 | 0.99  | 0.905 | 0.59  | 0.394 | 0.157 | 60° | 0.748 | 5/8" - 11 | 3 | 0.09 |
| 5231-031-90-00 | CAT40 - Coolant - III | 2.25  | 1.266 | 0.99  | 0.905 | 0.59  | 0.394 | 0.157 | 90° | 0.748 | 5/8" - 11 | 3 | 0.09 |
| 5231-032-45-01 | CAT50 - Coolant - I   | 3.346 | 1.772 | 1.378 | 1.496 | 0.906 | 0.669 | 0.256 | 45° | 1.181 | 1" - 8    | 3 | 0.25 |
| 5231-032-60-00 | CAT50 - Coolant - II  | 3.346 | 1.772 | 1.378 | 1.496 | 0.906 | 0.669 | 0.256 | 60° | 1.181 | 1" - 8    | 3 | 0.25 |
| 5231-032-90-00 | CAT50 - Coolant - III | 3.346 | 1.772 | 1.378 | 1.496 | 0.906 | 0.669 | 0.256 | 90° | 1.181 | 1" - 8    | 3 | 0.25 |

# DAT PULL STUD

DAT 螺栓拉頭

(DIN 7388 - 3)

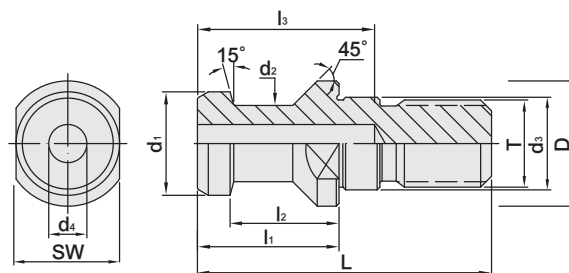


**W/O Coolant**

| MODEL NO.      | TYPE      | L  | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | D  | d <sub>1</sub> | d <sub>2</sub> | d <sub>3</sub> | d <sub>4</sub> | θ   | SW | T   | Fig. | WEIGHT (KGS) |
|----------------|-----------|----|----------------|----------------|----------------|----|----------------|----------------|----------------|----------------|-----|----|-----|------|--------------|
| 5230-050-15-01 | DAT30 - B | 44 | 24             | 19             | -              | 17 | 13             | 9              | 13             | -              | 15° | 14 | M12 | 2    | 0.03         |
| 5230-051-15-01 | DAT40 - B | 54 | 26             | 20             | 27             | 23 | 19             | 14             | 17             | 7              | 15° | 19 | M16 | 2    | 0.09         |
| 5230-052-15-01 | DAT50 - B | 74 | 34             | 25             | 37             | 36 | 28             | 21             | 25             | 11.5           | 15° | 30 | M24 | 2    | 0.25         |
| 5230-050-15-02 | DAT30 - A | 44 | 24             | 19             | -              | 17 | 13             | 9              | 13             | -              | 15° | 14 | M12 | 1    | 0.03         |

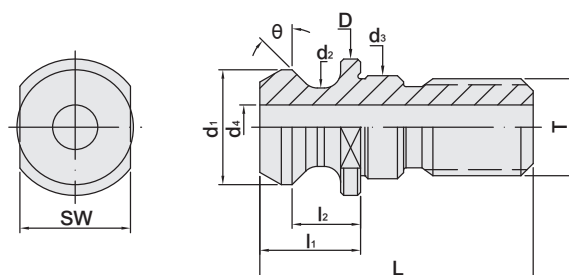
**Coolant Thru**

|                |               |    |    |    |   |    |    |    |    |      |     |    |     |   |      |
|----------------|---------------|----|----|----|---|----|----|----|----|------|-----|----|-----|---|------|
| 5231-051-15-01 | DAT40 - A - C | 54 | 26 | 20 | - | 23 | 19 | 14 | 17 | 7    | 15° | 19 | M16 | 1 | 0.09 |
| 5231-052-15-01 | DAT50 - A - C | 74 | 34 | 25 | - | 36 | 28 | 21 | 25 | 11.5 | 15° | 30 | M24 | 1 | 0.25 |



| MODEL NO.      | TYPE  | L  | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | D  | d <sub>1</sub> | d <sub>2</sub> | d <sub>3</sub> | d <sub>4</sub> | T   | WEIGHT (KGS) |
|----------------|-------|----|----------------|----------------|----------------|----|----------------|----------------|----------------|----------------|-----|--------------|
| 5230-051-15-02 | DAT40 | 54 | 26             | 20             | 27             | 23 | 19             | 14             | 17             | 7              | M16 | 0.09         |

