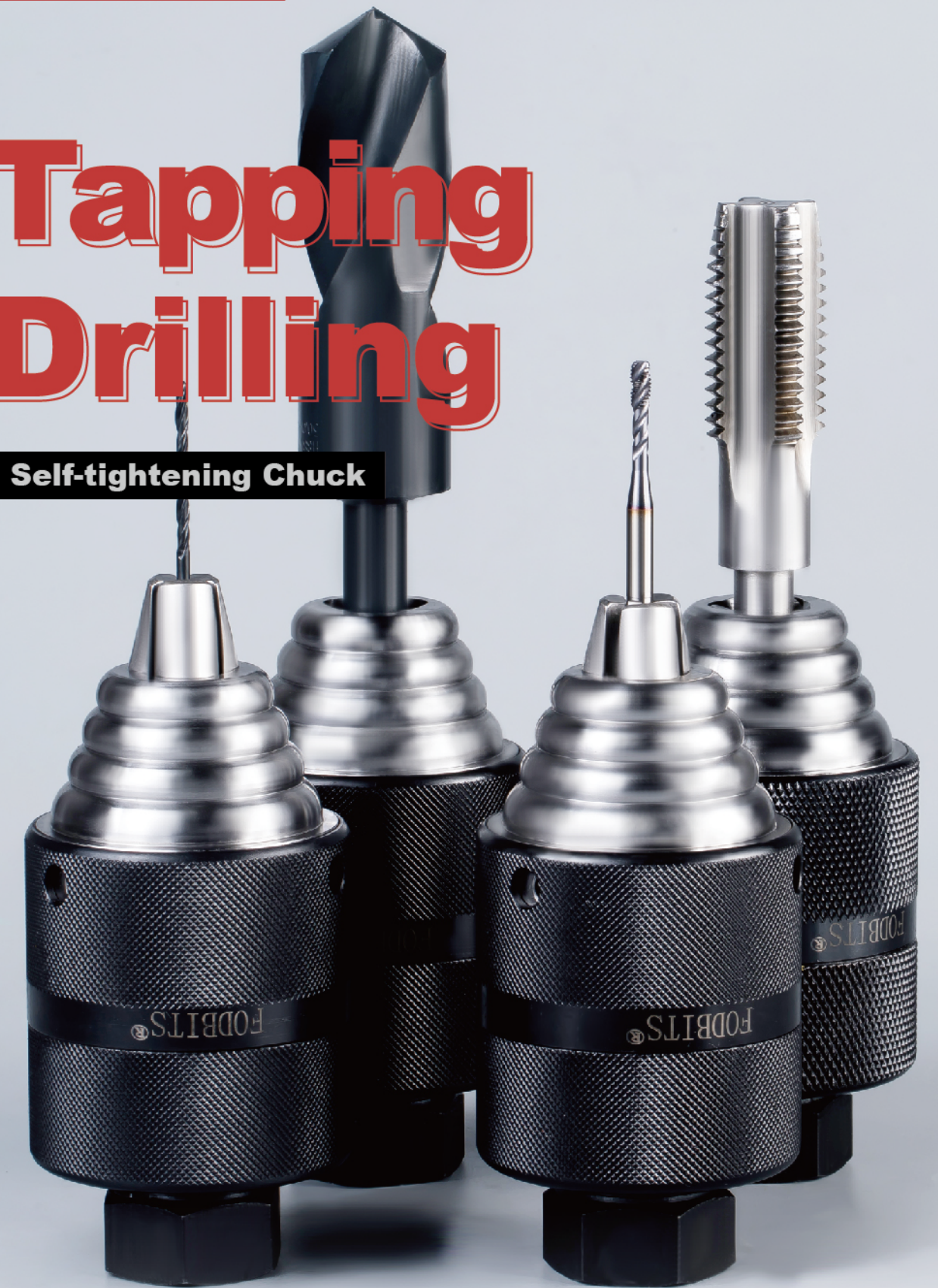


**FODBITS®**

Tapping and Drilling  
Self-tightening Chuck

# Tapping Drilling

Self-tightening Chuck



- ◆ No Slippage, Tapping range M3-M24, Drilling range  $\phi$ 1-30mm
- ◆ Loosen and Clamp by hand, no special tools are required.
- ◆ Super long working life, High precision

- ◆ Patented
- ◆ Replacement Products

**FODBITS®**

FODBIT PRECISION TECHNOLOGY CO.,LTD

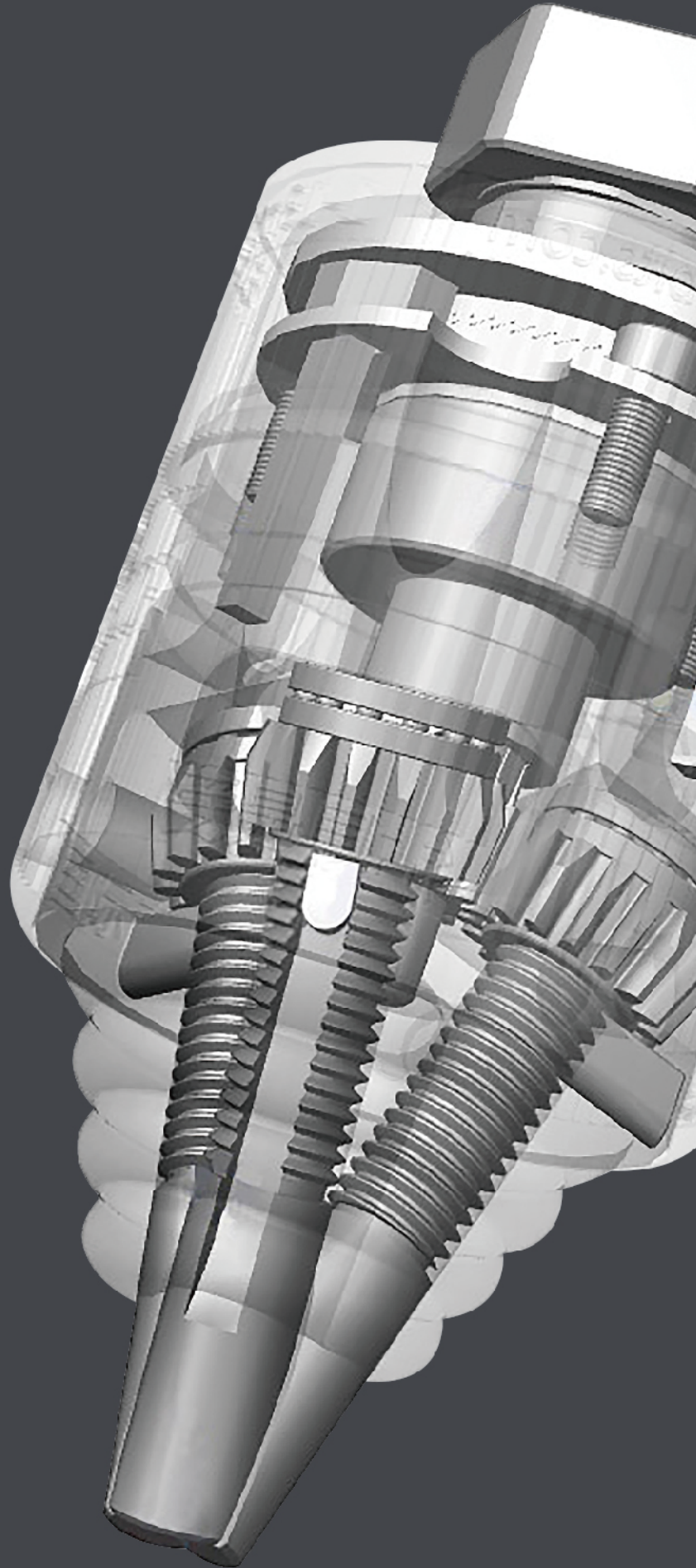
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# PRODUCT SERIES

## PRODUCT SERIES

### 1 Tapping and drilling chuck series

|   |       |    |
|---|-------|----|
| Gear structure tapping and drilling self-tightening chuck series  | ----- | 04 |
| Screw structure tapping and drilling self-tightening chuck series | ----- | 13 |

### 2 Drill chuck arbors

|  |       |    |
|--|-------|----|
| Overload protection adjustable torque drill chuck arbors | ----- | 20 |
| Drill chuck arbors with separation nut                   | ----- | 25 |

### 3 High speed steel twist drill with straight shank

29

### 4 Common machine thread tap

29



# Product Features



- ◆ **Greater clamping force up to 247Nm, no slippage during work.**  
FODBITS® tapping and drilling self-tightening chuck is one kind of drill chuck with the largest clamping force in the world. In the working process, with the increase of cutting resistance, the greater the clamping force, the tighter the tool clamp, and the maximum clamping force can reach 100N.m. There will be no slippage in the working process.
- ◆ **Tapping large threads and drilling large holes.**  
The processing range of the drill chuck is widened.  
The chuck with clamping 1-13mm drilling tools: Tapping range M1-M20, Drilling range 1-26mm (0.039"-1.024")  
Drill chucks for clamping 1-16mm (0.039"-0.630") drilling tools: Tapping range M1-M24, Drilling range 1-30mm (0.039"-1.181")
- ◆ **Loosen and clamp by hand , no special tools are required.**  
The tapping and drilling self-tightening chuck can quickly clamp the drill tool by hand before working; loosen the drill tool soon after work. No special tools are needed.  
The clamping and loosening time of the drill tool is only a quarter of that of the keyed drill chuck. It increases the adequate working time of the operator and improves labor productivity. Easily clamp and loosen the drill tool by hand, reducing workers' work intensity.
- ◆ **Super long working life.**  
Selection material, Special process treatment, long working life. Under the same working conditions, The working life is 5-20 times longer than the existing keyed drill chuck.
- ◆ **High precision and stability.**  
High precision: The radial run-out of high-precision products is less than 0.05mm (0.002") ; The radial run-out of ordinary precision products is less than 0.16mm (0.0063") .Because of the clamping force of the FODBITS® tapping and drilling chuck, The drill tool will not slip concerning the chuck during operation, So the cutting edge of the three claws will not be damaged, So the precision of the product can be maintained well and longer.
- ◆ **High security.**  
The safety factor is higher than the traditional keyed drill chuck and keyless self-tightening drill chuck. The product is designed with a mechanism to prevent backsliding. It can prevent the sudden stop of the machine tool and the accidental loss of the drill tool when reversing. Safety accident occurs.
- ◆ **Low cost and high performance.**  
With strong clamping force and no slipping, the cutting edge of the clamping jaw is not easy to damage, which prolongs the service life of the chuck. The precision of the product is well maintained, which reduces the scrap rate in the drilling process. Manual, quick clamping and loosening reduces drilling tools' installation and disassembly time and improves labor productivity, so the cost of using them is lower.
- ◆ **Exclusive production advantage.**  
More than 20 patents, international and domestic, have been applied for and obtained, filling gaps in the drill chuck history of the world. With the advantages of patent and exclusive production, the quality and after-sales service are reliable.
- ◆ **Upgrading products.**  
Regarding processing and operating performance, FODBITS® tapping and drilling self-tightening chuck has more advantages than traditional keyed drill chuck and flat keyless self-tightening drill chuck, which expands its scope of use. The drilling range is extended to 30mm, and the tapping range is extended to M24. The scope of application is more extensive and can be applied to CNC machining centers, CNC lathes, CNC boring and milling centers, rocker drills, bench drills, tapping machines, milling machines, ordinary lathes, combined machine tools, etc.
- ◆ **Flexible disconnecting device.**  
The thrust nut is convenient for removing the chuck and can effectively protect the back cone hole of the chuck. Prolong the service life of the chuck.
- ◆ **Operator's favorite.**  
Simple operations and powerful functions make the operator's work easier.





## Gear structure tapping and drilling self-tightening chuck

Exclusive  
Production

Replacement  
Products

World  
patent

FODBITS®

### Gear structure tapping and drilling self-tightening chuck

01 Greater clamping force,  
No slippage.

---

02 Tap big threads,  
Drill big holes.

---

03 Loosen and clamp by hand,  
Safety and time saving.

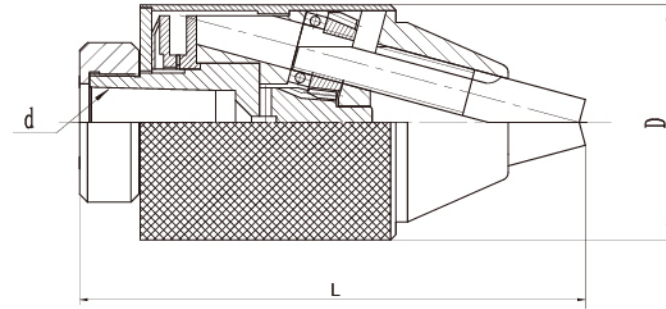
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04 Super Long working life,  
Cost-effective.

---



# Taper mount tapping and drilling chuck



- ☆ Loosen and clamping by hand, easy and fast operation saving clamping time
- ☆ Gear structure on strong clamping force. no slippage while working
- ☆ Ratchet selflocking drilling and tapping can be used

- ☆ Easy to remove the drill chuck of the thrust nut and effectively maintain the precision of the inner conical hole
- ☆ Used for bench drill, radial arm drilling machine, drilling and tapping machine, lathes, milling machine, magnetic drills; etc

| No. | Model      | Mount | Clamping range |             | Drilling range |             | Tapping range |         | D  |       | L     |       |
|-----|------------|-------|----------------|-------------|----------------|-------------|---------------|---------|----|-------|-------|-------|
|     |            |       | mm             | in          | mm             | in          | mm            | in      | mm | in    | mm    | in    |
| 012 | J0116H-B18 | B18   | 1-16           | 0.039-0.63  | 1-30           | 0.039-1.181 | M3-M24        | 2/6-7/8 | 69 | 2.717 | 139.5 | 5.492 |
| 013 | J0116H-JT6 | JT6   | 1-16           | 0.039-0.63  | 1-30           | 0.039-1.181 | M3-M24        | 2/6-7/8 | 69 | 2.717 | 139.5 | 5.492 |
| 014 | J0120-B22  | B22   | 5-20           | 0.197-0.787 | 1-30           | 0.039-1.181 | M6-M24        | 1/4-7/8 | 69 | 2.717 | 139.5 | 5.492 |
| 015 | J0120-JT3  | JT3   | 5-20           | 0.197-0.787 | 1-30           | 0.039-1.181 | M6-M24        | 1/4-7/8 | 69 | 2.717 | 139.5 | 5.492 |

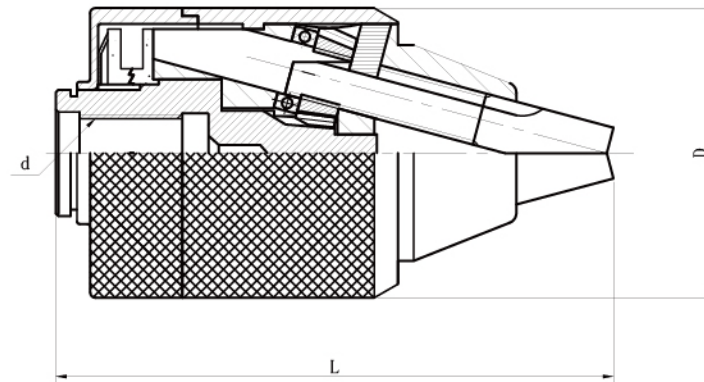
## Magnetic Drill Special Chuck

| No. | Model       | Mount | Clamping range |             | Drilling range |             | Tapping range |           | D  |       | L   |       |
|-----|-------------|-------|----------------|-------------|----------------|-------------|---------------|-----------|----|-------|-----|-------|
|     |             |       | mm             | in          | mm             | in          | mm            | in        | mm | in    | mm  | in    |
| 001 | J0113M-B12  | B12   | 1-13           | 0.039-0.512 | 1-16           | 0.039-0.630 | M3-M14        | 2/16-9/16 | 50 | 1.968 | 110 | 4.331 |
| 002 | J0113M-B16  | B16   | 1-13           | 0.039-0.512 | 1-16           | 0.039-0.630 | M3-M14        | 2/16-9/16 | 50 | 1.968 | 110 | 4.331 |
| 003 | J0113M-JT2  | JT2   | 1-13           | 0.039-0.512 | 1-16           | 0.039-0.630 | M3-M14        | 2/16-9/16 | 50 | 1.968 | 110 | 4.331 |
| 004 | J0113M-JT33 | JT33  | 1-13           | 0.039-0.512 | 1-16           | 0.039-0.630 | M3-M14        | 2/16-9/16 | 50 | 1.968 | 110 | 4.331 |
| 005 | J0113-B16   | B16   | 1-13           | 0.039-0.512 | 1-20           | 0.039-0.787 | M3-M16        | 2/16-5/8  | 55 | 2.165 | 118 | 4.646 |
| 006 | J0113-JT33  | JT33  | 1-13           | 0.039-0.512 | 1-20           | 0.039-0.787 | M3-M16        | 2/16-5/8  | 55 | 2.165 | 118 | 4.646 |
| 007 | J0113-JT6   | JT6   | 1-13           | 0.039-0.512 | 1-20           | 0.039-0.787 | M3-M16        | 2/16-5/8  | 55 | 2.165 | 118 | 4.646 |
| 008 | J0116-B16   | B16   | 1-16           | 0.039-0.63  | 1-24           | 0.039-0.945 | M3-M20        | 2/16-3/4  | 63 | 2.48  | 130 | 5.118 |
| 009 | J0116-B18   | B18   | 1-16           | 0.039-0.63  | 1-24           | 0.039-0.945 | M3-M20        | 2/16-3/4  | 63 | 2.48  | 130 | 5.118 |
| 010 | J0116-JT33  | JT33  | 1-16           | 0.039-0.63  | 1-24           | 0.039-0.945 | M3-M20        | 2/16-3/4  | 63 | 2.48  | 130 | 5.118 |
| 011 | J0116-JT6   | JT6   | 1-16           | 0.039-0.63  | 1-24           | 0.039-0.945 | M3-M20        | 2/16-3/4  | 63 | 2.48  | 130 | 5.118 |

| No. | Model         | Mount | Clamping range |             | Drilling range |             | Tapping range |         | D  |       | L   |       |
|-----|---------------|-------|----------------|-------------|----------------|-------------|---------------|---------|----|-------|-----|-------|
|     |               |       | mm             | in          | mm             | in          | mm            | in      | mm | in    | mm  | in    |
| 016 | J0113-CZ-B16  | B16   | 1-13           | 0.039-0.512 | 1-20           | 0.039-0.787 | M3-M16        | 2/6-5/8 | 53 | 2.087 | 104 | 4.094 |
| 017 | J0113-CZ-JT33 | JT33  | 1-13           | 0.039-0.512 | 1-20           | 0.039-0.787 | M3-M16        | 2/6-5/8 | 53 | 2.087 | 104 | 4.094 |
| 018 | J0116-CZ-B18  | B18   | 1-16           | 0.039-0.63  | 1-24           | 0.039-0.945 | M3-M20        | 2/6-3/4 | 63 | 2.48  | 115 | 4.528 |
| 019 | J0116-CZ-JT6  | JT6   | 1-16           | 0.039-0.63  | 1-24           | 0.039-0.945 | M3-M20        | 2/6-3/4 | 63 | 2.48  | 115 | 4.528 |



