



標準
Standard

FIG.1

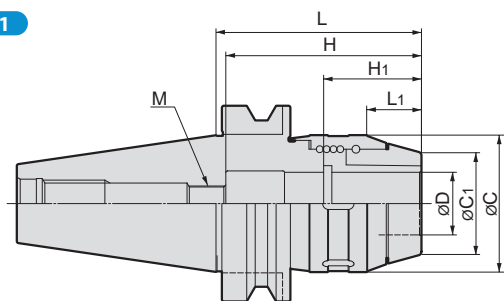


FIG.2

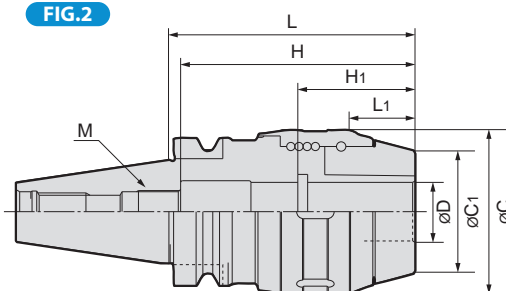
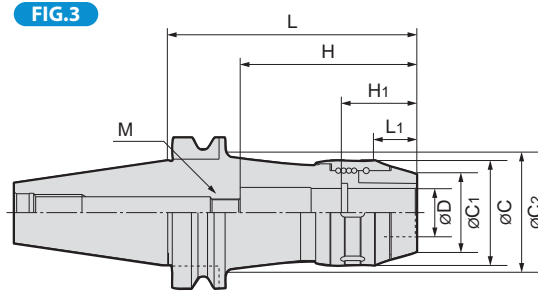


FIG.3



シャンク公差h7以内の刃具をご使用下さい。
Cutter shank diameter should be h7 or better.

| MODEL | A | AA | BBT | FIG | øD | L | L1 | øC | øC1 | øC2 | H | H1 | 最小刃具挿入量 (H2) | 調整量 | M | N/W (kg) | |
|-------------------------------|--------|-----|-----|-----|----|-----|------|------|-----|-----|-------|-----|--------------|---------|--------|----------|-----|
| | | | | | | | | | | | | | スキマ(ST) | センタ(CT) | F | | |
| Max. 10,000 min ⁻¹ | | | | | | | | | | | | | | | | | |
| BT30 (BBT30) | HPC16- | 100 | ○ | ○ | ○ | 16 | 100 | 26 | 56 | 34 | 85 | 50 | 40 | 51 | 70~80 | M10 | 1.4 |
| | HPC20- | 100 | ○ | ○ | ○ | | | | | | | | | | | | 20 |
| | HPC25- | 100 | △ | △ | △ | 25 | 27.5 | 62 | 44 | 50 | 57~70 | M18 | 1.6 | | | | |
| | HPC32- | 105 | △ | △ | △ | 32 | 105 | 70 | 52 | 55 | 55 | 1.9 | | | | | |
| Max. 10,000 min ⁻¹ | | | | | | | | | | | | | | | | | |
| BT40 (BBT40) | HPC16- | 090 | ○ | ○ | ○ | 16 | 90 | 26 | 56 | 34 | 85 | 50 | 40 | 51 | 70~80 | M10 | 1.8 |
| | HPC16- | 120 | △ | △ | △ | | | | | | | | | | | | 120 |
| | HPC20- | 090 | ○ | ○ | ○ | 20 | 90 | 26 | 56 | 38 | 85 | 50 | 45 | 51 | 70~80 | M10 | 1.7 |
| | HPC20- | 120 | △ | △ | △ | | | | | | | | | | | | 120 |
| | HPC25- | 105 | ○ | ○ | ○ | 25 | 105 | 27.5 | 62 | 44 | 100 | 50 | 50 | 77~90 | M18 | 2.0 | |
| | HPC25- | 135 | △ | △ | △ | | | | | | | | | | | 135 | 52 |
| | HPC32- | 105 | ○ | ○ | ○ | 32 | 105 | 27.5 | 70 | 52 | 117 | 53 | 55 | 55 | 94~107 | M18 | 2.2 |
| | HPC32- | 135 | △ | △ | △ | | | | | | | | | | | | 135 |
| HPC42- | 135 | △ | △ | △ | 42 | 135 | 30.5 | 82 | 62 | 100 | 57 | 60 | 60 | 77~90 | M18 | 3.5 | |