(DIN ISO 7388 - UD)



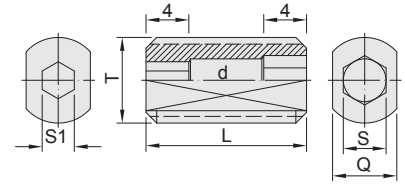
**Coolant Thru**

| MODEL NO.      | TYPE          | L    | l <sub>1</sub> | l <sub>2</sub> | D    | d <sub>1</sub> | d <sub>2</sub> | d <sub>3</sub> | d <sub>4</sub> | θ   | SW | T   | WEIGHT (KGS) |
|----------------|---------------|------|----------------|----------------|------|----------------|----------------|----------------|----------------|-----|----|-----|--------------|
| 5231-051-15-02 | DAT40 - A - C | 54   | 26             | 20             | 23   | 19             | 14             | 17             | 7              | 15° | 19 | M16 | 0.09         |
| 5231-052-15-02 | DAT50 - A - C | 74   | 34             | 25             | 36   | 28             | 21             | 25             | 11.5           | 15° | 30 | M24 | 0.25         |
| 5231-051-45-01 | DAT40 - B - C | 44.5 | 16.4           | 11.15          | 22.5 | 18.95          | 12.95          | 17             | 7.35           | 45° | 18 | M16 | 0.03         |
| 5231-052-45-01 | DAT50 - B - C | 65.5 | 25.55          | 17.95          | 37   | 29.1           | 19.6           | 25             | 11.55          | 45° | 30 | M24 | 0.10         |



# SCREW

## 給水型擋刀螺絲



### COOLANT PRESET SCREW



| MODEL NO.         | T           | L  | d | S   | S1  | Q  | WEIGHT (KGS) |
|-------------------|-------------|----|---|-----|-----|----|--------------|
| 202-022-10050-000 | M5 x 0.8P   | 15 | 2 | 2   | 2   | 3  | 0.003        |
| 202-022-10060-001 | M6 x 1.0P   | 15 | 3 | 2.5 | 2.5 | 4  | 0.003        |
| 202-022-10080-002 | M8 x 1.25P  | 15 | 4 | 4   | 3   | 6  | 0.005        |
| 202-022-10100-002 | M10 x 1.5P  | 15 | 5 | 5   | 4   | 8  | 0.005        |
| 202-022-10120-002 | M12 x 1.75P | 15 | 6 | 6   | 5   | 10 | 0.01         |
| 202-022-10160-002 | M16 x 2.0P  | 25 | 6 | 8   | 6   | 14 | 0.01         |
| 202-022-20200-003 | M20 x 2.0P  | 25 | 6 | 10  | 8   | 18 | 0.03         |

## 給水型擋刀螺絲

### COOLANT PRESET SCREW



| MODEL NO.         | TYPE             | WEIGHT (KGS) | MODER NO.         | TYPE            | WEIGHT (KGS) |
|-------------------|------------------|--------------|-------------------|-----------------|--------------|
| 202-022-10050-001 | M5 x 0.8P - 20   | 0.002        | 202-022-20180-001 | M18 x 1.5P - 25 | 0.02         |
| 202-022-10060-000 | M6 x 1.0P - 15   | 0.003        | 202-022-20200-000 | M20 x 2.0P - 15 | 0.03         |
| 202-022-10080-000 | M8 x 1.25P - 15  | 0.005        | 202-022-20220-001 | M22 x 1.5P - 25 | 0.03         |
| 202-022-10100-000 | M10 x 1.5P - 15  | 0.005        | 202-022-20240-000 | M24 x 2.0P - 15 | 0.05         |
| 202-022-10120-000 | M12 x 1.75P - 15 | 0.01         | 202-022-10280-000 | M28 x 2.0P - 30 | 0.05         |
| 202-022-10116-000 | M16 x 2.0P - 15  | 0.01         |                   |                 |              |

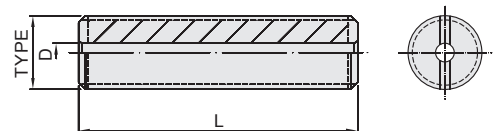
## 擋刀螺絲

### PRESET SCREW



| MODEL NO.         | TYPE             | WEIGHT (KGS) | MODER NO.         | TYPE            | WEIGHT (KGS) |
|-------------------|------------------|--------------|-------------------|-----------------|--------------|
| 202-006-10060-000 | M6 x 1.0P - 15   | 0.003        | 202-006-10160-000 | M16 x 2.0P - 15 | 0.03         |
| 202-006-10080-000 | M8 x 1.25P - 15  | 0.005        | 202-006-20200-000 | M20 x 2.0P - 15 | 0.03         |
| 202-006-10100-000 | M10 x 1.5P - 15  | 0.01         | 202-006-20240-000 | M24 x 2.0P - 15 | 0.05         |
| 202-006-10120-000 | M12 x 1.75P - 15 | 0.01         |                   |                 |              |