## Thread mount self - tightening chuck

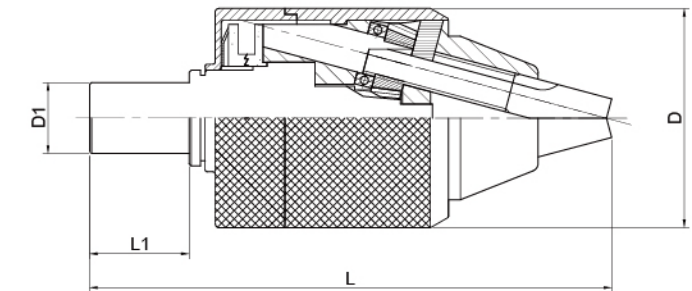


- ☆ Loosen and clamping by hand, easy and fast operation saving clamping time
- ☆ Gear structure on strong clamping force. no slippage while working
- ☆ Ratchet selflocking drilling and tapping can be used

- ☆ Easy to remove the drill chuck of the thrust nut and effectively maintain the precision of the inner conical hole
- ☆ Used for bench drill, radial arm drilling machine, drilling and tapping machine, lathes, milling machine, magnetic drills; etc

| No. | Model | Mount     | Clamping range |            | Drilling range |            | Tapping range |         | D    |       | L  |       |
|-----|-------|-----------|----------------|------------|----------------|------------|---------------|---------|------|-------|----|-------|
|     |       |           | mm             | in         | mm             | in         | mm            | in      | mm   | in    | mm | in    |
| 020 | J0313 | 1/2-20UNF | 1-13           | 0.039-0.63 | 1-16           | 0.039-0.63 | M3-M12        | 2/6-1/2 | 43.5 | 1.713 | 84 | 3.307 |
|     |       | M12X1.25  | 1-13           | 0.039-0.63 | 1-16           | 0.039-0.63 | M3-M12        | 2/6-1/2 | 43.5 | 1.713 | 84 | 3.307 |

## Tapping and drilling chuck with integrated shank - Straight shank



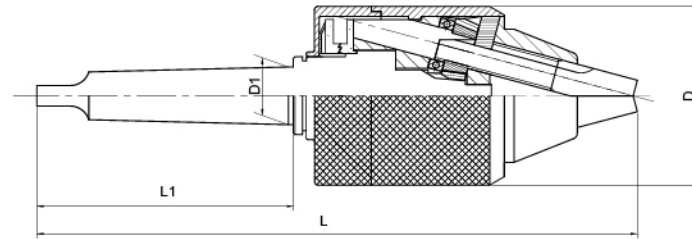
- ☆ One-piece design, taper shank and drill chuck are integrated, compact structure, eliminating accumulated tolerance, high precision
- ☆ Loosen and clamp by hand, easy and fast operating, saving clamping time

- ☆ Gear structure, strong clamping force, no slippage while working
- ☆ Ratchet self-locking, drilling and tapping can be used

| No. | Model      | Clamping range |             | Drilling range |             | Tapping range |           | D  |       | D1 |       | L1 |       | L   |       |
|-----|------------|----------------|-------------|----------------|-------------|---------------|-----------|----|-------|----|-------|----|-------|-----|-------|
|     |            | mm             | in          | mm             | in          | mm            | in        | mm | in    | mm | in    | mm | in    | mm  | in    |
| 021 | J0113M-C20 | 1-13           | 0.039-0.512 | 1-16           | 0.039-0.630 | M3-M14        | 2/16-9/16 | 50 | 1.968 | 20 | 0.787 | 60 | 2.362 | 159 | 6.26  |
| 022 | J0113-C20  | 1-13           | 0.039-0.512 | 1-20           | 0.039-0.787 | M3-M16        | 2/16-5/8  | 55 | 2.165 | 20 | 0.787 | 60 | 2.362 | 166 | 6.535 |
| 023 | J0116-C20  | 1-16           | 0.039-0.63  | 1-24           | 0.039-0.945 | M3-M20        | 2/16-3/4  | 63 | 2.48  | 20 | 0.787 | 60 | 2.362 | 180 | 7.887 |
| 024 | J0116-C25  | 1-16           | 0.039-0.63  | 1-24           | 0.039-0.945 | M3-M20        | 2/16-3/4  | 63 | 2.48  | 25 | 0.984 | 80 | 3.15  | 200 | 7.874 |



## Tapping and drilling chuck with integrated shank - Morse taper with tang



- ☆ One-piece design, taper shank and drill chuck are integrated, compact structure, eliminating accumulated tolerance, high precision
- ☆ Loosen and clamp by hand, easy and fast operating, saving clamping time

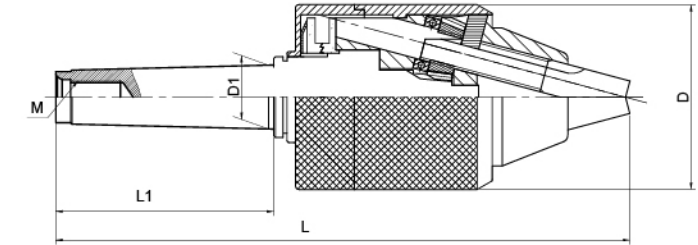
- ☆ Ratchet self-locking, drilling and tapping can be used
- ☆ Gear structure, strong clamping force, no slippage while working
- ☆ Used for bench drill, radial arm drilling machine, drilling and tapping machine, lathes, milling machine, magnetic drills; etc

| No. | Model      | Clamping range |             | Drilling range |             | Tapping range |           | D  |       | D1     |       | L1   |       | L     |       |
|-----|------------|----------------|-------------|----------------|-------------|---------------|-----------|----|-------|--------|-------|------|-------|-------|-------|
|     |            | mm             | in          | mm             | in          | mm            | in        | mm | in    | mm     | in    | mm   | in    | mm    | in    |
| 025 | J0113M-MT2 | 1-13           | 0.039-0.512 | 1-16           | 0.039-0.630 | M3-M14        | 2/16-9/16 | 50 | 1.968 | 17.78  | 0.7   | 78.5 | 3.09  | 178   | 7.008 |
| 026 | J0113-MT2  | 1-13           | 0.039-0.512 | 1-20           | 0.039-0.787 | M3-M16        | 2/16-5/8  | 55 | 2.165 | 17.78  | 0.7   | 78.5 | 3.09  | 184.5 | 7.264 |
| 027 | J0116-MT2  | 1-16           | 0.039-0.63  | 1-24           | 0.039-0.945 | M3-M20        | 2/16-3/4  | 63 | 2.48  | 17.78  | 0.7   | 78.5 | 3.09  | 198.5 | 7.815 |
| 028 | J0116-MT3  | 1-16           | 0.039-0.63  | 1-24           | 0.039-0.945 | M3-M20        | 2/16-3/4  | 63 | 2.48  | 23.825 | 0.938 | 98   | 3.858 | 218   | 8.583 |
| 029 | J0116H-MT2 | 1-16           | 0.039-0.63  | 1-30           | 0.039-1.181 | M3-M24        | 2/6-7/8   | 69 | 2.717 | 17.78  | 0.7   | 78.5 | 3.09  | 208   | 8.189 |
| 030 | J0116H-MT3 | 1-16           | 0.039-0.63  | 1-30           | 0.039-1.181 | M3-M24        | 2/6-7/8   | 69 | 2.717 | 23.825 | 0.938 | 98   | 3.858 | 228   | 8.976 |
| 031 | J0120-MT2  | 5-20           | 0.197-0.787 | 1-30           | 0.039-1.181 | M6-M24        | 1/4-7/8   | 69 | 2.717 | 17.78  | 0.7   | 78.5 | 3.09  | 208   | 8.189 |
| 032 | J0120-MT3  | 5-20           | 0.197-0.787 | 1-30           | 0.039-1.181 | M6-M24        | 1/4-7/8   | 69 | 2.717 | 23.825 | 0.938 | 78.5 | 3.858 | 228   | 8.976 |

### Magnetic drill special chuck

| No. | Model        | Clamping range |             | Drilling range |             | Tapping range |         | D  |       | D1     |       | L1   |       | L   |       |
|-----|--------------|----------------|-------------|----------------|-------------|---------------|---------|----|-------|--------|-------|------|-------|-----|-------|
|     |              | mm             | in          | mm             | in          | mm            | in      | mm | in    | mm     | in    | mm   | in    | mm  | in    |
| 033 | J0113-CZ-MT2 | 1-13           | 0.039-0.512 | 1-20           | 0.039-0.787 | M3-M16        | 2/6-5/8 | 53 | 2.087 | 17.78  | 0.7   | 78.5 | 3.09  | 173 | 4.094 |
| 034 | J0113-CZ-MT3 | 1-13           | 0.039-0.512 | 1-20           | 0.039-0.787 | M3-M16        | 2/6-5/8 | 53 | 2.087 | 23.825 | 0.938 | 98   | 3.858 | 193 | 4.094 |
| 035 | J0116-CZ-MT2 | 1-16           | 0.039-0.63  | 1-24           | 0.039-0.945 | M3-M20        | 2/6-3/4 | 63 | 2.48  | 17.78  | 0.7   | 78.5 | 3.09  | 184 | 7.244 |
| 036 | J0116-CZ-MT3 | 1-16           | 0.039-0.63  | 1-24           | 0.039-0.945 | M3-M20        | 2/6-3/4 | 63 | 2.48  | 23.825 | 0.938 | 98   | 3.858 | 204 | 8.031 |

## Tapping and drilling chuck with integrated shank - Morse taper with draw bar



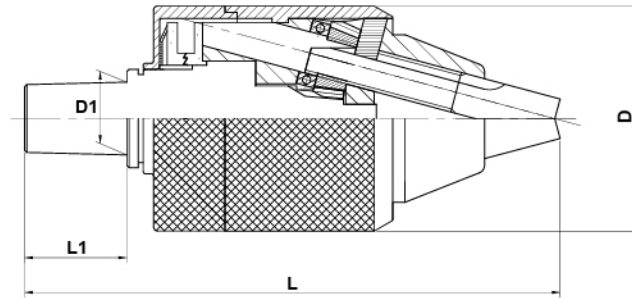
- ☆ One-piece design, taper shank and drill chuck are integrated, compact structure, eliminating accumulated tolerance, high precision
- ☆ Loosen and clamp by hand, easy and fast operating, saving clamping time

- ☆ Gear structure, strong clamping force, no slippage while working
- ☆ Ratchet self-locking, drilling and tapping can be used
- ☆ Used for bench drill, radial arm drilling machine, drilling and tapping machine, lathes, milling machine, etc

| No. | Model       | Clamping range |             | Drilling range |             | Tapping range |           | D  |       | D1     |       | L1   |       | L     |       | M   |
|-----|-------------|----------------|-------------|----------------|-------------|---------------|-----------|----|-------|--------|-------|------|-------|-------|-------|-----|
|     |             | mm             | in          | mm             | in          | mm            | in        | mm | in    | mm     | in    | mm   | in    |       |       |     |
| 037 | J0113M-MT2W | 1-13           | 0.039-0.512 | 1-16           | 0.039-0.63  | M3-M14        | 2/16-9/16 | 50 | 1.968 | 17.78  | 0.7   | 78.5 | 3.091 | 178   | 7.008 | M10 |
| 038 | J0113-MT2W  | 1-13           | 0.039-0.512 | 1-20           | 0.039-0.787 | M3-M16        | 2/16-5/8  | 55 | 2.165 | 17.78  | 0.7   | 78.5 | 3.091 | 184.5 | 7.264 | M10 |
| 039 | J0116-MT2W  | 1-16           | 0.039-0.63  | 1-24           | 0.039-0.945 | M3-M20        | 2/16-3/4  | 63 | 2.48  | 17.78  | 0.7   | 78.5 | 3.091 | 198.5 | 7.815 | M10 |
| 040 | J0116-MT3W  | 1-16           | 0.039-0.63  | 1-24           | 0.039-0.945 | M3-M20        | 2/16-3/4  | 63 | 2.48  | 23.825 | 0.938 | 98   | 3.858 | 218   | 8.583 | M12 |



## Tapping and drilling chuck with integrated shank - Morse short taper



☆ One-piece design, taper shank and drill chuck are integrated, compact structure, eliminating accumulated tolerance, high precision

☆ Loosen and clamp by hand, easy and fast operating, saving clamping time

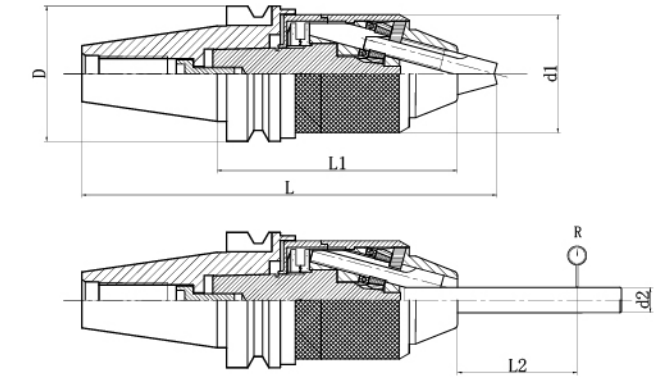
☆ Combined BT, CAT and DAT tool handles, used for CNC machine

☆ Gear structure, strong clamping force, no slippage while working

☆ Ratchet self-locking, drilling and tapping can be used

| No. | Model       | Clamping range |             | D  |       | D1     |       | L1   |       | L     |       |
|-----|-------------|----------------|-------------|----|-------|--------|-------|------|-------|-------|-------|
|     |             | mm             | in          | mm | in    | mm     | in    | mm   | in    | mm    | in    |
| 041 | J0113M-MT2D | 1-13           | 0.039-0.512 | 50 | 1.968 | 17.78  | 0.7   | 25   | 0.984 | 124   | 4.882 |
| 042 | J0113-MT2D  | 1-13           | 0.039-0.512 | 55 | 2.165 | 17.78  | 0.7   | 25   | 0.984 | 131   | 5.157 |
| 043 | J0113-MT3D  | 1-13           | 0.039-0.512 | 55 | 2.165 | 23.825 | 0.938 | 26.5 | 1.043 | 132.5 | 5.217 |
| 044 | J0116-MT2D  | 1-16           | 0.039-0.63  | 63 | 2.48  | 17.78  | 0.7   | 25   | 0.984 | 145   | 5.709 |
| 045 | J0116-MT3D  | 1-16           | 0.039-0.63  | 63 | 2.48  | 23.825 | 0.938 | 26.5 | 1.043 | 146.5 | 5.768 |

## Super precision short tapping and drilling chuck with integrated shank



☆ Drill chuck and tool handle are integrated, drill chuck not fall off under heavy cutting