| MODEL | A | AA | BBT | FIG | φD | L | L1 | φC | φC1 | φC2 | H | H1 | 最小刃具挿入量(H2) スキマ(ST) センタ(CT) | 調整量 F | M | N/W (kg) | | | | | |
|------------------------------|--------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|----|--------------------------------|----------|--------|-------------|-----|-----|-----|-----|-----|
| Max. 8,000 min ⁻¹ | | | | | | | | | | | | | | | | | | | | | |
| BT50 (BBT50) | HPC16- | 105 | ○ | ○ | ○ | 16 | 105 | 26 | 56 | 34 | 85 | 50 | 40 | 70~80 | M10 | 4.4 | | | | | |
| | | 135 | △ | △ | △ | | | | | | | | | | | | 135 | 57 | 4.7 | | |
| | | 165 | △ | △ | △ | | | | | | | | | | | | 165 | 62 | | 5.5 | |
| | HPC20- | 105 | ○ | ○ | ○ | 20 | 105 | 26 | 56 | 38 | 85 | 50 | 45 | 70~80 | M10 | 4.3 | | | | | |
| | | 135 | △ | △ | △ | | | | | | | | | | | | 135 | 57 | 4.7 | | |
| | | 165 | ○ | ○ | △ | | | | | | | | | | | | 165 | 62 | | 5.5 | |
| | HPC25- | 105 | ○ | ○ | ○ | 25 | 105 | 26 | 62 | 44 | 100 | 50 | 50 | 77~90 | M18 | 4.4 | | | | | |
| | | 135 | △ | △ | △ | | | | | | | | | | | | 135 | 62 | 4.8 | | |
| | | 165 | ○ | ○ | △ | | | | | | | | | | | | 165 | 72 | | 5.7 | |
| | | 200 | △ | △ | △ | | | | | | | | | | | | 200 | - | 6.6 | | |
| | 250 | △注4 | - | △ | 250 | - | 7.8 | | | | | | | | | | | | | | |
| | HPC32- | 105 | ○ | ○ | ○ | 32 | 105 | 27.5 | 70 | 52 | 117 | 53 | 55 | 55 | 94~107 | M18 | 4.4 | | | | |
| | | 135 | △ | △ | △ | | | | | | | | | | | | | 135 | 70 | 5.0 | |
| | | 165 | ○ | ○ | △ | | | | | | | | | | | | | 165 | 75 | | 5.6 |
| | | 200 | △ | △ | △ | | | | | | | | | | | | | 200 | | 7.2 | |
| | | 250 | △注4 | - | △ | | | | | | | | | | | | | 250 | | | |
| | 300 | △注4 | - | △ | 300 | 10.3 | | | | | | | | | | | | | | | |
| | HPC42- | 110 | ○ | ○ | ○ | 42 | 110 | 30.5 | 82 | 62 | 122 | 57 | 60 | 60 | 99~112 | M18 | 4.6 | | | | |
| | | 135 | △ | △ | △ | | | | | | | | | | | | | 135 | 80 | 5.3 | |
| | | 165 | ○ | ○ | △ | | | | | | | | | | | | | 165 | | | 82 |
| | | 200 | △ | △ | △ | | | | | | | | | | | | | 200 | 8.3 | | |

△: 受注生産品

- 注: 1. チャックレンチ, 調整ネジは付属しておりません。
 2. センタースルーにてご使用の際は、付属のOリングを内径奥の溝に入れてからご使用下さい。
 3. 表記の許容回転数は、機械の剛性と刃物のバランスに大きく左右されますので、表記中の回転数と異なる場合があります。
 4. L寸法が200ミリ以上のものの振れ精度は口元5μm、3D先8μmとなります。

△: Mark tools are manufactured to order.