## MLD 設定螺絲



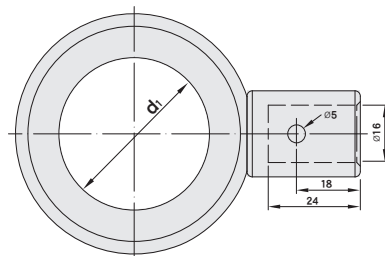
### SET SCREW



| MODEL NO.         | TYPE         | L  | D  | WEIGHT (KGS) |
|-------------------|--------------|----|----|--------------|
| 202-006-10120-002 | M12 x 1.75P  | 40 | φ4 | 0.03         |
| 202-006-10160-002 | M16 x 2.0P   | 60 | φ4 | 0.05         |
| 202-006-10160-001 | M16 x 2.0P   | 35 | φ4 | 0.05         |
| 202-006-3A400-000 | 5/8" - 11UNC | 60 | φ4 | 0.07         |
| 202-006-3A400-001 | 5/8" - 11UNC | 35 | φ4 | 0.07         |
| 202-006-20240-001 | M24 x 3.0P   | 60 | φ4 | 0.18         |
| 202-006-3A640-000 | 1" - 8UNC    | 60 | φ4 | 0.20         |

# NUT ADAPTERS FOR EXCHANGEABLE TORQUE WRENCH

螺帽轉接頭 [扭力扳手用]



| MODEL NO.      | TYPE   | d <sub>1</sub> | WEIGHT (KGS) |
|----------------|--|----------------|--------------|
| 5284-0180-00   | ER11 W - TDQ / SKS6 W - TDQ                  | 18             | 0.24         |
| 5284-0300-00   | ER16 W - TDQ / SKS10 W - TDQ                 | 30             | 0.28         |
| 5284-0340-00   | ER20 W - TDQ / SKS13W - TDQ                  | 34             | 0.32         |
| 5284-0420-00   | ER25 W - TDQ                                 | 42             | 0.35         |
| 5284-0500-00   | ER32 W - TDQ                                 | 50             | 0.40         |
| 5284-0161-00   | PTER11, PRO-E11M                             | 16             | 0.42         |
| 5284-019.51-00 | SK306, UT11, SKX6-CO                         | 19.5           | 0.24         |
| 5284-027.51-00 | SK310  | 27.5           | 0.25         |
| 5284-0301-00   | ER16, SKS10, PNER16, UT16, SKX10-CO, PRO-E16 | 30             | 0.25         |
| 5284-0331-00   | SK313  | 33             | 0.25         |
| 5284-0341-00   | ER20, SK313                                  | 34             | 0.33         |
| 5284-0351-00   | UT20, PTER25, PRO-E20                        | 35             | 0.40         |
| 5284-0401-00   | SKS16, PNER25, SK316, SKX16-CO               | 40             | 0.40         |
| 5284-0421-00   | ER25 W-RDQ, UT25, PRO-E25                    | 42             | 0.40         |
| 5284-0481-00   | SKS20, UT32, SKX20-CO                        | 48             | 0.40         |
| 5284-0501-00   | ER32, PNER32, PRO-E32                        | 50             | 0.42         |
| 5284-0551-00   | SKS25 W-RDQ, SKX25-CO                        | 55             | 0.42         |
| 5284-0631-00   | PNER40, PRO32                                | 63             | 0.58         |



No using adjustable spanner!



No using ER spanner with steel tube!



No using adjustable spanner with steel tube!

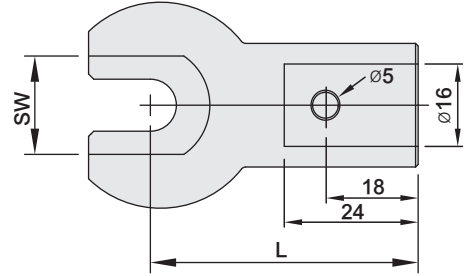
## Features:

- ▶ Used with spigot interchangeable digital torque wrench [P.W-67].
- ▶ Set the torque according to recommended torque value to maintain the best cutting performance.