☆ Loosen and clamp by hand, easy operating, saving clamping time

☆ Strong clamping force, self-locking device, drilling and tapping

### MAS403-BT(JIS B 6339)

| No. | Model          | L1  |       | L     |       | L2 |       | D   |       | d1 |       | d2 |       | R    |       |
|-----|----------------|-----|-------|-------|-------|----|-------|-----|-------|----|-------|----|-------|------|-------|
|     |                | mm  | in    | mm    | in    | mm | in    | mm  | in    | mm | in    | mm | in    | mm   | in    |
| 046 | BT40-APU13-110 | 110 | 4.331 | 190.4 | 7.496 | 75 | 2.953 | 63  | 2.48  | 55 | 2.165 | 13 | 0.512 | 0.05 | 0.002 |
| 047 | BT50-APU13-120 | 120 | 4.724 | 237   | 9.331 | 75 | 2.953 | 100 | 3.937 | 55 | 2.165 | 13 | 0.512 | 0.05 | 0.002 |
| 048 | BT50-APU16-125 | 125 | 4.921 | 242   | 9.528 | 80 | 3.15  | 100 | 3.937 | 63 | 2.48  | 16 | 0.63  | 0.05 | 0.002 |

### DIN-69871-A

| No. | Model           | L1  |       | L      |       | L2 |       | D    |       | d1 |       | d2 |       | R    |       |
|-----|-----------------|-----|-------|--------|-------|----|-------|------|-------|----|-------|----|-------|------|-------|
|     |                 | mm  | in    | mm     | in    | mm | in    | mm   | in    | mm | in    | mm | in    | mm   | in    |
| 049 | DAT40-APU13-110 | 110 | 4.331 | 193.4  | 7.614 | 75 | 2.953 | 63.5 | 2.5   | 55 | 2.165 | 13 | 0.512 | 0.05 | 0.002 |
| 050 | DAT50-APU13-110 | 110 | 4.331 | 226.75 | 8.927 | 75 | 2.953 | 97.5 | 3.839 | 55 | 2.165 | 13 | 0.512 | 0.05 | 0.002 |
| 051 | DAT50-APU16-120 | 120 | 4.724 | 236.75 | 9.321 | 80 | 3.15  | 97.5 | 3.839 | 63 | 2.48  | 16 | 0.63  | 0.05 | 0.002 |

### CAT-ANSI B5.50

| No. | Model           | L1  |       | L      |       | L2 |       | D     |       | d1 |       | d2 |       | R    |       |
|-----|-----------------|-----|-------|--------|-------|----|-------|-------|-------|----|-------|----|-------|------|-------|
|     |                 | mm  | in    | mm     | in    | mm | in    | mm    | in    | mm | in    | mm | in    | mm   | in    |
| 052 | CAT40-APU13-110 | 110 | 4.331 | 193.3  | 7.608 | 75 | 2.953 | 63.5  | 2.5   | 55 | 2.165 | 13 | 0.512 | 0.05 | 0.002 |
| 053 | CAT50-APU13-110 | 110 | 4.331 | 226.75 | 8.297 | 75 | 2.953 | 98.45 | 3.876 | 55 | 2.165 | 13 | 0.512 | 0.05 | 0.002 |
| 054 | CAT50-APU16-120 | 120 | 4.724 | 236.75 | 9.321 | 80 | 3.15  | 98.45 | 3.876 | 63 | 2.48  | 16 | 0.63  | 0.05 | 0.002 |



## Features of screw structure products.

- 01 Tapping and drilling are stable and reliable. Can drill holes of  $\phi 1 - \phi 24\text{mm}$  ; Tapping M3-M20 threads.

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- 02 The maximum clamping force is 87 Nm.

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- 03 High precision, less than 0.05mm (0.002")

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- 04 The positive and the reverse clamping force are the same.

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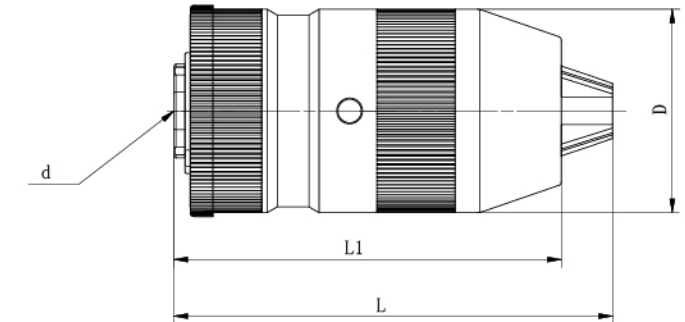
- 05 Long working life, selected parts, special treatment.

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- 06 Add safety lock device to prevent sudden stop or counter-clockwise rotation of the equipment, the chuck is accidentally released.

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## Taper mount tapping and drilling chuck



☆ High precision, the maximum radial runout of M-level products is not more than 0.05mm detected with a detection rod.

☆ Powerful clamping force, which increases with the increase of cutting resistance

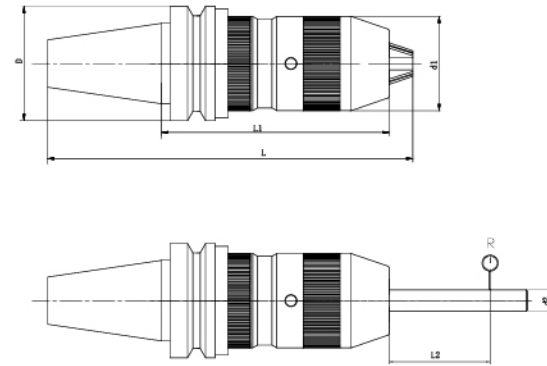
☆ Be able to tap and drill, and keep the same cutting torque at forward and reverse rotation

☆ Wide range of applications, to be used in drilling and tapping equipment such as bench drills, radial arm drilling machine, milling machines, lathes, CNC machine tools, etc

| No. | Model         | Mount | Clamping range |              | L1  |      | L   |      | D  |      |
|-----|---------------|-------|----------------|--------------|-----|------|-----|------|----|------|
|     |               |       | mm             | in           | mm  | in   | mm  | in   | mm | in   |
| 055 | J0113-BZ-B16  | B16   | 1-13           | 0.0393-0.512 | 96  | 3.78 | 108 | 4.25 | 50 | 1.97 |
| 056 | J0113-BZ-JT33 | JT33  | 1-13           | 0.0393-0.512 | 96  | 3.78 | 108 | 4.25 | 50 | 1.97 |
| 057 | J0113-BZ-JT6  | JT6   | 1-13           | 0.0393-0.512 | 96  | 3.78 | 108 | 4.25 | 50 | 1.97 |
| 058 | J0113-BZ-JT2  | JT2   | 1-13           | 0.0393-0.512 | 96  | 3.78 | 108 | 4.25 | 50 | 1.97 |
| 059 | J0116-BZ-JT6  | JT6   | 1-16           | 0.0393-0.630 | 102 | 4.01 | 114 | 4.48 | 57 | 2.24 |
| 060 | J0116-BZ-JT3  | JT3   | 1-16           | 0.0393-0.630 | 108 | 4.25 | 120 | 4.72 | 57 | 2.24 |
| 061 | J0116-BZ-JT33 | JT33  | 1-16           | 0.0393-0.630 | 102 | 4.01 | 114 | 4.48 | 57 | 2.24 |
| 062 | J0116-BZ-B16  | B16   | 1-16           | 0.0393-0.630 | 102 | 4.01 | 114 | 4.48 | 57 | 2.24 |
| 063 | J0116-BZ-B18  | B18   | 1-16           | 0.0393-0.630 | 108 | 4.25 | 120 | 4.72 | 57 | 2.24 |



# APU super precision short tapping and drilling chuck with integrated shank



- ☆ It can tap and drill, and the cutting torque is the same at turning forward and reverse
- ☆ It is suitable for CNC machine tools such as machining centers and CNC milling

- ☆ The drill chuck is combined with the tool holder as a whole, and the drill chuck will not fall off in the case of heavy cutting

## MAS403-BT(JIS B 6339)

| No. | Model            | L1  |      | L2 |      | L   |       | d1 |      | D   |      | d2 |      | R(≤) |
|-----|------------------|-----|------|----|------|-----|-------|----|------|-----|------|----|------|------|
|     |                  | mm  | in   | mm | in   | mm  | in    | mm | in   | mm  | in   | mm | in   |      |
| 064 | BT40-APU13ZT-126 | 126 | 4.96 | 75 | 2.95 | 202 | 7.95  | 50 | 1.97 | 63  | 2.48 | 13 | 0.51 | 0.05 |
| 065 | BT40-APU16ZT-132 | 132 | 5.20 | 80 | 3.15 | 208 | 8.19  | 57 | 2.24 | 63  | 2.48 | 16 | 0.63 | 0.05 |
| 066 | BT50-APU13ZT-126 | 126 | 4.96 | 75 | 2.95 | 249 | 9.80  | 50 | 1.97 | 100 | 3.94 | 13 | 0.51 | 0.05 |
| 067 | BT50-APU16ZT-132 | 132 | 5.20 | 80 | 3.15 | 255 | 10.04 | 57 | 2.24 | 100 | 3.94 | 16 | 0.63 | 0.05 |

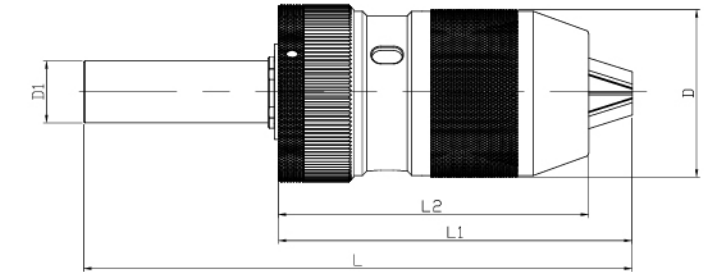
## CAT-ANSI B5.50

| No. | Model             | L1  |      | L2 |      | L   |      | d1 |      | D     |      | d2 |      | R(≤) |
|-----|-------------------|-----|------|----|------|-----|------|----|------|-------|------|----|------|------|
|     |                   | mm  | in   | mm | in   | mm  | in   | mm | in   | mm    | in   | mm | in   |      |
| 068 | CAT40-APU13ZT-115 | 115 | 4.53 | 75 | 2.95 | 195 | 7.68 | 50 | 1.97 | 63.5  | 2.5  | 13 | 0.51 | 0.05 |
| 069 | CAT40-APU16ZT-121 | 121 | 4.76 | 80 | 3.15 | 211 | 8.31 | 57 | 2.24 | 63.5  | 2.5  | 16 | 0.63 | 0.05 |
| 070 | CAT50-APU13ZT-115 | 115 | 4.53 | 75 | 2.95 | 229 | 9.02 | 50 | 1.97 | 98.42 | 3.87 | 13 | 0.51 | 0.05 |
| 071 | CAT50-APU16ZT-121 | 121 | 4.76 | 80 | 3.15 | 235 | 8.25 | 57 | 2.24 | 98.42 | 3.87 | 16 | 0.63 | 0.05 |

## DIN-69871-A

| No. | Model             | L1  |      | L2 |      | L   |      | d1 |      | D    |      | d2 |      | R(≤) |
|-----|-------------------|-----|------|----|------|-----|------|----|------|------|------|----|------|------|
|     |                   | mm  | in   | mm | in   | mm  | in   | mm | in   | mm   | in   | mm | in   |      |
| 072 | DAT40-APU13ZT-115 | 115 | 4.52 | 75 | 2.95 | 195 | 7.68 | 50 | 1.97 | 63.5 | 2.5  | 13 | 0.51 | 0.05 |
| 073 | DAT40-APU16ZT-121 | 121 | 4.76 | 80 | 3.15 | 211 | 8.31 | 57 | 2.24 | 63.5 | 2.5  | 16 | 0.63 | 0.05 |
| 074 | DAT50-APU13ZT-115 | 115 | 4.52 | 75 | 2.95 | 229 | 9.02 | 50 | 1.97 | 97.5 | 3.84 | 13 | 0.51 | 0.05 |
| 075 | DAT50-APU16ZT-121 | 121 | 4.76 | 80 | 3.15 | 235 | 9.25 | 57 | 2.24 | 97.5 | 3.84 | 16 | 0.63 | 0.05 |

# Tapping and drilling chuck with integrated shank - Straight shank



- ☆ All-in-one design and compact structure, which reduce cumulative error and ensures high product accuracy

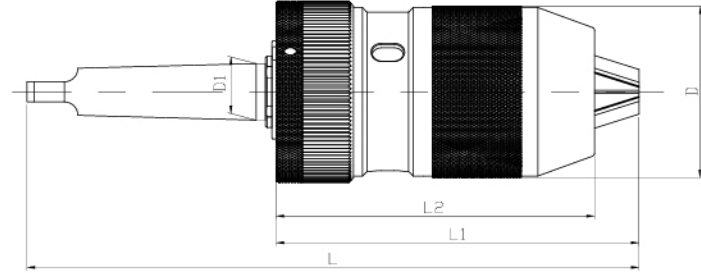
- ☆ Be able to tap and drill, and keep the same cutting torque at forward and reverse rotation

- ☆ Powerful clamping force, which increases with the increase of cutting resistance

| No. | Model        | Mount | Clamping range |              | D  |      | D1 |      | L   |      | L1  |      | L2 |      |
|-----|--------------|-------|----------------|--------------|----|------|----|------|-----|------|-----|------|----|------|
|     |              |       | mm             | in           | mm | in   | mm | in   | mm  | in   | mm  | in   | mm | in   |
| 076 | J0113-BZ-C20 | C20   | 1-13           | 0.0393-0.512 | 50 | 1.97 | 20 | 0.78 | 168 | 6.61 | 105 | 4.13 | 93 | 3.66 |
| 077 | J0116-BZ-C20 | C20   | 1-16           | 0.0393-0.630 | 57 | 2.24 | 20 | 0.78 | 174 | 6.85 | 111 | 4.37 | 99 | 3.90 |
| 078 | J0116-BZ-C25 | C25   | 1-16           | 0.0393-0.630 | 57 | 2.24 | 25 | 0.98 | 194 | 7.64 | 111 | 4.37 | 99 | 3.90 |



## Tapping and drilling chuck with integrated shank - Morse taper with tang



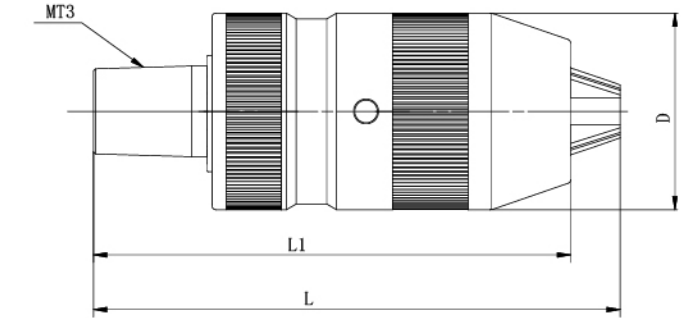
☆ All-in-one design and compact structure, which reduce cumulative error and ensures high product accuracy

☆ Powerful clamping force, which increases with the increase of cutting resistance

☆ Be able to tap and drill, and keep the same cutting torque at forward and reverse rotation

| No. | Model        | Mount | Clamping range |              | D  |      | D1    |      | L   |      | L1  |      | L2 |      |
|-----|--------------|-------|----------------|--------------|----|------|-------|------|-----|------|-----|------|----|------|
|     |              |       | mm             | in           | mm | in   | mm    | in   | mm  | in   | mm  | in   | mm | in   |
| 079 | J0113-BZ-MT2 | MT2   | 1-13           | 0.0393-0.512 | 50 | 1.97 | 17.78 | 0.7  | 186 | 7.32 | 105 | 4.13 | 93 | 3.66 |
| 080 | J0116-BZ-MT2 | MT2   | 1-16           | 0.0393-0.630 | 57 | 2.24 | 17.78 | 0.7  | 192 | 7.56 | 111 | 4.37 | 99 | 3.90 |
| 081 | J0116-BZ-MT3 | MT3   | 1-16           | 0.0393-0.630 | 57 | 2.24 | 23.83 | 0.94 | 210 | 8.27 | 111 | 4.37 | 99 | 3.90 |

## Tapping and drilling chuck with integrated shank - Morse short taper



☆ All-in-one design and compact structure, which reduce cumulative error and ensures high product accuracy

☆ Powerful clamping force, which increases with the increase of cutting resistance

☆ Be able to tap and drill, and keep the same cutting torque at forward and reverse rotation

☆ Have BT, BBT, DAT, CAT and other tool holders, being suitable for CNC machining centers, CNC milling and other CNC machine tools

| No. | Model         | Mount | Clamping range |              | L1  |      | L   |      | D  |      |
|-----|---------------|-------|----------------|--------------|-----|------|-----|------|----|------|
|     |               |       | mm             | in           | mm  | in   | mm  | in   | mm | in   |
| 082 | J0113-BZ-MT3D | MT3   | 1-13           | 0.0393-0.512 | 123 | 4.84 | 135 | 5.31 | 50 | 1.97 |
| 083 | J0116-BZ-MT3D | MT3   | 1-16           | 0.0393-0.630 | 128 | 5.03 | 140 | 5.51 | 57 | 2.24 |





## Drill Rod Series

Exclusive  
Production

Replacement  
Products

World  
patent

FODBITS®

### Adjustable torque drill arbors

- 01 Torque is adjustable

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- 02 Overload protection function can effectively protect tapping without damaging the drill tool

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- 03 Selection material, long working life