- NOTE: 1. Chuck wrench and adjust screw are sold separately.
 2. Insert the O-ring included in the box to the groove of the ID for thru-the-tool use.
 3. The above-mentioned maximum speed will vary depending rigidity of the machine and balance of cutter.
 An adequate cutting condition should be selected for each case.
 4. If L dimension is 200mm or more, the runnout accuracy is 5μm at chuck nose and 8μm at 3D point.
 5. Mark "H2" in the dimension table indicates the minimum cutting tool insertion amount,
 Mark "F" indicates adjustment amount, Mark "ST" indicates Thru-the-groove Coolant Available,
 and Mark "CT" indicates Central-thru-tool Coolant Available.

| ご注文例 ORDERING EXAMPLE | |
|-----------------------|-----------------------|
| ① | BT30 - HPC 16 - 100 A |
| ② | Shank Size |
| ③ | Holder's Name |
| ④ | Cutter's Shank Dia. |
| ⑤ | G.L. Length |
| ⑥ | Grade |



アクセサリ ACCESSORIES

▶ P.41 コレット STRAIGHT COLLETS



アクセサリ ACCESSORIES

▶ P.42 調整ネジ・チャックレンチ ADJUST SCREW, CHUCK WRENCH

マイクロンチャック(ミーリングチャック)用アクセサリ

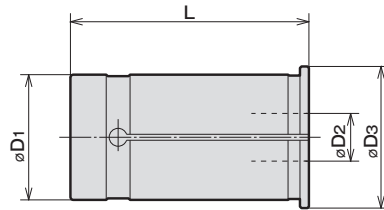
ACCESSORIES for MICRON CHUCK (Milling Chuck)



ストレートコレット

STRAIGHT COLLET

SC^①-^②D₃



| CODE | | ϕD_3 | L |
|---|------------------------|------------|----|
| SC ^① - ^② D ₃ | | | |
| SC16 | -6·8·10·12 | 20 | 47 |
| SC20 | -6·8·10·12·16 | 23.5 | 50 |
| SC25 | -6·8·10·12·16·20 | 30 | 60 |
| SC32 | -6·8·10·12·16·20·25 | 37.5 | 70 |
| SC42 | -6·8·10·12·16·20·25·32 | 47.5 | 80 |

ご注文例 ORDERING EXAMPLE

① SC ② 16 - ③ 6

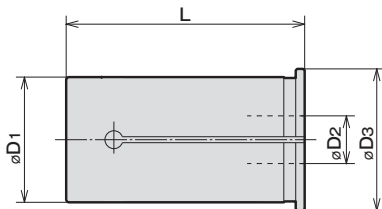
| | |
|------------------|----------------|
| ① 呼称 | Name |
| ② D ₁ | D ₁ |
| ③ D ₂ | D ₂ |



ストレートコレット(オイルホールタイプ)

STRAIGHT COLLET (Oil-Hole Type)

SCOH^①-^②D₃



| CODE | ϕD_3 | L | 最小挿入量 | |
|---|------------|------|-------|----|
| SCOH ^① - ^② D ₃ | | | | |
| SCOH20 | -6 | 23.5 | 54.5 | 27 |
| | -8 | | | 30 |
| | -10 | | | 34 |
| | -12 | | | 35 |
| | -16 | | | 38 |
| SCOH25 | -6 | 30 | 60 | 27 |
| | -8 | | | 30 |
| | -10 | | | 32 |
| | -12 | | | 35 |
| | -16 | | | 38 |
| SCOH32 | -6 | 37.5 | 70 | 27 |
| | -8 | | | 30 |
| | -10 | | | 32 |
| | -12 | | | 35 |
| | -16 | | | 38 |
| | -20 | | | 40 |
| | -25 | | | 44 |

| CODE | ϕD_3 | L | 最小挿入量 | |
|---|------------|------|-------|----|
| SCOH ^① - ^② D ₃ | | | | |
| SCOH42 | -6 | 47.5 | 80 | 27 |
| | -8 | | | 30 |
| | -10 | | | 32 |
| | -12 | | | 35 |
| | -16 | | | 42 |
| | -20 | | | 45 |
| | -32 | | | 50 |