# TORQUE WRENCH ADAPTOR (FOR PULL STUD)

拉頭轉接頭 [扭力扳手用]



| MODEL NO.    | TYPE        | SW    | L  | APPLICABLE PULL STUD             |   | RECOMMENDED TIGHTENING TORQUE |                  | WEIGHT (KGS) |
|--------------|-------------|-------|----|----------------------------------|---|-------------------------------|------------------|--------------|
| 5281-541-301 | PSTW - 30B  | 13    | 50 | BT30<br>SBT30                    | 45° , 60° , 90°   | 19 ~ 24 N-m                   | 14 ~ 18 ft/lbs   | 0.22         |
| 5281-541-304 | PSTW - 30D  | 14    | 50 | DAT30                            | A, B  | 19 ~ 24 N-m                   | 43 ~ 57 ft/lbs   | 0.23         |
| 5281-541-401 | PSTW - 40B  | 19    | 50 | BT40<br>SBT40<br>CAT40<br>SCAT40 | 45° , 60° , 90° , MAS- I<br>MAS- II , MAS-III<br>Coolant- I , Coolant - II<br>Coolant - III | 58 ~ 78 N-m                   | 43 ~ 57 ft/lbs   | 0.23         |
| 5281-541-402 | PSTW - 40BM | 19    | 50 | BT40                             | MAZAK   | 58 ~ 78 N-m                   | 43 ~ 57 ft/lbs   | 0.2          |
| 5281-541-403 | PSTW - 40C  | 19.05 | 50 | CAT40                            | ANSI  | 58 ~ 78 N-m                   | 43 ~ 57 ft/lbs   | 0.19         |
| 5281-541-404 | PSTW - 40D  | 19    | 50 | DAT40<br>SDAT40                  | A, B  | 58 ~ 78 N-m                   | 43 ~ 57 ft/lbs   | 0.22         |
| 5281-541-405 | PSTW - 40DB | 18    | 50 | DAT40<br>SDAT40                  | B(ISO7388/2)  | 58 ~ 78 N-m                   | 43 ~ 57 ft/lbs   | 0.21         |
| 5281-541-501 | PSTW - 50B  | 30    | 57 | BT50<br>SBT50<br>CAT50<br>SCAT50 | 45° , 60° , 90°<br>MAS- I , MAS- II<br>MAS-III, Coolant- I<br>Coolant - II , Coolant - III  | 196 ~ 245 N-m                 | 144 ~ 180 ft/lbs | 0.3          |
| 5281-541-502 | PSTW - 50BM | 30    | 57 | BT50                             | MAZAK   | 196 ~ 245 N-m                 | 144 ~ 180 ft/lbs | 0.27         |
| 5281-541-503 | PSTW - 50C  | 31.75 | 57 | CAT50                            | ANSI  | 196 ~ 245 N-m                 | 144 ~ 180 ft/lbs | 0.26         |
| 5281-541-504 | PSTW - 50D  | 30    | 57 | DAT50<br>SDAT50                  | A, B  | 196 ~ 245 N-m                 | 144 ~ 180 ft/lbs | 0.29         |



No using adjustable spanner!



No using ER spanner with steel tube!



No using adjustable spanner with steel tube!

## Features:

- ▶ Used with spigot interchangeable digital torque wrench [P.67].
- ▶ Set the torque according to recommended torque value to maintain the best cutting performance.



# SPIGOT INTERCHANGEABLE DIGITAL TORQUE WRENCH

## 數顯 LCD 扭力扳手



### Two-color handle

| MODEL NO.   | TYPE     | LENGTH | RANGE        |                   | WEIGHT (KGS) |
|-------------|----------|--------|--------------|-------------------|--------------|
| 408-006-000 | DG - 135 | 365    | 10 - 135 N-m | 7.4 - 99.6 ft/lbs | 0.80         |
| 408-006-002 | DG - 340 | 769    | 34 - 340 N-m | 25 - 250.9 ft/lbs | 1.40         |



### Steel handle

| MODEL NO.   | TYPE     | LENGTH | RANGE        |                   | WEIGHT (KGS) |
|-------------|----------|--------|--------------|-------------------|--------------|
| 408-006-003 | DG - 252 | 373    | 10 - 135 N-m | 7.4 - 99.6 ft/lbs | 0.80         |
| 408-006-004 | DG - 253 | 548    | 20 - 200 N-m | 14.8 - 147 ft/lbs | 1.05         |
| 408-006-005 | DG - 254 | 748    | 34 - 340 N-m | 25 - 250.9 ft/lbs | 1.35         |