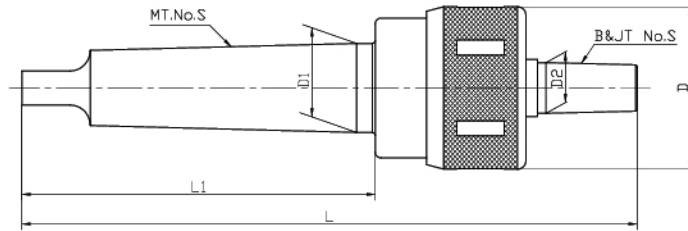
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- 04 Fine workmanship, high precision products

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# Overload protection adjustable torque drill chuck arbors



☆ Torque is adjustable

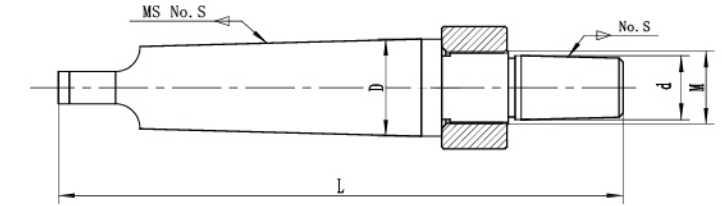
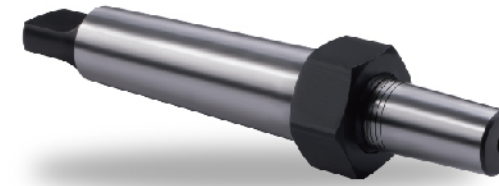
☆ overload protection; Effectively protect drilling and tapping from damaging drilling tools

☆ Selection material, quenching process, durable

☆ Fine workmanship, high precision products

| No. | Model    | MT.No.S | B&JT NO.S |    | D  |      | D1     |      | D2     |      | L   |      | L1  |      |
|-----|----------|---------|-----------|----|----|------|--------|------|--------|------|-----|------|-----|------|
|     |          |         | mm        | in | mm | in   | mm     | in   | mm     | in   | mm  | in   | mm  | in   |
| 084 | MT3-B16  | MT3     | B16       |    | 53 | 2.09 | 23.825 | 0.94 | 15.733 | 0.62 | 182 | 7.16 | 98  | 3.86 |
| 085 | MT3-B18  | MT3     | B18       |    | 53 | 2.09 | 23.825 | 0.94 | 17.78  | 0.7  | 188 | 7.40 | 98  | 3.86 |
| 086 | MT3-JT33 | MT3     | JT33      |    | 53 | 2.09 | 23.825 | 0.94 | 15.85  | 0.62 | 183 | 7.20 | 98  | 3.86 |
| 087 | MT3-JT6  | MT3     | JT6       |    | 53 | 2.09 | 23.825 | 0.94 | 17.17  | 0.68 | 183 | 7.20 | 98  | 3.86 |
| 088 | MT4-B16  | MT4     | B16       |    | 57 | 2.24 | 31.267 | 1.23 | 15.733 | 0.62 | 210 | 8.27 | 123 | 4.84 |
| 089 | MT4-B18  | MT4     | B18       |    | 57 | 2.24 | 31.267 | 1.23 | 17.78  | 0.7  | 216 | 8.5  | 123 | 4.84 |
| 090 | MT4-JT33 | MT4     | JT33      |    | 57 | 2.24 | 31.267 | 1.23 | 15.85  | 0.62 | 211 | 8.31 | 123 | 4.84 |
| 091 | MT4-JT6  | MT4     | JT6       |    | 57 | 2.24 | 31.267 | 1.23 | 17.17  | 0.68 | 211 | 8.31 | 123 | 4.84 |
| 092 | MT5-B16  | MT5     | B16       |    | 57 | 2.24 | 44.399 | 1.75 | 15.733 | 0.62 | 234 | 9.21 | 156 | 6.14 |
| 093 | MT5-B18  | MT5     | B18       |    | 57 | 2.24 | 44.399 | 1.75 | 17.78  | 0.7  | 240 | 9.45 | 156 | 6.14 |
| 094 | MT5-JT33 | MT5     | JT33      |    | 57 | 2.24 | 44.399 | 1.75 | 15.85  | 0.62 | 235 | 9.25 | 156 | 6.14 |
| 095 | MT5-JT6  | MT5     | JT6       |    | 57 | 2.24 | 44.399 | 1.75 | 17.17  | 0.68 | 235 | 9.25 | 156 | 6.14 |

# Flat tail morse taper drill chuck arbors with separation nut



☆ Processed with high quality and strength steel, stable performance and high wear resistance after heat treatment

☆ The shank is connected with the spindle or reducer sleeve of the machine, and the front end is connected with various inner cone drill chucks

☆ The contact area of the shank and the front end is more than 85% by coloring test

☆ Easy to remove the drill chuck of the thrust nut and effectively maintain the precision of the inner conical hole

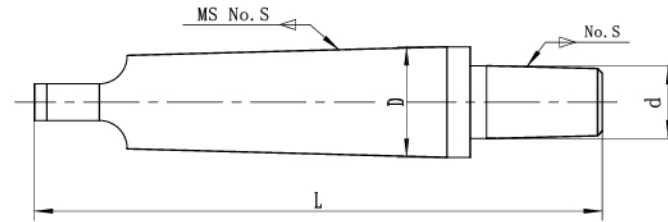
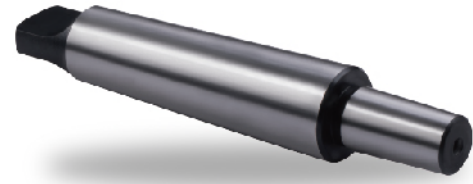
☆ Patent No: ZL 2019 2 16306262

| No  | Model    | D      |       | d      |       | L   |       | M       |
|-----|----------|--------|-------|--------|-------|-----|-------|---------|
|     |          | mm     | in    | mm     | in    | mm  | in    |         |
| 096 | MT0-B6   | 9.045  | 0.356 | 6.35   | 0.250 | 93  | 3.661 | M8X1    |
| 097 | MT0-B10  | 9.045  | 0.356 | 10.094 | 0.397 | 98  | 3.858 | M12X1.5 |
| 098 | MT0-B12  | 9.045  | 0.356 | 12.065 | 0.475 | 102 | 4.016 | M14X1.5 |
| 099 | MT0-B16  | 9.045  | 0.356 | 15.733 | 0.619 | 109 | 4.291 | M18X1.5 |
| 100 | MT0-B18  | 9.045  | 0.356 | 17.78  | 0.700 | 117 | 4.606 | M20X1.5 |
| 101 | MT0-B22  | 9.045  | 0.356 | 21.793 | 0.858 | 126 | 4.961 | M24X1.5 |
| 102 | MT0-B24  | 9.045  | 0.356 | 23.825 | 0.938 | 136 | 5.354 | M26X1.5 |
| 103 | MT0-JT0  | 9.045  | 0.356 | 6.35   | 0.250 | 91  | 3.583 | M8X1    |
| 104 | MT0-JT3  | 9.045  | 0.356 | 20.599 | 0.811 | 111 | 4.370 | M24X1.5 |
| 105 | MT0-JT33 | 9.045  | 0.356 | 15.85  | 0.624 | 106 | 4.173 | M18X1.5 |
| 106 | MT1-B10  | 12.065 | 0.475 | 10.094 | 0.397 | 104 | 4.094 | M12X1.5 |
| 107 | MT1-B12  | 12.065 | 0.475 | 12.065 | 0.475 | 108 | 4.252 | M14X1.5 |
| 108 | MT1-B16  | 12.065 | 0.475 | 15.733 | 0.619 | 115 | 4.528 | M18X1.5 |
| 109 | MT1-B18  | 12.065 | 0.475 | 17.78  | 0.700 | 123 | 4.843 | M20X1.5 |
| 110 | MT1-B22  | 12.065 | 0.475 | 21.793 | 0.858 | 132 | 5.197 | M24X1.5 |
| 111 | MT1-B24  | 12.065 | 0.475 | 23.825 | 0.938 | 142 | 5.591 | M26X1.5 |
| 112 | MT1-JT0  | 12.065 | 0.475 | 6.35   | 0.250 | 97  | 3.819 | M8X1    |
| 113 | MT1-JT1  | 12.065 | 0.475 | 9.754  | 0.384 | 103 | 4.055 | M12X1.5 |
| 114 | MT1-JT2  | 12.065 | 0.475 | 14.199 | 0.559 | 108 | 4.252 | M16X1.5 |
| 115 | MT1-JT3  | 12.065 | 0.475 | 20.599 | 0.811 | 117 | 4.606 | M24X1.5 |
| 116 | MT1-JT6  | 12.065 | 0.475 | 17.17  | 0.676 | 112 | 4.409 | M20X1.5 |
| 117 | MT1-JT33 | 12.065 | 0.475 | 15.85  | 0.624 | 112 | 4.409 | M18X1.5 |
| 118 | MT2-B10  | 17.78  | 0.700 | 10.094 | 0.397 | 119 | 4.685 | M12X1.5 |
| 119 | MT2-B12  | 17.78  | 0.700 | 12.065 | 0.475 | 123 | 4.843 | M14X1.5 |
| 120 | MT2-B16  | 17.78  | 0.700 | 15.733 | 0.619 | 130 | 5.118 | M18X1.5 |
| 121 | MT2-B18  | 17.78  | 0.700 | 17.78  | 0.700 | 138 | 5.433 | M20X1.5 |
| 122 | MT2-B22  | 17.78  | 0.700 | 21.793 | 0.858 | 146 | 5.748 | M24X1.5 |
| 123 | MT2-B24  | 17.78  | 0.700 | 23.825 | 0.938 | 156 | 6.142 | M26X1.5 |
| 124 | MT2-JT0  | 17.78  | 0.700 | 6.35   | 0.250 | 112 | 4.409 | M8X1    |
| 125 | MT2-JT1  | 17.78  | 0.700 | 9.754  | 0.384 | 118 | 4.646 | M12X1.5 |
| 126 | MT2-JT2  | 17.78  | 0.700 | 14.199 | 0.559 | 123 | 4.843 | M16X1.5 |
| 127 | MT2-JT3  | 17.78  | 0.700 | 20.599 | 0.811 | 132 | 5.197 | M24X1.5 |
| 128 | MT2-JT6  | 17.78  | 0.700 | 17.17  | 0.676 | 126 | 4.961 | M20X1.5 |
| 129 | MT2-JT33 | 17.78  | 0.700 | 15.85  | 0.624 | 126 | 4.961 | M18X1.5 |
| 130 | MT3-B10  | 23.825 | 0.938 | 10.094 | 0.397 | 138 | 5.433 | M12X1.5 |
| 131 | MT3-B12  | 23.825 | 0.938 | 12.065 | 0.475 | 142 | 5.591 | M14X1.5 |
| 132 | MT3-B16  | 23.825 | 0.938 | 15.733 | 0.619 | 149 | 5.866 | M18X1.5 |
| 133 | MT3-B18  | 23.825 | 0.938 | 17.78  | 0.700 | 157 | 6.181 | M20X1.5 |
| 134 | MT3-B22  | 23.825 | 0.938 | 21.793 | 0.858 | 165 | 6.496 | M24X1.5 |

| No  | Model    | D      |       | d      |       | L   |        | M       |
|-----|----------|--------|-------|--------|-------|-----|--------|---------|
|     |          | mm     | in    | mm     | in    | mm  | in     |         |
| 135 | MT3-B24  | 23.825 | 0.938 | 23.825 | 0.938 | 175 | 6.890  | M26X1.5 |
| 136 | MT3-JT0  | 23.825 | 0.938 | 6.35   | 0.250 | 131 | 5.157  | M8X1    |
| 137 | MT3-JT1  | 23.825 | 0.938 | 9.754  | 0.384 | 136 | 5.354  | M12X1.5 |
| 138 | MT3-JT2  | 23.825 | 0.938 | 14.199 | 0.559 | 142 | 5.591  | M16X1.5 |
| 139 | MT3-JT3  | 23.825 | 0.938 | 20.599 | 0.811 | 151 | 5.945  | M24X1.5 |
| 140 | MT3-JT6  | 23.825 | 0.938 | 17.17  | 0.676 | 145 | 5.709  | M20X1.5 |
| 141 | MT3-JT33 | 23.825 | 0.938 | 15.85  | 0.624 | 145 | 5.709  | M18X1.5 |
| 142 | MT4-B10  | 31.267 | 1.231 | 10.094 | 0.397 | 163 | 6.417  | M12X1.5 |
| 143 | MT4-B12  | 31.267 | 1.231 | 12.065 | 0.475 | 167 | 6.575  | M14X1.5 |
| 144 | MT4-B16  | 31.267 | 1.231 | 15.733 | 0.619 | 174 | 6.850  | M18X1.5 |
| 145 | MT4-B18  | 31.267 | 1.231 | 17.78  | 0.700 | 182 | 7.165  | M20X1.5 |
| 146 | MT4-B22  | 31.267 | 1.231 | 21.793 | 0.858 | 190 | 7.480  | M24X1.5 |
| 147 | MT4-B24  | 31.267 | 1.231 | 23.825 | 0.938 | 200 | 7.874  | M26X1.5 |
| 148 | MT4-JT0  | 31.267 | 1.231 | 6.35   | 0.250 | 156 | 6.142  | M8X1    |
| 149 | MT4-JT1  | 31.267 | 1.231 | 9.754  | 0.384 | 161 | 6.339  | M12X1.5 |
| 150 | MT4-JT2  | 31.267 | 1.231 | 14.199 | 0.559 | 167 | 6.575  | M16X1.5 |
| 151 | MT4-JT3  | 31.267 | 1.231 | 20.599 | 0.811 | 176 | 6.929  | M24X1.5 |
| 152 | MT4-JT6  | 31.267 | 1.231 | 17.17  | 0.676 | 170 | 6.693  | M20X1.5 |
| 153 | MT4-JT33 | 31.267 | 1.231 | 15.85  | 0.624 | 170 | 6.693  | M18X1.5 |
| 154 | MT5-B10  | 44.399 | 1.748 | 10.094 | 0.397 | 195 | 7.677  | M12X1.5 |
| 155 | MT5-B12  | 44.399 | 1.748 | 12.065 | 0.475 | 199 | 7.835  | M14X1.5 |
| 156 | MT5-B16  | 44.399 | 1.748 | 15.733 | 0.619 | 206 | 8.110  | M18X1.5 |
| 157 | MT5-B18  | 44.399 | 1.748 | 17.78  | 0.700 | 214 | 8.425  | M20X1.5 |
| 158 | MT5-B22  | 44.399 | 1.748 | 21.793 | 0.858 | 222 | 8.740  | M24X1.5 |
| 159 | MT5-B24  | 44.399 | 1.748 | 23.825 | 0.938 | 232 | 9.134  | M26X1.5 |
| 160 | MT5-JT3  | 44.399 | 1.748 | 20.599 | 0.811 | 208 | 8.189  | M24X1.5 |
| 161 | MT5-JT6  | 44.399 | 1.748 | 17.17  | 0.676 | 202 | 7.953  | M20X1.5 |
| 162 | MT5-JT33 | 44.399 | 1.748 | 15.85  | 0.624 | 202 | 7.953  | M18X1.5 |
| 163 | MT6-B16  | 63.348 | 2.494 | 15.733 | 0.619 | 268 | 10.551 | M18X1.5 |
| 164 | MT6-B18  | 63.348 | 2.494 | 17.78  | 0.700 | 276 | 10.866 | M20X1.5 |
| 165 | MT6-B22  | 63.348 | 2.494 | 21.793 | 0.858 | 284 | 11.181 | M24X1.5 |
| 166 | MT6-B24  | 63.348 | 2.494 | 23.825 | 0.938 | 294 | 11.575 | M26X1.5 |
| 167 | MT6-JT3  | 63.348 | 2.494 | 20.599 | 0.811 | 270 | 10.630 | M24X1.5 |
| 168 | MT6-JT6  | 63.348 | 2.494 | 17.17  | 0.676 | 264 | 10.394 | M20X1.5 |
| 169 | MT6-JT33 | 63.348 | 2.494 | 15.85  | 0.624 | 264 | 10.394 | M18X1.5 |



# Morse taper drill chuck arbors with tang form



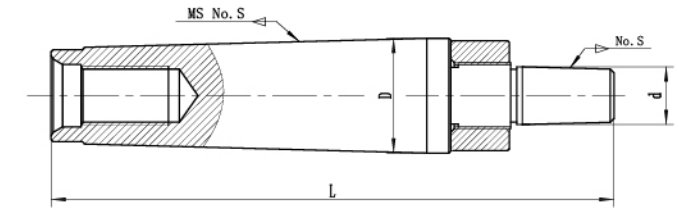
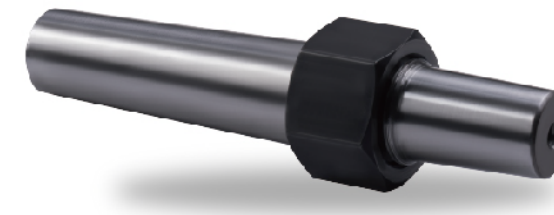
- ☆ Processed with high quality and strength steel, stable performance and high wear resistance after heat treatment
- ☆ The contact area of the shank and the front end is more than 85% by coloring test.