ご注文例 ORDERING EXAMPLE

① SCOH ② 32 - ③ 20

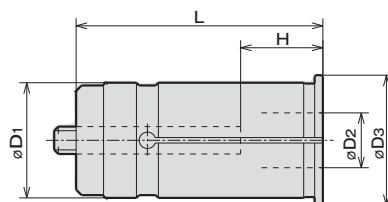
| | |
|------------------|----------------|
| ① 呼称 | Name |
| ② D ₁ | D ₁ |
| ③ D ₂ | D ₂ |



調整ネジ付ストレートコレット

STRAIGHT COLLET WITH ADJUST SCREW

NC^①-^②D₃



| CODE | NC ^① - ^② D ₃ | ϕD_3 | L | H | |
|------|---|------------|----|------|------|
| | | | | MIN. | MAX. |
| NC20 | -6·8·10·12·16 | 23.5 | 60 | 25 | 35 |
| NC32 | -6·8·10 | 37.5 | 80 | 20 | 45 |
| | -12·16·20·25 | | | 25 | 55 |
| NC42 | -6·8·10·12 | 47.5 | 90 | 20 | 45 |
| | -16·20·25·32 | | | 30 | 65 |

注: 全SHOWAチャック用
NOTE: Applicable to Micron chucks and Hard chucks.

ご注文例 ORDERING EXAMPLE

① NC ② 32 - ③ 6

| | |
|------------------|----------------|
| ① 呼称 | Name |
| ② D ₁ | D ₁ |
| ③ D ₂ | D ₂ |

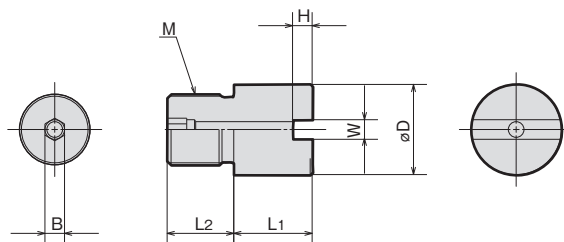
マイクロンチャック(ミーリングチャック)用アクセサリ

ACCESSORIES for MICRON CHUCK (Milling Chuck)



調整ネジ (BT・BBTシャंक マイクロンチャック専用)

ADJUST SCREW (For BT・BBT shank standard MICRON CHUCK)



| MODEL | CODE | øD | M | L1 | L2 | W | H | B | MICRON CHUCK |
|------------|-------|----|---------|----|----|---|-----|---|----------------|
| HAS1620-05 | 17602 | 15 | M10×1.0 | 5 | 14 | 5 | 3.5 | 5 | HPC16 HPC20 |
| HAS1620-15 | 17604 | | | 15 | | | | | |
| HAS1620-25 | 17606 | | | 25 | | | | | |
| HAS2532-10 | 17612 | 23 | M18×1.0 | 10 | 17 | 5 | 5 | 5 | HPC25 HPC32 |
| HAS2532-20 | 17614 | | | 20 | | | | | |
| HAS2532-35 | 17616 | | | 35 | | | | | |
| HAS4250-10 | 17622 | 33 | M18×1.0 | 10 | 17 | 5 | 5 | 5 | HPC42 HPC50 |
| HAS4250-20 | 17624 | | | 20 | | | | | |
| HAS4250-35 | 17626 | | | 35 | | | | | |

- 注: 1. チャック本体には付属しておりません。別途ご注文下さい。
 2. 特殊仕様については受注生産致しますので、刃具形状等をご連絡下さい。

NOTE : 1. The above Adjust Screws are sold separately.
 2. Above Adjust Screws can not be used for "H" and "M" series Micron Chucks.



チャックレンチ

CHUCK WRENCH



| フックスパナ HOOK SPANNER | | |
|------------------------|--------------------|-------|
| チャックコード CHUCK CODE | レンチコード WRENCH CODE | |
| マイクロンチャック MICRON CHUCK | | |
| HPC16,HPC20 | FS52-55G | 35852 |
| HPC25,HPC16S,HPC20S | FS58-62G | 35853 |
| HPC32,HPC25S | FS68-75G | 35854 |
| HPC42,HPC32S | FS80-90G | 35855 |

BT series

HSK series

ST series

Versatile Tool

Cutting Tool

Accessories

Data