### Two-color handle

| MODEL NO.   | TYPE     | LENGTH | RANGE        |                   | WEIGHT (KGS) |
|-------------|----------|--------|--------------|-------------------|--------------|
| 408-006-006 | DG - 264 | 373    | 10 - 135 N-m | 7.4 - 99.6 ft/lbs | 0.85         |
| 408-006-007 | DG - 265 | 548    | 20 - 200 N-m | 14.8 - 147 ft/lbs | 1.10         |
| 408-006-008 | DG - 266 | 748    | 34 - 340 N-m | 25 - 250.9 ft/lbs | 1.40         |



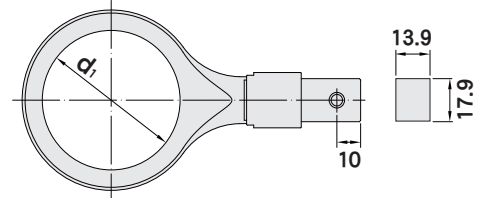
### Steel handle

| MODEL NO.   | TYPE     | LENGTH | RANGE        |                   | WEIGHT (KGS) |
|-------------|----------|--------|--------------|-------------------|--------------|
| 408-006-009 | DG - 271 | 373    | 10 - 135 N-m | 7.4 - 99.6 ft/lbs | 0.65         |
| 408-006-010 | DG - 272 | 548    | 20 - 200 N-m | 14.8 - 147 ft/lbs | 0.90         |
| 408-006-011 | DG - 273 | 748    | 34 - 340 N-m | 25 - 250.9 ft/lbs | 1.20         |



# NUT ADAPTERS FOR EXCHANGEABLE TORQUE WRENCH

螺帽轉接頭 - 方型 [扭力扳手用]



| MODEL NO.      | TYPE   | d <sub>1</sub> | WEIGHT (KGS) |
|----------------|--|----------------|--------------|
| 5284-027.51-01 | SK310  | 27.5           | 0.26         |
| 5284-0301-01   | ER16, SKS10, PNER16, UT16, SKX10-CO, PRO-E16 | 30             | 0.26         |
| 5284-0331-01   | SK313  | 33             | 0.26         |
| 5284-0341-01   | ER20, SKS13, SK313                           | 34             | 0.34         |
| 5284-0351-01   | PTER25, UT20, PRO-E20                        | 35             | 0.41         |
| 5284-0401-01   | PNER25, SKS16, SK316, SKX16-CO               | 40             | 0.41         |
| 5284-0421-01   | ER25, UT25, PRO-E25                          | 42             | 0.41         |
| 5284-0481-01   | SKS20, UT32, SKX20-CO                        | 48             | 0.41         |
| 5284-0501-01   | ER32, PNER32, PRO-E32                        | 50             | 0.43         |
| 5284-0551-01   | SKS25, SKX25-CO                              | 55             | 0.43         |



No using adjustable spanner!



No using ER spanner with steel tube!



No using adjustable spanner with steel tube!

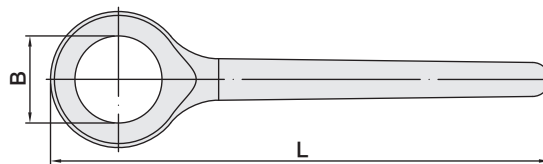
**Features:**

- ▶ Used with spigot interchangeable digital torque wrench.
- ▶ Set the torque according to recommended torque value to maintain the best cutting performance.