- ☆ The shank is connected with the spindle or reducer sleeve of the machine, and the front end is connected with various inner cone drill chucks
- ☆ Standard: DIN238A

| No. | Model    | D      |        | d      |       | L   |       |
|-----|----------|--------|--------|--------|-------|-----|-------|
|     |          | mm     | in     | mm     | in    | mm  | in    |
| 170 | MT0-B6   | 9.045  | 0.3561 | 6.35   | 0.25  | 75  | 2.953 |
| 171 | MT0-B10  | 9.045  | 0.3561 | 10.094 | 0.397 | 80  | 3.15  |
| 172 | MT0-B12  | 9.045  | 0.3561 | 12.065 | 0.475 | 84  | 3.307 |
| 173 | MT0-B16  | 9.045  | 0.3561 | 15.733 | 0.619 | 91  | 3.583 |
| 174 | MT0-B18  | 9.045  | 0.3561 | 17.78  | 0.7   | 99  | 3.898 |
| 175 | MT0-B22  | 9.045  | 0.3561 | 21.793 | 0.858 | 108 | 4.173 |
| 176 | MT0-B24  | 9.045  | 0.3561 | 23.825 | 0.938 | 118 | 4.646 |
| 177 | MT0-JT0  | 9.045  | 0.3561 | 6.35   | 0.25  | 73  | 2.874 |
| 178 | MT0-JT3  | 9.045  | 0.3561 | 20.599 | 0.811 | 93  | 3.661 |
| 179 | MT0-JT33 | 9.045  | 0.3561 | 15.85  | 0.624 | 88  | 3.465 |
| 180 | MT1-B10  | 12.065 | 0.475  | 10.094 | 0.397 | 86  | 3.386 |
| 181 | MT1-B12  | 12.065 | 0.475  | 12.065 | 0.475 | 90  | 3.543 |
| 182 | MT1-B16  | 12.065 | 0.475  | 15.733 | 0.619 | 97  | 3.819 |
| 183 | MT1-B18  | 12.065 | 0.475  | 17.78  | 0.7   | 105 | 4.134 |
| 184 | MT1-B22  | 12.065 | 0.475  | 21.793 | 0.858 | 114 | 4.488 |
| 185 | MT1-B24  | 12.065 | 0.475  | 23.825 | 0.938 | 124 | 4.882 |
| 188 | MT1-JT0  | 12.065 | 0.475  | 6.35   | 0.25  | 79  | 3.11  |
| 187 | MT1-JT1  | 12.065 | 0.475  | 9.754  | 0.384 | 85  | 3.346 |
| 188 | MT1-JT2  | 12.065 | 0.475  | 14.199 | 0.559 | 90  | 3.543 |
| 189 | MT1-JT3  | 12.065 | 0.475  | 20.599 | 0.811 | 99  | 3.898 |
| 190 | MT1-JT4  | 12.065 | 0.475  | 28.55  | 1.124 | 110 | 4.331 |
| 191 | MT1-JT5  | 12.065 | 0.475  | 35.89  | 1.413 | 116 | 4.567 |
| 192 | MT1-JT6  | 12.065 | 0.475  | 17.17  | 0.676 | 94  | 3.701 |
| 193 | MT1-JT33 | 12.065 | 0.475  | 15.85  | 0.624 | 94  | 3.701 |
| 194 | MT2-B10  | 17.78  | 0.7    | 10.094 | 0.397 | 101 | 3.976 |
| 195 | MT2-B12  | 17.78  | 0.7    | 12.065 | 0.475 | 105 | 4.134 |
| 196 | MT2-B16  | 17.78  | 0.7    | 15.733 | 0.619 | 112 | 4.409 |
| 197 | MT2-B18  | 17.78  | 0.7    | 17.78  | 0.7   | 120 | 4.724 |
| 198 | MT2-B22  | 17.78  | 0.7    | 21.793 | 0.858 | 128 | 5.039 |
| 199 | MT2-B24  | 17.78  | 0.7    | 23.825 | 0.938 | 138 | 5.433 |
| 200 | MT2-JT0  | 17.78  | 0.7    | 6.35   | 0.25  | 94  | 3.701 |
| 201 | MT2-JT1  | 17.78  | 0.7    | 9.754  | 0.384 | 100 | 3.937 |
| 202 | MT2-JT2  | 17.78  | 0.7    | 14.199 | 0.559 | 105 | 4.134 |
| 203 | MT2-JT3  | 17.78  | 0.7    | 20.599 | 0.811 | 114 | 4.488 |
| 204 | MT2-JT4  | 17.78  | 0.7    | 28.55  | 1.124 | 125 | 4.921 |
| 205 | MT2-JT5  | 17.78  | 0.7    | 35.89  | 1.413 | 130 | 5.118 |
| 206 | MT2-JT6  | 17.78  | 0.7    | 17.17  | 0.676 | 108 | 4.252 |
| 207 | MT2-JT33 | 17.78  | 0.7    | 15.85  | 0.624 | 108 | 4.252 |
| 208 | MT3-B10  | 23.825 | 0.938  | 10.094 | 0.397 | 120 | 4.724 |
| 209 | MT3-B12  | 23.825 | 0.938  | 12.065 | 0.475 | 124 | 4.882 |
| 210 | MT3-B16  | 23.825 | 0.938  | 15.733 | 0.619 | 131 | 5.157 |
| 211 | MT3-B18  | 23.825 | 0.938  | 17.78  | 0.7   | 139 | 5.472 |

| No. | Model    | D      |       | d      |       | L   |        |
|-----|----------|--------|-------|--------|-------|-----|--------|
|     |          | mm     | in    | mm     | in    | mm  | in     |
| 212 | MT3-B22  | 23.825 | 0.938 | 21.793 | 0.858 | 147 | 5.787  |
| 213 | MT3-B24  | 23.825 | 0.938 | 23.825 | 0.938 | 157 | 6.181  |
| 214 | MT3-JT0  | 23.825 | 0.938 | 6.35   | 0.250 | 113 | 4.449  |
| 215 | MT3-JT1  | 23.825 | 0.938 | 9.754  | 0.384 | 118 | 4.646  |
| 216 | MT3-JT2  | 23.825 | 0.938 | 14.199 | 0.559 | 124 | 4.882  |
| 217 | MT3-JT3  | 23.825 | 0.938 | 20.599 | 0.811 | 133 | 5.236  |
| 218 | MT3-JT4  | 23.825 | 0.938 | 28.55  | 1.124 | 144 | 5.669  |
| 219 | MT3-JT5  | 23.825 | 0.938 | 35.89  | 1.413 | 149 | 5.866  |
| 220 | MT3-JT6  | 23.825 | 0.938 | 17.17  | 0.676 | 127 | 5.000  |
| 221 | MT3-JT33 | 23.825 | 0.938 | 15.85  | 0.624 | 127 | 5.000  |
| 222 | MT4-B10  | 31.267 | 1.231 | 10.094 | 0.397 | 145 | 5.709  |
| 223 | MT4-B12  | 31.267 | 1.231 | 12.065 | 0.475 | 149 | 5.866  |
| 224 | MT4-B16  | 31.267 | 1.231 | 15.733 | 0.619 | 156 | 6.142  |
| 225 | MT4-B18  | 31.267 | 1.231 | 17.78  | 0.700 | 164 | 6.457  |
| 226 | MT4-B22  | 31.267 | 1.231 | 21.793 | 0.858 | 172 | 6.772  |
| 227 | MT4-B24  | 31.267 | 1.231 | 23.825 | 0.938 | 182 | 7.165  |
| 228 | MT4-JT0  | 31.267 | 1.231 | 6.35   | 0.250 | 138 | 5.433  |
| 229 | MT4-JT1  | 31.267 | 1.231 | 9.754  | 0.384 | 143 | 5.630  |
| 230 | MT4-JT2  | 31.267 | 1.231 | 14.199 | 0.559 | 149 | 5.866  |
| 231 | MT4-JT3  | 31.267 | 1.231 | 20.599 | 0.811 | 158 | 6.220  |
| 232 | MT4-JT4  | 31.267 | 1.231 | 28.55  | 1.124 | 169 | 6.654  |
| 233 | MT4-JT5  | 31.267 | 1.231 | 35.89  | 1.413 | 174 | 6.850  |
| 234 | MT4-JT6  | 31.267 | 1.231 | 17.17  | 0.676 | 152 | 5.984  |
| 235 | MT4-JT33 | 31.267 | 1.231 | 15.85  | 0.624 | 152 | 5.984  |
| 236 | MT5-B10  | 44.399 | 1.748 | 10.094 | 0.397 | 177 | 6.969  |
| 237 | MT5-B12  | 44.399 | 1.748 | 12.065 | 0.475 | 181 | 7.126  |
| 238 | MT5-B16  | 44.399 | 1.748 | 15.733 | 0.619 | 188 | 7.402  |
| 239 | MT5-B18  | 44.399 | 1.748 | 17.78  | 0.700 | 196 | 7.717  |
| 240 | MT5-B22  | 44.399 | 1.748 | 21.793 | 0.858 | 204 | 8.031  |
| 241 | MT5-B24  | 44.399 | 1.748 | 23.825 | 0.938 | 214 | 8.425  |
| 242 | MT5-JT3  | 44.399 | 1.748 | 20.599 | 0.811 | 190 | 7.480  |
| 243 | MT5-JT4  | 44.399 | 1.748 | 28.55  | 1.124 | 201 | 7.913  |
| 244 | MT5-JT5  | 44.399 | 1.748 | 35.89  | 1.413 | 206 | 8.110  |
| 245 | MT5-JT6  | 44.399 | 1.748 | 17.17  | 0.676 | 184 | 7.244  |
| 246 | MT5-JT33 | 44.399 | 1.748 | 15.85  | 0.624 | 184 | 7.244  |
| 247 | MT6-B16  | 63.348 | 2.49  | 15.733 | 0.619 | 250 | 9.843  |
| 248 | MT6-B18  | 63.348 | 2.49  | 17.78  | 0.700 | 258 | 10.157 |
| 249 | MT6-B22  | 63.348 | 2.49  | 21.793 | 0.858 | 266 | 10.472 |
| 250 | MT6-B24  | 63.348 | 2.49  | 23.825 | 0.938 | 276 | 10.866 |
| 251 | MT6-JT3  | 63.348 | 2.49  | 20.599 | 0.811 | 252 | 9.921  |
| 252 | MT6-JT6  | 63.348 | 2.49  | 17.17  | 0.676 | 246 | 9.685  |
| 253 | MT6-JT33 | 63.348 | 2.49  | 15.85  | 0.624 | 246 | 9.685  |

# Back pull morse taper drill chuck arbors with separation nut



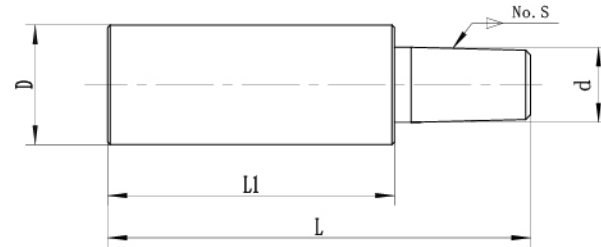
- ☆ Processed with high quality and strength steel, stable performance and high wear resistance after heat treatment
- ☆ The contact area of the shank and the front end is more than 85% by coloring test
- ☆ The shank is connected with the spindle or reducer sleeve of the machine, and the front end is connected with various inner cone drill chucks

- ☆ Easy to remove the drill chuck of the thrust nut and effectively maintain the precision of the inner conical hole
- ☆ PatentNo.: ZL 2019 216306262

| No. | Model     | D      |       | d      |       | L   |       | Bar     |
|-----|-----------|--------|-------|--------|-------|-----|-------|---------|
|     |           | mm     | in    | mm     | in    | mm  | in    |         |
| 254 | MT0W-B6   | 9.045  | 0.356 | 6.35   | 0.250 | 87  | 3.425 | M8X1    |
| 255 | MT0W-B10  | 9.045  | 0.356 | 10.094 | 0.397 | 92  | 3.622 | M12X1.5 |
| 256 | MT0W-B12  | 9.045  | 0.356 | 12.065 | 0.475 | 96  | 3.780 | M14X1.5 |
| 257 | MT0W-B16  | 9.045  | 0.356 | 15.733 | 0.619 | 103 | 4.055 | M18X1.5 |
| 258 | MT0W-B18  | 9.045  | 0.356 | 17.78  | 0.700 | 111 | 4.370 | M20X1.5 |
| 259 | MT0W-B22  | 9.045  | 0.356 | 21.793 | 0.858 | 120 | 4.724 | M24X1.5 |
| 260 | MT0W-B24  | 9.045  | 0.356 | 23.825 | 0.938 | 130 | 5.118 | M26X1.5 |
| 261 | MT0W-JT0  | 9.045  | 0.356 | 6.35   | 0.250 | 85  | 3.346 | M8X1    |
| 262 | MT0W-JT3  | 9.045  | 0.356 | 20.599 | 0.811 | 105 | 4.134 | M24X1.5 |
| 263 | MT0W-JT33 | 9.045  | 0.356 | 15.85  | 0.624 | 100 | 3.937 | M18X1.5 |
| 264 | MT1W-B10  | 12.065 | 0.475 | 10.094 | 0.397 | 96  | 3.780 | M12X1.5 |
| 265 | MT1W-B12  | 12.065 | 0.475 | 12.065 | 0.475 | 100 | 3.937 | M14X1.5 |
| 266 | MT1W-B16  | 12.065 | 0.475 | 15.733 | 0.619 | 107 | 4.213 | M18X1.5 |
| 267 | MT1W-B18  | 12.065 | 0.475 | 17.78  | 0.700 | 115 | 4.528 | M20X1.5 |
| 268 | MT1W-B22  | 12.065 | 0.475 | 21.793 | 0.858 | 124 | 4.882 | M24X1.5 |
| 269 | MT1W-B24  | 12.065 | 0.475 | 23.825 | 0.938 | 134 | 5.276 | M26X1.5 |
| 270 | MT1W-JT0  | 12.065 | 0.475 | 6.35   | 0.250 | 89  | 3.504 | M8X1    |
| 271 | MT1W-JT1  | 12.065 | 0.475 | 9.754  | 0.384 | 95  | 3.740 | M12X1.5 |
| 272 | MT1W-JT2  | 12.065 | 0.475 | 14.199 | 0.559 | 100 | 3.937 | M18X1.5 |
| 273 | MT1W-JT3  | 12.065 | 0.475 | 20.599 | 0.811 | 109 | 4.291 | M24X1.5 |
| 274 | MT1W-JT6  | 12.065 | 0.475 | 17.17  | 0.676 | 104 | 4.094 | M20X1.5 |
| 275 | MT1W-JT33 | 12.065 | 0.475 | 15.85  | 0.624 | 104 | 4.094 | M18X1.5 |
| 276 | MT2W-B10  | 17.78  | 0.700 | 10.094 | 0.397 | 109 | 4.291 | M12X1.5 |
| 277 | MT2W-B12  | 17.78  | 0.700 | 12.065 | 0.475 | 113 | 4.449 | M14X1.5 |
| 278 | MT2W-B16  | 17.78  | 0.700 | 15.733 | 0.619 | 120 | 4.724 | M18X1.5 |
| 279 | MT2W-B18  | 17.78  | 0.700 | 17.78  | 0.700 | 128 | 5.039 | M20X1.5 |
| 280 | MT2W-B22  | 17.78  | 0.700 | 21.793 | 0.858 | 136 | 5.354 | M24X1.5 |
| 281 | MT2W-B24  | 17.78  | 0.700 | 23.825 | 0.938 | 146 | 5.748 | M26X1.5 |
| 282 | MT2W-JT0  | 17.78  | 0.700 | 6.35   | 0.250 | 102 | 4.016 | M8X1    |
| 283 | MT2W-JT1  | 17.78  | 0.700 | 9.754  | 0.384 | 108 | 4.252 | M12X1.5 |
| 284 | MT2W-JT2  | 17.78  | 0.700 | 14.199 | 0.559 | 113 | 4.449 | M18X1.5 |
| 285 | MT2W-JT3  | 17.78  | 0.700 | 20.599 | 0.811 | 122 | 4.803 | M24X1.5 |
| 286 | MT2W-JT6  | 17.78  | 0.700 | 17.17  | 0.676 | 116 | 4.567 | M20X1.5 |
| 287 | MT2W-JT33 | 17.78  | 0.700 | 15.85  | 0.624 | 116 | 4.567 | M18X1.5 |
| 288 | MT3W-B10  | 23.825 | 0.938 | 10.094 | 0.397 | 125 | 4.921 | M12X1.5 |
| 289 | MT3W-B12  | 23.825 | 0.938 | 12.065 | 0.475 | 129 | 5.079 | M14X1.5 |
| 290 | MT3W-B16  | 23.825 | 0.938 | 15.733 | 0.619 | 136 | 5.354 | M18X1.5 |
| 291 | MT3W-B18  | 23.825 | 0.938 | 17.78  | 0.700 | 144 | 5.669 | M20X1.5 |

| No. | Model    | D      |       | d      |       | L   |       | Bar     |
|-----|----------|--------|-------|--------|-------|-----|-------|---------|
|     |          | mm     | in    | mm     | in    | mm  | in    |         |
| 292 | MT3W-B22 | 23.825 | 0.938 | 21.793 | 0.858 | 152 | 5.984 | M24X1.5 |
| 293 | MT3W-B24 | 23.825 | 0.938 | 23.825 | 0.938 | 162 | 6.378 | M26X1.5 |
| 294 | MT3W-JT0 | 23.825 | 0.938 | 6.35   | 0.250 | 118 | 4.646 | M8X1    |
| 295 | MT3W-JT1 | 23.825 | 0.938 | 9.754  | 0.384 | 123 | 4.843 | M12X1.5 |
| 296 | MT3W-JT2 | 23.825 | 0.938 | 14.199 | 0.559 | 129 | 5.079 | M18X1.5 |
| 297 | MT3W-JT3 | 23.825 | 0.938 | 20.599 | 0.811 | 138 | 5.433 | M24X1.5 |
| 298 | MT3W-JT6 |        |       |        |       |     |       |         |