# BEARING SPANNER

## 軸承扳手



| MODEL NO.      | TYPE   | NUT DIA | L   | B    | WEIGHT (KGS) |
|----------------|--|---------|-----|------|--------------|
| 5285-0180-00   | ER11 W-RDQ / SKS6 W-RDQ                        | 18      | 120 | 18   | 0.33         |
| 5285-0300-00   | ER16 W-RDQ / SKS10 W-RDQ                       | 30      | 170 | 30   | 0.43         |
| 5285-0340-00   | ER20 W-RDQ / SKS13 W-RDQ                       | 34      | 172 | 34   | 0.43         |
| 5285-0420-00   | ER25 W-RDQ                                     | 42      | 175 | 42   | 0.47         |
| 5285-0500-00   | ER32 W-RDQ                                     | 50      | 180 | 50   | 0.50         |
| 5285-0121-00   | PTER8, SP-ER8M                                 | 12      | 100 | 12   | 0.09         |
| 5285-0161-00   | PTER11, PRO-E11M                               | 16      | 195 | 16   | 0.38         |
| 5285-0181-00   | SKS6, ER11                                     | 18      | 195 | 18   | 0.38         |
| 5285-019.51-00 | SK306, SKX6-CO                                 | 19.5    | 195 | 19.5 | 0.39         |
| 5285-027.51-00 | SK310  | 27.5    | 195 | 27.5 | 0.40         |
| 5285-0301-00   | ER16, SKS10, PNER16, UT16<br>SKX10-CO, PRO-E16 | 30      | 195 | 30   | 0.40         |
| 5285-0331-00   | SK313  | 33      | 195 | 33   | 0.40         |
| 5285-0341-00   | ER20, SKS13                                    | 34      | 235 | 34   | 0.45         |
| 5285-0351-00   | UT20, PTER25, PRO-E20                          | 35      | 235 | 35   | 0.64         |
| 5285-0401-00   | SKS16, PNER25, SK316, SKX16-CO                 | 40      | 235 | 40   | 0.64         |
| 5285-0421-00   | ER25, UT25, PRO-E25                            | 42      | 235 | 42   | 0.67         |
| 5285-0481-00   | SKS20, UT32, SKX20-CO                          | 48      | 235 | 48   | 0.69         |
| 5285-0501-00   | ER32, PNER32, PRO-E32                          | 50      | 235 | 50   | 0.69         |
| 5285-0551-00   | SKS25 W-RDQ, SKX25-CO                          | 55      | 235 | 55   | 0.91         |
| 5285-0631-00   | PNER40, PRO32                                  | 63      | 250 | 63   | 0.70         |
| 5285-0581-00   | PRO25  | 58      | 250 | 58   | 0.70         |
| ◆5285-0711-00  | MLD32  | LD71    | 270 | 71   | 1.24         |

### Features:

- ▶ Used for all non wind resistance nuts.
- ▶ ◆ MLD32 bearing spanners need to be used with specially made MLD32 nuts.



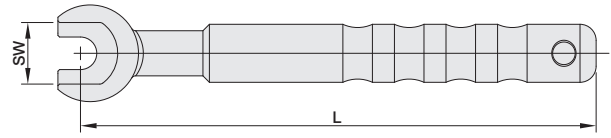
No using ER spanner with steel tube!

No using adjustable spanner with steel tube!



# SPANNER FOR PULL STUD

拉頭扳手

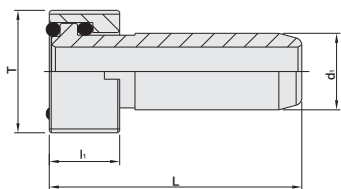


| MODEL NO.    | TYPE     | SW    | L   | APPLICABLE PULL STUD         |   | WEIGHT (KGS) |
|--------------|----------|-------|-----|------------------------------|---|--------------|
| 5287-540-301 | PSW-30B  | 13    | 140 | BT30, SBT30                  | 45°, 60°, 90°   | 0.23         |
| 5287-540-304 | PSW-30D  | 14    | 140 | DAT30                        | A, B  | 0.22         |
| 5287-540-401 | PSW-40B  | 19    | 160 | BT40, SBT40<br>CAT40, SCAT40 | 45°, 60°, 90°, MAS-I, MAS-II,<br>MAS-III, Coolant-I,<br>Coolant - II, Coolant -III  | 0.31         |
| 5287-540-402 | PSW-40BM | 19    | 157 | BT40                         | MAZAK   | 0.29         |
| 5287-540-403 | PSW-40C  | 19.05 | 160 | CAT40                        | ANSI  | 0.3          |
| 5287-540-404 | PSW-40D  | 19    | 160 | DAT40, SDAT40                | A, B  | 0.3          |
| 5287-540-405 | PSW-40DB | 18    | 160 | DAT40, SDAT40                | B(ISO7388/2)  | 0.3          |
| 5287-540-501 | PSW-50B  | 30    | 200 | BT50, SBT50<br>CAT50, SCAT50 | 45°, 60°, 90°, MAS-I,<br>MAS- II, MAS-III, Coolant-I,<br>Coolant - II, Coolant -III | 0.75         |
| 5287-540-502 | PSW-50BM | 30    | 200 | BT50                         | MAZAK   | 0.72         |
| 5287-540-503 | PSW-50C  | 31.75 | 200 | CAT50                        | ANSI  | 0.72         |
| 5287-540-504 | PSW-50D  | 30    | 200 | DAT50, SDAT50                | A, B  | 0.74         |

# COOLANT SUPPLY UNIT & KEY

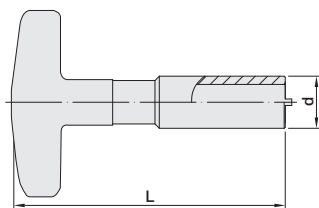
## HSK 給水管 / HSK COOLANT SUPPLY UNIT

(DIN 69895)



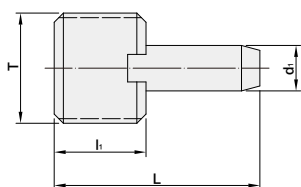
| MODEL NO. | TYPE         | L    | li   | d <sub>1</sub> | T          | WEIGHT (KGS) |
|-----------|--------------|------|------|----------------|------------|--------------|
| 5316-2032 | HSK32A - CP  | 26   | 5.5  | 6              | M10 x 1.0P | 0.01         |
| 5316-2040 | HSK40A - CP  | 29.3 | 7.5  | 8              | M12 x 1.0P | 0.01         |
| 5316-2050 | HSK50A - CP  | 33   | 9.5  | 10             | M16 x 1.0P | 0.02         |
| 5316-2063 | HSK63A - CP  | 36.6 | 11.5 | 12             | M18 x 1.0P | 0.02         |
| 5316-2080 | HSK80A - CP  | 40   | 13.5 | 14             | M20 x 1.5P | 0.04         |
| 5316-2100 | HSK100A - CP | 44   | 15.5 | 16             | M24 x 1.5P | 0.06         |

## HSK 給水管扳手 / KEY FOR HSK COOLANT SUPPLY UNIT



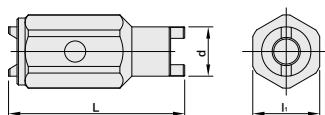
| MODEL NO.    | TYPE          | L   | d       | WEIGHT (KGS) |
|--------------|---------------|-----|---------|--------------|
| 5280-070-032 | HSK32A - CPW  | 90  | Ø10mm   | 0.10         |
| 5280-071-040 | HSK40A - CPW  | 90  | Ø13.5mm | 0.12         |
| 5280-072-050 | HSK50A - CPW  | 95  | Ø15.5mm | 0.14         |
| 5280-073-063 | HSK63A - CPW  | 100 | Ø17.5mm | 0.16         |
| 5280-074-080 | HSK80A - CPW  | 110 | Ø19.5mm | 0.12         |
| 5280-075-100 | HSK100A - CPW | 125 | Ø23.5mm | 0.32         |

## PSC 給水管 / PSC COOLANT SUPPLY UNIT



| MODEL NO. | TYPE  | L     | li | d <sub>1</sub> | T          | WEIGHT (KGS) |
|-----------|-------|-------|----|----------------|------------|--------------|
| 5316-1032 | PSC32 | 22.4  | 10 | 4.95           | M12 x 1.5P | 0.07         |
| 5316-1040 | PSC40 | 25.8  | 12 | 5.95           | M14 x 1.5P | 0.01         |
| 5316-1050 | PSC50 | 28.35 | 14 | 7              | M16 x 1.5P | 0.015        |
| 5316-1063 | PSC63 | 31    | 15 | 8              | M20 x 2.0P | 0.027        |
| 5316-1080 | PSC80 | 31.3  | 15 | 10             | M20 x 2.0P | 0.026        |

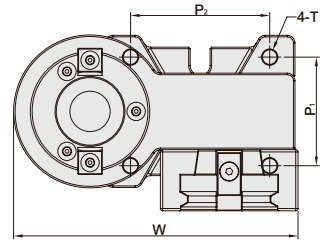
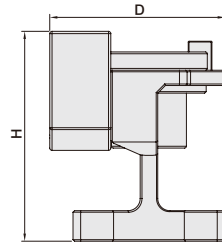
## PSC 給水管扳手 / KEY FOR PSC COOLANT SUPPLY UNIT



| MODEL NO.    | TYPE  | L  | li | d    | WEIGHT (KGS) |
|--------------|-------|----|----|------|--------------|
| 5280-501-080 | PSC80 | 60 | 29 | 17.5 | 0.22         |
| 5280-501-063 | PSC63 | 60 | 25 | 17.5 | 0.16         |
| 5280-501-050 | PSC50 | 50 | 19 | 14   | 0.071        |
| 5280-501-040 | PSC40 | 45 | 17 | 12   | 0.051        |
| 5280-501-032 | PSC32 | 40 | 14 | 10   | 0.03         |