## Straight shank drill chuck arbors

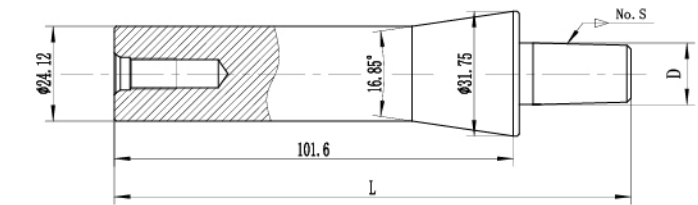


☆ Processed with high quality and strength steel, stable performance and high wear resistance after heat treatment

☆ The contact area of the shank and the front end is more than 85% by coloring test

| No. | Model   | D  |       | d      |       | L1 |       | L   |       | No. | Model    | D  |       | d      |       | L1 |       | L  |       |
|-----|---------|----|-------|--------|-------|----|-------|-----|-------|-----|----------|----|-------|--------|-------|----|-------|----|-------|
|     |         | mm | in    | mm     | in    | mm | in    | mm  | in    |     |          | mm | in    | mm     | in    | mm | in    | mm | in    |
| 328 | C16-B10 | 16 | 0.630 | 10.094 | 0.397 | 50 | 1.969 | 72  | 2.835 | 343 | C16-JT1  | 16 | 0.630 | 9.754  | 0.384 | 50 | 1.969 | 70 | 2.756 |
| 329 | C16-B12 | 16 | 0.630 | 12.065 | 0.475 | 50 | 1.969 | 75  | 2.953 | 344 | C16-JT2  | 16 | 0.630 | 14.199 | 0.559 | 50 | 1.969 | 75 | 2.953 |
| 330 | C16-B16 | 16 | 0.630 | 15.733 | 0.619 | 50 | 1.969 | 82  | 3.228 | 345 | C16-JT3  | 16 | 0.630 | 20.599 | 0.811 | 50 | 1.969 | 84 | 3.307 |
| 331 | C16-B18 | 16 | 0.630 | 17.78  | 0.700 | 50 | 1.969 | 90  | 3.543 | 348 | C16-JT6  | 16 | 0.630 | 17.17  | 0.676 | 50 | 1.969 | 79 | 3.110 |
| 332 | C20-B10 | 20 | 0.787 | 10.094 | 0.397 | 50 | 1.969 | 72  | 2.835 | 347 | C16-JT33 | 20 | 0.787 | 15.85  | 0.624 | 50 | 1.969 | 79 | 3.110 |
| 333 | C20-B12 | 20 | 0.787 | 12.065 | 0.475 | 50 | 1.969 | 75  | 2.953 | 348 | C20-JT1  | 20 | 0.787 | 9.754  | 0.384 | 50 | 1.969 | 70 | 2.756 |
| 334 | C20-B16 | 20 | 0.787 | 15.733 | 0.619 | 50 | 1.969 | 82  | 3.228 | 349 | C20-JT2  | 20 | 0.787 | 14.199 | 0.559 | 50 | 1.969 | 75 | 2.953 |
| 335 | C20-B18 | 20 | 0.787 | 17.78  | 0.700 | 50 | 1.969 | 90  | 3.543 | 350 | C20-JT3  | 20 | 0.787 | 20.599 | 0.811 | 50 | 1.969 | 84 | 3.307 |
| 336 | C20-B22 | 20 | 0.787 | 21.793 | 0.858 | 50 | 1.969 | 99  | 3.898 | 351 | C20-JT6  | 20 | 0.787 | 17.17  | 0.676 | 50 | 1.969 | 79 | 3.110 |
| 337 | C25-B10 | 25 | 0.984 | 10.094 | 0.397 | 60 | 2.362 | 81  | 3.189 | 352 | C20-JT33 | 25 | 0.984 | 15.85  | 0.624 | 60 | 2.362 | 79 | 3.110 |
| 338 | C25-B12 | 25 | 0.984 | 12.065 | 0.475 | 60 | 2.362 | 85  | 3.346 | 353 | C25-JT1  | 25 | 0.984 | 9.754  | 0.384 | 60 | 2.362 | 80 | 3.150 |
| 339 | C25-B16 | 25 | 0.984 | 15.733 | 0.619 | 60 | 2.362 | 92  | 3.622 | 354 | C25-JT2  | 25 | 0.984 | 14.199 | 0.559 | 60 | 2.362 | 85 | 3.346 |
| 340 | C25-B18 | 25 | 0.984 | 17.78  | 0.700 | 60 | 2.362 | 100 | 3.937 | 355 | C25-JT3  | 25 | 0.984 | 20.599 | 0.811 | 60 | 2.362 | 94 | 3.701 |
| 341 | C25-B22 | 25 | 0.984 | 21.793 | 0.858 | 60 | 2.362 | 109 | 4.291 | 358 | C25-JT6  | 25 | 0.984 | 17.17  | 0.676 | 60 | 2.362 | 89 | 3.504 |
| 342 | C25-B24 | 25 | 0.984 | 23.825 | 0.938 | 60 | 2.362 | 119 | 4.685 | 357 | C25-JT33 | 25 | 0.984 | 15.85  | 0.624 | 60 | 2.362 | 89 | 3.504 |

## R8 shank drill chuck arbors



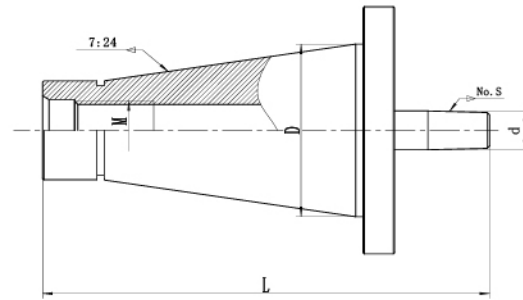
☆ The contact area of the shank and the front end is more than 85% by coloring test

☆ Processed with high quality and strength steel, stable performance and high wear resistance after heat treatment

| No. | Model   | D      |       | L   |       | No. | Model  | D      |       | L     |       |
|-----|---------|--------|-------|-----|-------|-----|--------|--------|-------|-------|-------|
|     |         | mm     | in    | mm  | in    |     |        | mm     | in    | mm    | in    |
| 358 | R8-JT0  | 6.35   | 0.250 | 117 | 4.606 | 366 | R8-B6  | 6.35   | 0.250 | 118.5 | 4.665 |
| 359 | R8-JT1  | 9.754  | 0.384 | 122 | 4.803 | 367 | R8-B10 | 10.094 | 0.397 | 124   | 4.882 |
| 360 | R8-JT2  | 14.199 | 0.559 | 128 | 5.039 | 368 | R8-B12 | 12.065 | 0.475 | 128   | 5.039 |
| 361 | R8-JT33 | 15.85  | 0.624 | 132 | 5.197 | 369 | R8-B16 | 15.733 | 0.619 | 135   | 5.315 |
| 362 | R8-JT6  | 17.17  | 0.676 | 132 | 5.197 | 370 | R8-B18 | 17.78  | 0.700 | 143   | 5.630 |
| 363 | R8-JT3  | 20.599 | 0.811 | 137 | 5.394 | 371 | R8-B22 | 21.793 | 0.858 | 152   | 5.984 |
| 364 | R8-JT4  | 28.55  | 1.124 | 148 | 5.827 | 372 | R8-B24 | 23.825 | 0.938 | 162   | 6.378 |
| 365 | R8-JT5  | 35.89  | 1.413 | 154 | 6.063 |     |        |        |       |       |       |



# NT drill chuck arbors (DIN2080)



☆ Processed with high-quality alloy steel, high wear resistance after special treatment

☆ Heat treatment hardness: HRC58-62

☆ The contact area of the front and rear cone surface is more than 85% by coloring test

☆ Standard: DIN2080

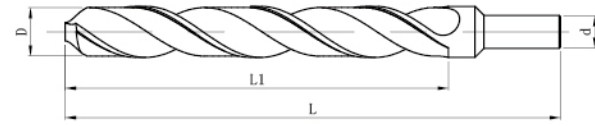
| No. | Model     | D      |       | d (mm) |       | L (mm) |       | M         |
|-----|-----------|--------|-------|--------|-------|--------|-------|-----------|
|     |           | mm     | in    | mm     | in    | mm     | in    |           |
| 373 | NT30-JT0  | 31.75  | 1.25  | 6.35   | 0.250 | 99     | 3.898 | M12X1.75P |
| 374 | NT30-JT1  |        |       | 9.754  | 0.384 | 106    | 4.173 |           |
| 375 | NT30-JT2  |        |       | 14.199 | 0.559 | 113    | 4.449 |           |
| 376 | NT30-JT33 |        |       | 15.85  | 0.624 | 122    | 4.803 |           |
| 377 | NT30-JT6  |        |       | 17.17  | 0.676 | 122    | 4.803 |           |
| 378 | NT30-JT3  |        |       | 20.599 | 0.811 | 123    | 4.843 |           |
| 379 | NT30-JT4  |        |       | 28.55  | 1.124 | 136    | 5.354 |           |
| 380 | NT30-JT5  |        |       | 35.89  | 1.413 | 145    | 5.709 |           |
| 381 | NT40-JT0  |        |       | 6.35   | 0.250 | 126    | 4.961 |           |
| 382 | NT40-JT1  |        |       | 44.45  | 1.75  | 9.754  | 0.384 |           |
| 383 | NT40-JT2  | 14.199 | 0.559 |        |       | 141    | 5.551 |           |
| 384 | NT40-JT33 | 15.85  | 0.624 |        |       | 145    | 5.709 |           |
| 385 | NT40-JT6  | 17.17  | 0.676 |        |       | 145    | 5.709 |           |
| 386 | NT40-JT3  | 20.599 | 0.811 |        |       | 150    | 5.906 |           |
| 387 | NT40-JT4  | 28.55  | 1.124 |        |       | 165    | 6.496 |           |
| 388 | NT40-JT5  | 35.89  | 1.413 |        |       | 170    | 6.693 |           |
| 389 | NT50-JT1  | 9.754  | 0.384 |        |       | 175    | 6.890 |           |
| 390 | NT50-JT2  | 14.199 | 0.559 |        |       | 180    | 7.087 |           |
| 391 | NT50-JT33 | 15.85  | 0.624 |        |       | 184    | 7.244 | M24X3P    |
| 392 | NT50-JT6  | 69.85  | 2.75  | 17.17  | 0.676 | 184    | 7.244 |           |
| 393 | NT50-JT3  |        |       | 20.599 | 0.811 | 191    | 7.520 |           |
| 394 | NT40-JT4  |        |       | 28.55  | 1.124 | 202    | 7.953 |           |

| No. | Model    | D     |      | d (mm) |       | L (mm) |       | M         |
|-----|----------|-------|------|--------|-------|--------|-------|-----------|
|     |          | mm    | in   | mm     | in    | mm     | in    |           |
| 395 | NT50-JT5 | 69.85 | 2.75 | 28.55  | 1.124 | 208    | 8.189 | M24X3P    |
| 396 | NT30-B10 | 31.75 | 1.25 | 10.094 | 0.397 | 104    | 4.094 | M12X1.75P |
| 397 | NT30-B12 |       |      | 12.065 | 0.475 | 108    | 4.252 |           |
| 398 | NT30-B16 |       |      | 15.733 | 0.619 | 116    | 4.567 |           |
| 399 | NT30-B18 |       |      | 17.78  | 0.700 | 124    | 4.882 |           |
| 400 | NT30-B22 |       |      | 21.793 | 0.858 | 133    | 5.236 |           |
| 401 | NT30-B24 |       |      | 23.825 | 0.938 | 143    | 5.630 |           |
| 402 | NT40-B10 | 44.45 | 1.75 | 10.094 | 0.397 | 132    | 5.197 | M16X2P    |
| 403 | NT40-B12 |       |      | 12.065 | 0.475 | 136    | 5.354 |           |
| 404 | NT40-B16 |       |      | 15.733 | 0.619 | 143    | 5.630 |           |
| 405 | NT40-B18 |       |      | 17.78  | 0.700 | 151    | 5.945 |           |
| 406 | NT40-B22 |       |      | 21.793 | 0.858 | 160    | 6.299 |           |
| 407 | NT40-B24 |       |      | 23.825 | 0.938 | 169    | 6.654 |           |
| 408 | NT50-B10 | 69.85 | 2.75 | 10.094 | 0.397 | 170    | 6.693 | M24X3P    |
| 409 | NT50-B12 |       |      | 12.065 | 0.475 | 174    | 6.850 |           |
| 410 | NT50-B16 |       |      | 15.733 | 0.619 | 182    | 7.165 |           |
| 411 | NT50-B18 |       |      | 17.78  | 0.700 | 195    | 7.677 |           |
| 412 | NT50-B22 |       |      | 21.793 | 0.858 | 200    | 7.874 |           |
| 413 | NT50-B24 |       |      | 23.825 | 0.938 | 215    | 8.465 |           |

Cutting Tool Series

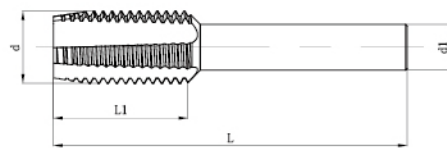


## High Speed steel straight shank twist drill



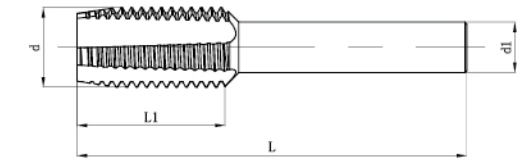
| No. | Number | D    | L    | L1   | d    | Remark | No. | Number | D    | L    | L1   | d    | Remark |
|-----|--------|------|------|------|------|--------|-----|--------|------|------|------|------|--------|
|     |        | (mm) | (mm) | (mm) | (mm) |        |     |        | (mm) | (mm) | (mm) | (mm) |        |
| 414 | 1      | 13.5 | 152  | 76   | 12.7 |        | 431 | 18     | 22   | 152  | 76   | 12.7 |        |
| 415 | 2      | 14   | 152  | 76   | 12.7 |        | 432 | 19     | 22.5 | 152  | 76   | 12.7 |        |
| 416 | 3      | 14.5 | 152  | 76   | 12.7 |        | 433 | 20     | 23   | 152  | 76   | 12.7 |        |
| 417 | 4      | 15   | 152  | 76   | 12.7 |        | 434 | 21     | 23.5 | 152  | 76   | 12.7 |        |
| 418 | 5      | 15.5 | 152  | 76   | 12.7 |        | 435 | 22     | 24   | 152  | 76   | 12.7 |        |
| 419 | 6      | 16   | 152  | 76   | 12.7 |        | 436 | 23     | 24.5 | 152  | 76   | 12.7 |        |
| 420 | 7      | 16.5 | 152  | 76   | 12.7 |        | 437 | 24     | 25   | 152  | 76   | 12.7 |        |
| 421 | 8      | 17   | 152  | 76   | 12.7 |        | 438 | 25     | 25.5 | 152  | 76   | 12.7 |        |
| 422 | 9      | 17.5 | 152  | 76   | 12.7 |        | 439 | 26     | 26   | 152  | 76   | 12.7 |        |
| 423 | 10     | 18   | 152  | 76   | 12.7 |        | 440 | 27     | 26.5 | 152  | 76   | 12.7 |        |
| 424 | 11     | 18.5 | 152  | 76   | 12.7 |        | 441 | 28     | 27   | 152  | 76   | 12.7 |        |
| 425 | 12     | 19   | 152  | 76   | 12.7 |        | 442 | 29     | 27.5 | 152  | 76   | 12.7 |        |
| 426 | 13     | 19.5 | 152  | 76   | 12.7 |        | 443 | 30     | 28   | 152  | 76   | 12.7 |        |
| 427 | 14     | 20   | 152  | 76   | 12.7 |        | 444 | 31     | 28.5 | 152  | 76   | 12.7 |        |
| 428 | 15     | 20.5 | 152  | 76   | 12.7 |        | 445 | 32     | 29   | 152  | 76   | 12.7 |        |
| 429 | 16     | 21   | 152  | 76   | 12.7 |        | 446 | 33     | 29.5 | 152  | 76   | 12.7 |        |
| 430 | 17     | 21.5 | 152  | 76   | 12.7 |        | 447 | 34     | 30   | 152  | 76   | 12.7 |        |