# ASSEMBLY DEVICE

鎖刀座



TW PAT NO. M595557

**TWO - WAY TYPE 立臥式**

| MODEL NO.    | TYPE            | COMPATIBLE TOOLING | D     | H     | W   | P <sub>1</sub> | P <sub>2</sub> | T   | WEIGHT (KGS) |
|--------------|-----------------|--------------------|-------|-------|-----|----------------|----------------|-----|--------------|
| 5300-020-010 | AD - BT30 - HV  | BT / SBT30         | 110   | 137.5 | 186 | 71             | 91             | M8  | 4.36         |
| 5300-020-011 | AD - BT40 - HV  | BT / SBT40         | 115   | 137.5 | 186 | 71             | 91             | M8  | 4.38         |
| 5300-020-012 | AD - BT50 - HV  | BT / SBT50         | 152.5 | 195.5 | 242 | 112            | 116            | M10 | 10.90        |
| 5300-020-031 | AD - CAT40 - HV | CAT / SCAT40       | 115   | 137.5 | 186 | 71             | 91             | M8  | 4.39         |
| 5300-020-032 | AD - CAT50 - HV | CAT / SCAT50       | 152.5 | 195.5 | 242 | 112            | 116            | M10 | 10.96        |
| 5300-020-073 | AD - HSK63 - HV | HSK63A             | 143.5 | 198.5 | 242 | 112            | 116            | M10 | 12.6         |

## Quick Positioning Design for HSK-A Assembly Device

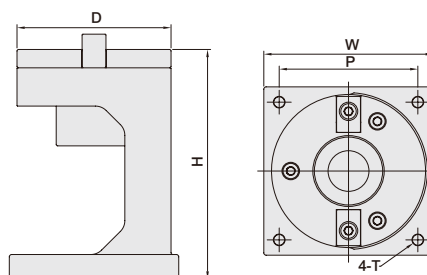
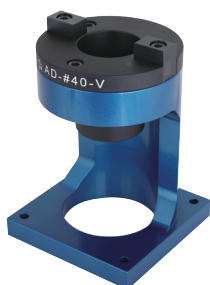


- ▶ Because the sizes of two drive slots of HSK-A tool holders are unequal, this design facilitates end users to be able to quickly place HSK-A tool holders on HSK-A assembly device in a correct way.



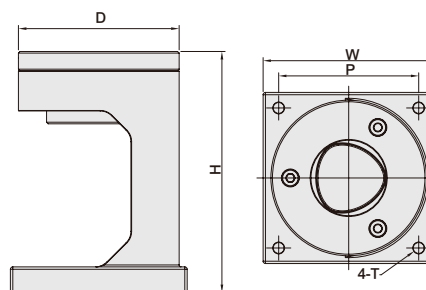
# ASSEMBLY DEVICE

## 鎖刀座



### VERTICAL TYPE 立式

| MODEL NO.    | TYPE         | COMPATIBLE TOOLING | D   | H   | W   | P   | T  | WEIGHT (KGS) |
|--------------|--------------|--------------------|-----|-----|-----|-----|----|--------------|
| 5300-021-010 | AD - #30 - V | #30                | 100 | 150 | 110 | 90  | M6 | 3.51         |
| 5300-021-011 | AD - #40 - V | #40                | 100 | 150 | 110 | 90  | M6 | 2.85         |
| 5300-021-012 | AD - #50 - V | #50                | 115 | 190 | 160 | 130 | M8 | 8.21         |



### VERTICAL TYPE 立式

| MODEL NO.    | TYPE          | COMPATIBLE TOOLING | D   | H   | W   | P   | T  | WEIGHT (KGS) |
|--------------|---------------|--------------------|-----|-----|-----|-----|----|--------------|
| 5300-021-073 | AD - 63A - V  | HSK63A             | 100 | 150 | 110 | 90  | M6 | 3.29         |
| 5300-021-075 | AD - 100A - V | HSK100A            | 115 | 190 | 160 | 130 | M8 | 7.53         |
| 5300-021-143 | AD - C63 - V  | PSC63              | 100 | 150 | 110 | 90  | M6 | 3.32         |

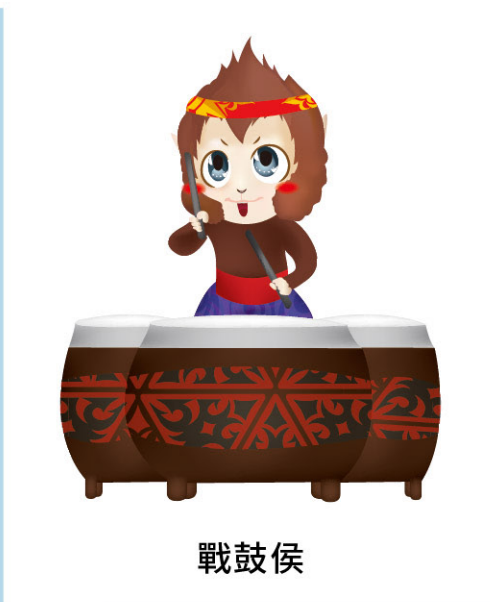


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