## Common machine thread tap



| No. | Model | Nominal diameter | Pitch | d1   | L1   | L    |
|-----|-------|------------------|-------|------|------|------|
|     |       | (mm)             | (mm)  | (mm) | (mm) | (mm) |
| 449 | M3    | 3.0              | 0.5   | 2.24 | 11   | 44   |
| 450 | M4    | 4.0              | 0.7   | 3.15 | 13   | 48   |
| 451 | M5    | 5.0              | 0.8   | 4    | 16   | 52   |
| 452 | M6    | 6.0              | 1     | 4.5  | 19   | 60   |
| 453 | M8    | 8.0              | 1.25  | 6.3  | 22   | 64   |
| 454 | M10   | 10.0             | 1.5   | 8    | 24   | 71   |
| 455 | M12   | 12.0             | 1.75  | 9    | 29   | 79   |
| 456 | M14   | 14.0             | 2     | 11.2 | 30   | 83   |
| 457 | M16   | 16.0             | 2     | 12.5 | 32   | 89   |
| 458 | M18   | 18.0             | 2.5   | 13   | 37   | 98   |
| 459 | M18   | 18.0             | 2.5   | 16   | 37   | 98   |
| 460 | M20   | 20.0             | 2.5   | 13   | 37   | 98   |
| 461 | M20   | 20.0             | 2.5   | 16   | 37   | 98   |
| 462 | M22   | 22.0             | 2.5   | 13   | 38   | 102  |
| 463 | M22   | 22.0             | 2.5   | 16   | 38   | 102  |
| 464 | M24   | 24.0             | 3     | 13   | 45   | 112  |
| 465 | M24   | 24.0             | 3     | 16   | 45   | 112  |

## Common fine thread tap



| No. | Model     | Nominal diameter | Pitch | d1   | L1   | L    |
|-----|-----------|------------------|-------|------|------|------|
|     |           | (mm)             | (mm)  | (mm) | (mm) | (mm) |
| 466 | M3X0.35   | 3                | 0.35  | 2.24 | 11   | 44   |
| 467 | M3.5X0.35 | 3.5              | 0.35  | 2.5  | 13   | 46   |
| 468 | M4X0.5    | 4                | 0.5   | 3.15 | 13   | 48   |
| 469 | M5X0.5    | 5                | 0.5   | 4    | 16   | 52   |
| 470 | M6X0.75   | 6                | 0.75  | 4.5  | 19   | 60   |
| 471 | M8X0.75   | 8                | 0.75  | 6.3  | 19   | 58   |
| 472 | M8X1      | 8                | 1     | 6.3  | 22   | 66   |
| 473 | M10X0.75  | 10               | 0.75  | 8    | 20   | 64   |
| 474 | M10X1     | 10               | 1     | 8    | 24   | 71   |
| 475 | M10X1.25  | 10               | 1.25  | 8    | 24   | 71   |
| 476 | M12X1     | 12               | 1     | 9    | 22   | 70   |
| 477 | M12X1.25  | 12               | 1.25  | 9    | 29   | 79   |
| 478 | M12X1.5   | 12               | 1.5   | 9    | 29   | 79   |
| 479 | M14X1     | 14               | 1     | 11.2 | 22   | 75   |
| 480 | M14X1.25  | 14               | 1.25  | 11.2 | 30   | 83   |
| 481 | M14X1.5   | 14               | 1.5   | 11.2 | 30   | 83   |
| 482 | M16X1     | 16               | 1     | 12.5 | 22   | 79   |
| 483 | M16X1.5   | 16               | 1.5   | 12.5 | 32   | 89   |
| 484 | M18X1     | 18               | 1     | 13   | 22   | 83   |
| 485 | M18X1.5   | 18               | 1.5   | 13   | 37   | 98   |
| 486 | M18X2     | 18               | 2     | 13   | 37   | 98   |
| 487 | M18X1     | 18               | 1     | 16   | 22   | 83   |
| 488 | M18X1.5   | 18               | 1.5   | 16   | 37   | 98   |
| 489 | M18X2     | 18               | 2     | 16   | 37   | 98   |
| 490 | M20X1     | 20               | 1     | 13   | 22   | 88   |
| 491 | M20X1.5   | 20               | 1.5   | 13   | 37   | 98   |
| 492 | M20X2     | 20               | 2     | 13   | 37   | 98   |
| 493 | M20X1     | 20               | 1     | 16   | 22   | 88   |
| 494 | M20X1.5   | 20               | 1.5   | 16   | 37   | 98   |
| 495 | M20X2     | 20               | 2     | 16   | 37   | 98   |
| 496 | M22X1     | 22               | 1     | 13   | 24   | 93   |
| 497 | M22X1.5   | 22               | 1.5   | 13   | 38   | 102  |
| 498 | M22X2     | 22               | 2     | 13   | 38   | 102  |
| 499 | M22X1     | 22               | 1     | 16   | 24   | 93   |
| 500 | M22X1.5   | 22               | 1.5   | 16   | 38   | 102  |
| 501 | M22X2     | 22               | 2     | 16   | 38   | 102  |
| 502 | M24X1     | 24               | 1     | 13   | 24   | 96   |
| 503 | M24X1.5   | 24               | 1.5   | 13   | 45   | 112  |
| 504 | M24X2     | 24               | 2     | 13   | 45   | 112  |
| 505 | M24X1     | 24               | 1     | 16   | 24   | 96   |
| 506 | M24X1.5   | 24               | 1.5   | 16   | 45   | 112  |
| 507 | M24X2     | 24               | 2     | 16   | 45   | 112  |

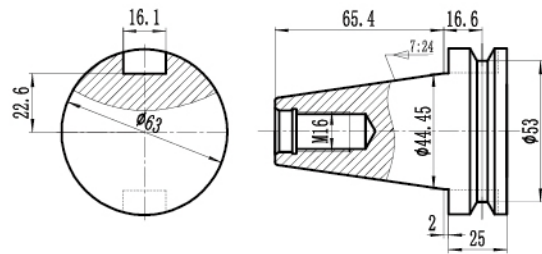


# Technical date

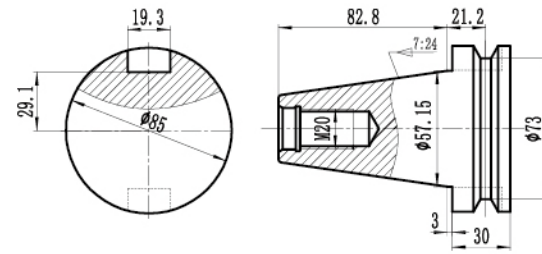
## BT technical date

Taper shank form / Japan MAS 403BT

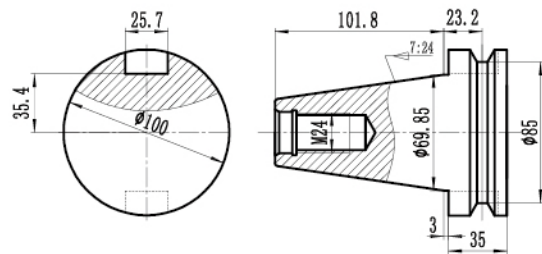
BT40 40 handles



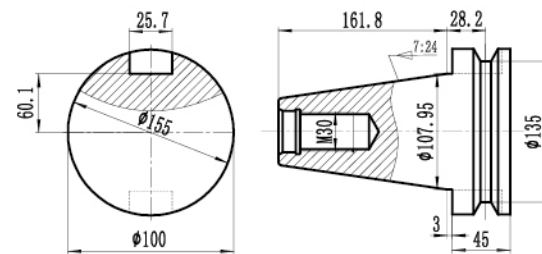
BT45 45 handles



BT50 50 handles



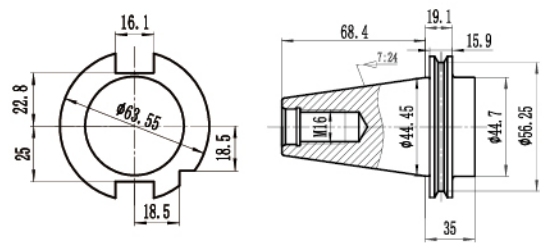
BT60 60 handles



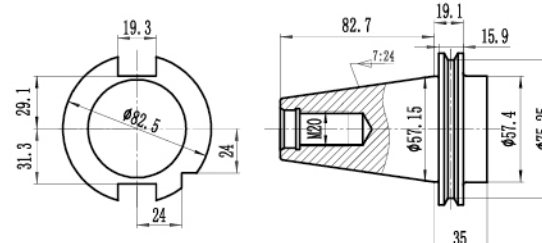
## DAT technical date

Taper shank form / International 73881-A  
Germany DIN69871-A / China GB10944

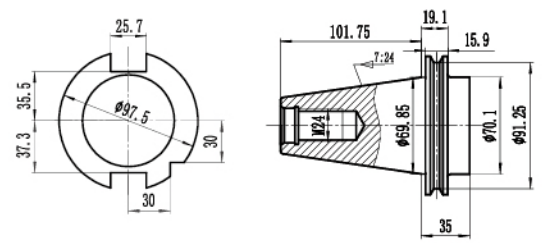
DAT40 40 handles



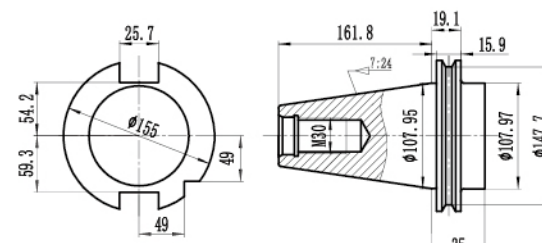
DAT45 45 handles



DAT50 50 handles



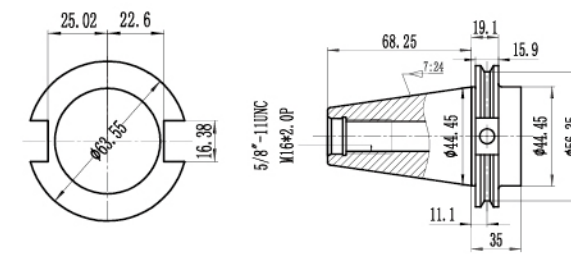
DAT60 60 handles



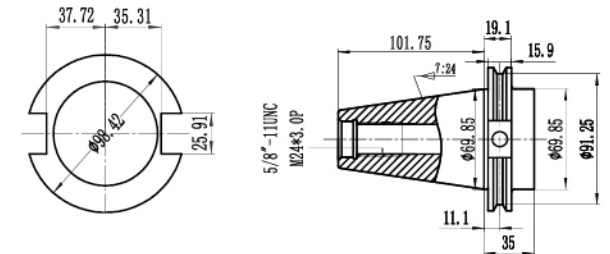
## CAT technical date

Taper shank form / USA ANSI B5.59CAT

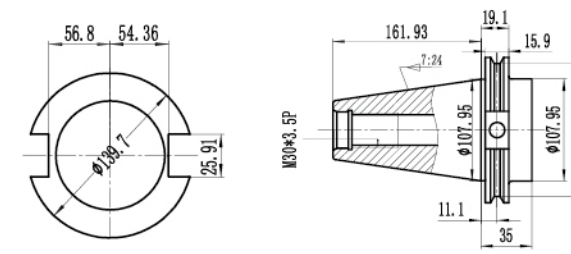
CAT40 40 handles



CAT50 50 handles



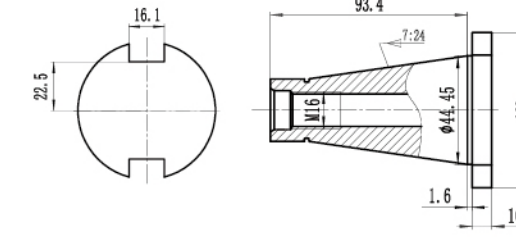
CAT60 60 handles



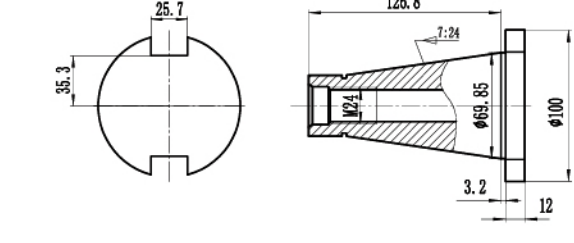
## NT technical date

Taper shank form / China GB3837 / Germany DIN2080

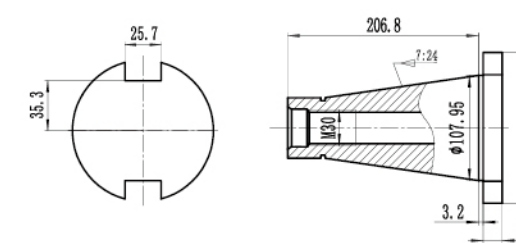
NT40 40 handles



NT50 50 handles

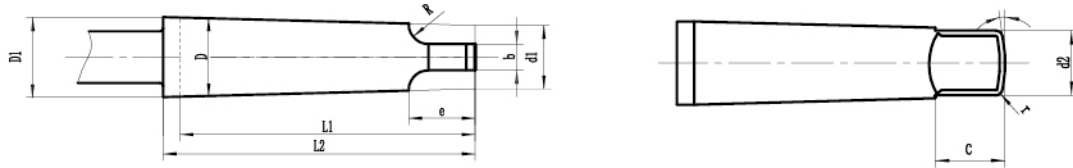


NT60 60 handles



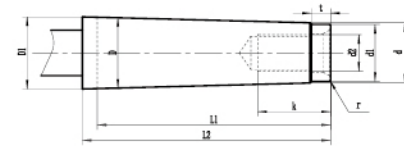
## Common coarse thread tap

### MTA Flat tail Morse taper shank DIN228-A



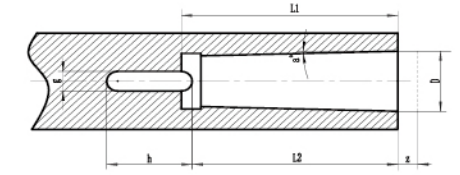
| No. | Taper NO. | MTA0  | MTA1   | MTA2   | MTA3   | MTA4   | MTA5   | MTA6   | MTA7   |
|-----|-----------|-------|--------|--------|--------|--------|--------|--------|--------|
| 508 | D(mm)     | 9.045 | 12.065 | 17.780 | 23.825 | 31.267 | 44.399 | 63.348 | 83.058 |
| 509 | D1(mm)    | 9.201 | 12.240 | 18.030 | 24.076 | 31.605 | 44.741 | 65.765 | 83.578 |
| 510 | d1(mm)    | 6.104 | 8.972  | 14.034 | 19.107 | 25.164 | 36.531 | 52.399 | 68.185 |
| 511 | d2(mm)    | 6     | 8.7    | 13.5   | 18.5   | 24.5   | 35.7   | 51.0   | 66.8   |
| 512 | L1(mm)    | 56.5  | 62.0   | 75.0   | 94.0   | 117.5  | 149.5  | 210.0  | 286.0  |
| 513 | L2(mm)    | 59.5  | 65.5   | 80.0   | 99.0   | 124.0  | 156.0  | 218.0  | 296.0  |
| 514 | b(mm)     | 3.9   | 5.2    | 6.3    | 7.9    | 11.9   | 15.9   | 19.0   | 28.6   |
| 515 | c(mm)     | 6.5   | 8.5    | 10.0   | 13.0   | 16.0   | 19.0   | 27.0   | 35.0   |
| 516 | e(mm)     | 10.5  | 13.5   | 16.0   | 20.0   | 24.0   | 29.0   | 40.0   | 54.0   |
| 517 | R(mm)     | 4     | 5      | 6      | 7      | 8      | 10     | 13     | 19     |
| 518 | r(mm)     | 1     | 1.2    | 1.6    | 2      | 2.5    | 3      | 4      | 5      |

### MTB Back pull Morse taper shank DIN228-B



| No. | Taper NO. | MTA0  | MTA1   | MTA2   | MTA3   | MTA4   | MTA5   | MTA6   | MTA7   |
|-----|-----------|-------|--------|--------|--------|--------|--------|--------|--------|
| 519 | D(mm)     | 9.045 | 12.065 | 17.780 | 23.825 | 23.825 | 44.399 | 63.348 | 83.058 |
| 520 | D1(mm)    | 9.201 | 12.240 | 18.030 | 24.076 | 24.076 | 44.741 | 65.765 | 83.578 |
| 521 | d(mm)     | 6.442 | 9.396  | 14.583 | 19.759 | 19.759 | 37.584 | 53.859 | 70.052 |
| 522 | d1(mm)    | 6     | 9      | 14     | 19     | 19     | 35.7   | 51     | 65     |
| 523 | L1(mm)    | 50    | 53.5   | 64     | 81     | 81     | 129.5  | 182    | 250    |
| 524 | L2(mm)    | 53    | 57     | 69     | 86     | 86     | 136    | 190    | 260    |
| 525 | t(mm)     | 4     | 5      | 5      | 7      | 7      | 9      | 12     | 18.5   |
| 526 | r(mm)     | 0.2   | 0.2    | 0.2    | 0.6    | 0.6    | 2.5    | 4.0    | 5.0    |
| 527 | d2(mm)    | -     | M6     | M10    | M12    | M12    | M20    | M24    | M33    |
| 528 | k(mm)     | -     | 16     | 24     | 28     | 28     | 40     | 50     | 60     |

### Flat tail Morse taper connection size DIN228-D

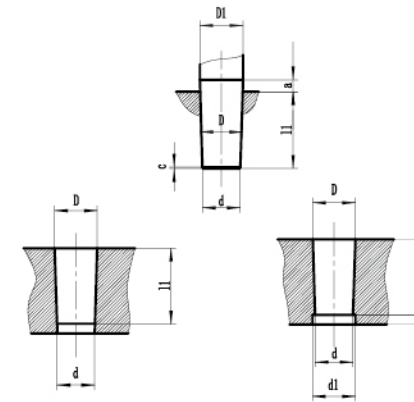


| No. | Taper NO. | MTA0      | MTA1      | MTA2      | MTA3      | MTA4      | MTA5      | MTA6      | MTA7      |
|-----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 529 | D(mm)     | 9.045     | 12.065    | 17.780    | 23.825    | 31.267    | 44.399    | 63.348    | 83.058    |
| 530 | L1(mm)    | 52        | 56        | 67        | 84        | 107       | 135       | 188       | 258       |
| 531 | L2(mm)    | 49        | 52        | 62        | 78        | 98        | 125       | 177       | 241       |
| 532 | g(mm)     | 4.1       | 5.4       | 6.6       | 8.2       | 12.2      | 16.2      | 19.3      | 28.8      |
| 533 | h(mm)     | 15        | 19        | 22        | 27        | 32        | 38        | 47        | 69        |
| 534 | z(mm)     | 1         | 1         | 1         | 1         | 1.5       | 1.5       | 2         | 2         |
| 535 | a°(mm)    | 1° 29'27" | 1° 25'43" | 1° 25'50" | 1° 26'16" | 1° 29'15" | 1° 30'26" | 1° 29'36" | 1° 29'22" |

## Drill chuck short cone technical data

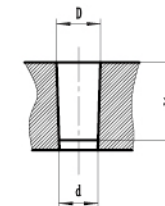
GB/T6090-2003/ISO239:1999

### Morse taper type



| No. | Morse taper NO. | B6         | B10    | B12     | B16     | B18     | B22     | B24    |        |
|-----|-----------------|------------|--------|---------|---------|---------|---------|--------|--------|
| 536 | D(mm)           | 6.35       | 10.094 | 12.065  | 15.733  | 17.78   | 21.793  | 23.825 |        |
| 537 | D1(mm)          | 6.5        | 10.3   | 12.2    | 16      | 18      | 22      | 24.1   |        |
| 538 | d(mm)           | 5.85       | 9.4    | 11.1    | 14.5    | 16.2    | 19.8    | 21.3   |        |
| 539 | d1(mm)          | 6.5        | 9.8    | 11.5    | 15      | 16.8    | 20.5    | 22     |        |
| 540 | L1(mm)          | 10         | 14.5   | 18.5    | 24      | 32      | 40.5    | 50.5   |        |
| 541 | amax(mm)        | 3          | 3.5    | 3.5     | 5       | 5       | 5       | 5      |        |
| 542 | b(mm)           | 3          | 3.5    | 3.5     | 4       | 4       | 4.5     | 4.5    |        |
| 543 | c(mm)           | 0.5        | 1      | 1       | 1.5     | 1.5     | 2       | 2      |        |
| 544 | Taper (mm)      | Mas.No     | 1      | 1       | 1       | 2       | 2       | 3      | 3      |
|     |                 | TaperValue | 0.05   | 0.04988 | 0.04988 | 0.04995 | 0.04995 | 0.0502 | 0.0502 |

### Jagger taper type



| No. | Jagger taper NO. | JT0     | JT1     | JT2     | JT33   | JT6     | JT3     |
|-----|------------------|---------|---------|---------|--------|---------|---------|
| 545 | D(mm)            | 6.35    | 9.754   | 14.199  | 15.85  | 17.17   | 20.599  |
| 546 | d(mm)            | 5.802   | 8.459   | 12.386  | 14.237 | 15.852  | 18.951  |
| 547 | L1(mm)           | 11.112  | 16.669  | 22.225  | 25.4   | 25.4    | 30.956  |
| 548 | Taper (mm)       | 0.04923 | 0.07709 | 0.08155 | 0.0635 | 0.05191 | 0.05325 |



# COMPANY PROFILE

Fobit Precision Technology Co.,Ltd. is an exclusive product sales company authorized by Weihai Dawang Machinery Technology Co., Ltd. Weihai Dawang Machinery Technology Co., Ltd., was established in 2007 and located in Weihai, a beautiful coastal city. Since July 2010, the company has been focusing on the R&D, design and production of high-end drill chucks. In the past 10 years, the company has developed the self-tightening drill chucks with gear transmission structure, strong clamping force, while working without slipping during work, manual clamping quickly, and easy release of drill tools. It broke the traditional structure of the drill chucks industry for more than 120 years, filled seven industry gaps, and obtained invention patents in China, the United States, EU, Japan, Russia and other countries and regions. Dawang company is recognized as a high-tech enterprise by the government.

In order to ensure product quality, Dawang Company has successively introduced more than 30 sets of advanced CNC machining equipment and precise testing equipment from international well-known companies such as Hardinge Inc. (USA) and Tsugami Company (Japan). The company has strong technical force and an efficient and professional technical management team. There are 8 professional technical engineers with

intermediate and senior professional titles, who can provide technical support for the users at any time. The company has a perfect and scientific management system, and all production is managed by ERP system, and the quality is stable. In 2021, the company got the ISO9001 Quality System Certification.

Since the establishment, the company has been pursuing honest management, and has invested more in R&D continuously and paid attention to the production of high-quality, refined and new cost-effective products that are urgently needed in the market, so that to reduce the cost of customers directly and provide support to customers. At the same time, the company has been improving the working efficiency of products and expanding the processing range of product, and helping customers to get more profits. Whether it is product performance or customer service, customer satisfaction is the goal of the company for ever. Strive to become a well-known enterprise in the drill chucks industry within 5 years and a leading enterprise in the industry within 10 years. Fodbits is your choice, trust and satisfaction!





## I Story of Miss. Fodbits Chuck

Since the birth of Mr. Drill Bit in 1864, it has been more than 150 years. 120 years ago, an American, Mr. Arthur Irving Jacobs, invented Miss drill chuck, a gear key wrench drill chuck. Since then, the drill bit and the drill chuck have cooperated to open the door of hole processing in the machinery industry. 90 years ago, Mr. Albrecht, a German, invented the self-tightening drill chuck with higher clamping force, which brought a better choice for customers.

So far, there are many members in the drill chuck family as well-known members Miss Jacobs, born in the United States, is 120 years old; Rohm, born in Germany, is 120 years old; Miss Albrecht is 90 years old; Miss Chum Power, born in Taiwan, is 40 years old; and the young are Miss WeiDa, born in China, 25 years old; and Miss Sanou, 24 years old; All of them have made outstanding contributions to round-hole processing in the machinery industry worldwide.

Unfortunately, 7 problems in the drill chucks industry have not been solved for over a hundred years. The main problem was that the clamping force couldn't meet all kinds of requirements of the drill bit, and slipping often occurred while working, which made the work of the drill bit unable to continue, and stopping and clamping again and again, which not only affected the work efficiency but also affected the profit of the enterprise. In addition, due to the slipping, the clamped part of the drill bit and the blade part of the clamping jaw of the drill chuck were damaged by friction, which significantly reduced the service life of both the drill bit and drill chuck, which also directly increased the cost of using a drill bit and drill chuck for enterprises.

The drill bit knew his strong working abilities were affected by the drill chuck, so he often complained about the drill chuck. The relationship between the drill bit and drill chuck could have been better.

The drill chuck felt that it was not her own reason. She did her best but still needed help to meet the requirements of the drill bit. She also felt helpless and cried all day. She prayed and hoped that the Creator could help her become more robust, help the drill bit realize his value, and improve her relationship with the drill bit.

The enterprises also hoped that the innovative drill chuck could overcome the world's problems that have existed for 120 years. The drill bit with strong capability was even more eager for the Creator to deliver the new drill chuck with super-large clamping force and no slipping while working with him one day earlier.

The Creator was faithful. In July 2010, he entrusted this arduous task to a person who knew nothing about the drill chuck to lead to solving this industry problem for more than a century. The road of R & D was tough, with detours going round and round, and suffered failure repeatedly. Also, funds have been invested year after year, and he has come to the end of despair four times. But he was an unwilling layman; with his small R & D team, he continued to explore and verify one possibility after another with different mechanical principles and pursued the seemingly impending success, but the reality was very slim.

After stumbling and escaping 4 times, in a development period of more disappointment than hope and frustration than joy, the time seems extraordinarily long. On July 17, 2019, the tenth year of R&D, the dawn of success appeared; the last one of the seven industry's century-old problems (the backstop device to ensure that the self-tightening drill chuck can be reversed reliably) was finally overcome by this layman's 4-person R & D team and completed the last puzzle piece of the drill chuck with powerful functions, excellent performance, and outstanding performance. The early design goals of R & D were finally completed. A member with new functions was born in the drill chucks family. It's time for Mr. drill bit and the customer to get to know and understand the little member's functions and performance.

With trepidation, they provided seven immature samples to seven companies for testing. Received feedback from one company the next day; they exclaimed, "It's great. Didn't expect to have such an easy-to-use drill chuck; the clamping force is powerful, even when holding a 30mm drill bit when drilling without slipping, and what surprised them was that after the work was completed, the drill chuck could be easily loosened by hand without tools, which saved time and labor, and significantly improved the work efficiency. In addition, what's more, magical was that this self-tightening drill chuck could fasten screws. Even if the size of the clamping tap was as large as M24, the fastening screws were without slipping and were loosened by hand.

The boss of this company was so happy that he wanted to be the general agent of the region at that time. After receiving feedback from other testing companies, they were surprised, especially those processing stainless steel.

However, the happiest thing is the drill bit, looking forward to the stars and the moon, and finally looking forward to the magic drill chuck that he has dreamed of and loves wholeheartedly once used, which meets all his expectations for the performance of the drill chuck and believes that this is his future destination.

With the witness and blessing of the Creator, all members of drill chucks, and customers, Mr. drill bit couldn't wait to take out the most exquisite round hole ring made by him as a drilling expert and proposed to the drill chuck, which satisfied all his fantasies for the first time in his life.

The unexpected drill chuck was excited. She had been looking forward to waiting for this moment for more than 120 years. She felt Mr. Drill bit heartfelt love for her for the first time. For the first time, she felt that her own value was recognized and affirmed by him. And she saw the smile of approval of his ability from the customers present. For the first time, she saw the praise of many family members for the power of this little member, and she experienced the honor of being proposed in the history of drill chuck for the first time. The grievances and sadness of the past disappeared, and she was full of joy and happiness. She agreed to Mr. drill bit's proposal and walked into the marriage hall hand in hand with him, officially becoming Mr. drill bit's favorite wife.

They no longer complained about each other and found their true love. They loved, depended on each other, and embraced and integrated passionately. They tacitly and smoothly completed the work undertaken by their families, greatly improved work efficiency, and realized more value.

They sincerely thank the Creator for choosing a layman out of the inherent design ideas of experts, designing a new structure, and being able to continuously invest financial resources, and took 10 years to solve seven problems of drill chuck successfully that have not been solved for more than 120 years, which are, a. Weak clamping force, b. Slipping while working, c. The complex operation, d. Self-tightening drill chuck can only drill holes but not tighten screws, e. Wrench drill chuck can only drill small holes, not large ones, and only tighten small screws, not tightening large ones, f. Short service life, g. Long closing and loosening time. In addition, it also has new powerful functions (drilling large holes, tightening large screws) that the old one does not have. With one specification of the new drill chuck, it can replace several specifications of the old one. So, the existing industry standards of the drill chucks industry are entirely overturned.

With the strong support of this newly born and great drill chuck, the drill bit was full of vitality again, fully realized its value, improved efficiency, reduced cost, and returned the company's trust.

Winning back the love of the drill bit, the newly-born Chuck was also full of pride. She was very proud and confident and showed her powerful functions heartily, helped the lover to realize all values, and helped companies to create new values, and she felt happy for this.

Similarly, the small R&D team of laymen also thanked the Creator. The Creator chose them to complete this seemingly impossible task and created a long-awaited partner of the drill bit, benefiting the whole round hole processing industry in the world, realizing the dream with wisdom and value.

Inspired by the Creator, laymen named this magical drill chuck FODBITS in English, the abbreviation of Fate of Drill Bits, which means that this drill chuck is the favorite of all drill bits ever! The Chinese translation is 福比特.

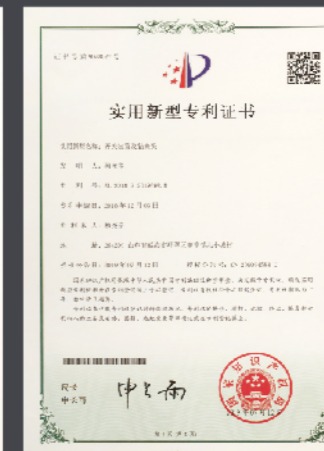
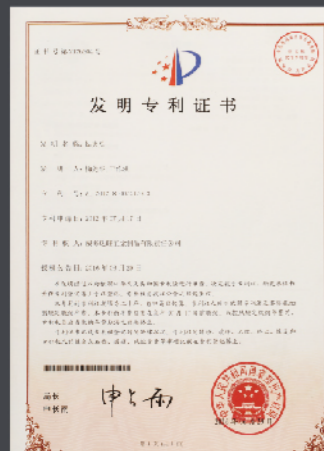
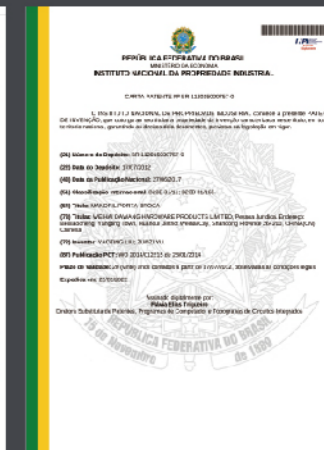
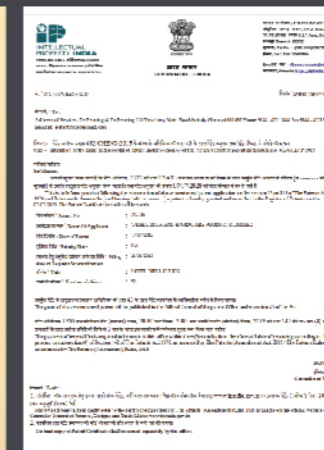
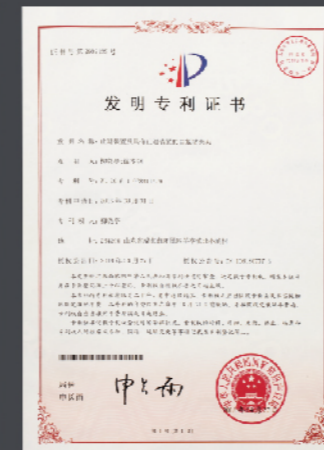
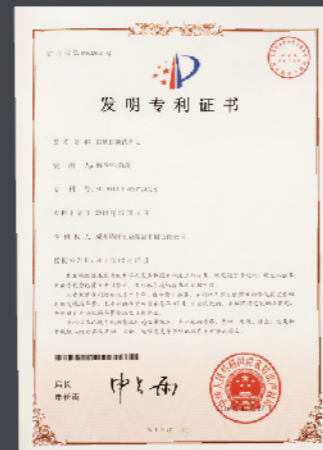
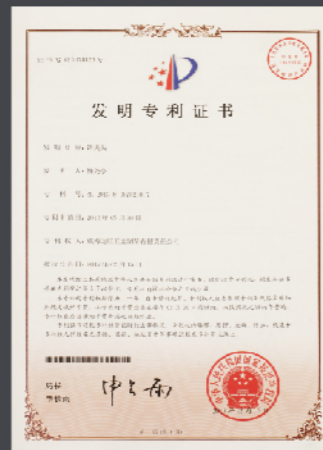
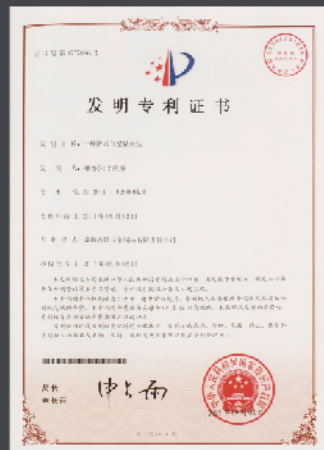
We wish them to love forever and ever and expect the new couple to dedicate the highest value and contribute more to the world's mechanical round hole processing industry for a long time.

Fobit Precision Technology Co.,Ltd



# FODBITS®

# Certificate of honor





FODBITS®

