

Inquiry about Zero Chip Taps

| | |
|------|--|
| Date | |
|------|--|

| | | | |
|----------|--|--|--|
| End User | | | |
| Dealer | | | |

| | | | | | |
|------------------------|---------|-------------|-----------------------------|-------|--|
| Size | | Full Length | | Limit | |
| Existing Tap | Maker | | Model/Specification | | |
| Requested tap material | Carbide | HSS | Requested surface treatment | | |

| | | | | | |
|-----------------|----------|--------------|--|----------|--|
| Machine type | | Coolant type | Water base | Oil base | MQL |
| Method | Vertical | Horizontal | Coolant pressure | | Mpa |
| Holder name | Maker | | Model/Specification | | |
| Collet Diameter | Φ | Adjust Bolt | Have | No | Any special attentions about the machine |
| Cap | Have | No | *Type of coolant spouts from the gap is NG | | |
| Sealing | Have | No | *If "Have", please take it off | | |

| | | | | | |
|----------------------------------|---|--------------|--------------------|---------|---|
| Material of work pieces/name | | Hardness | | Chamfer | P |
| Hole type | Blind hole | Through hole | blind/through hole | | |
| | Blind hole | Through hole | | | |
| The deepest hole depth | mm | mm | | | |
| The deepest effective hole depth | mm | mm | | | |
| Problem hope to solve | Chip remain Tap broken OH blocked Welding resistance Tool life UP Tapping speed UP Low cost | | | | |

| | | | |
|--------------------------|---|-------|--|
| TANOI MFG.CO.LTD. | | Staff | |
| Tap Selection | 1 | 2 | |

TANOI TANOI MFG.CO.,LTD.
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 E-mail: overseas@tanoi-mfg.co.jp
 http://www.tanoi-mfg.co.jp

ZC SERIES



Zerochip Tap

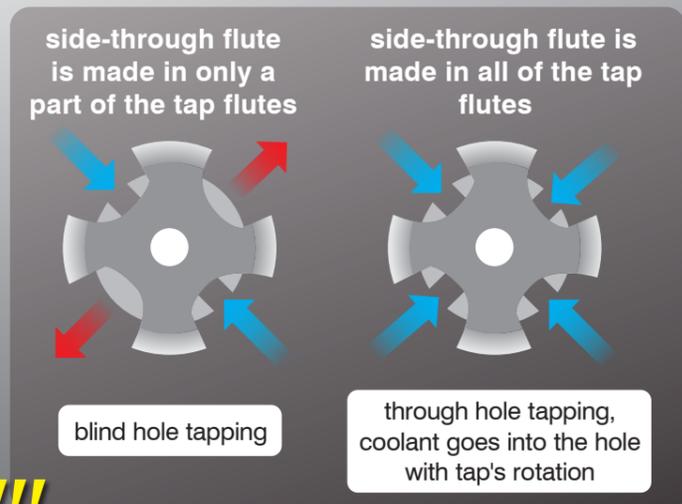
New Internal Coolant System which contributes to COST DOWN

Be awarded
 The 6th Manufacturing Japan grand prize.....
Minister of Economy special prize
 (manufacturing · production process section)
 The 10th Tokyo Venture Technology grand prize.....
Encouraging prize



Coolant strongly spouts out along the Side-through Flute

Expanded Zerochip Tap Series Lineup as Standard Items

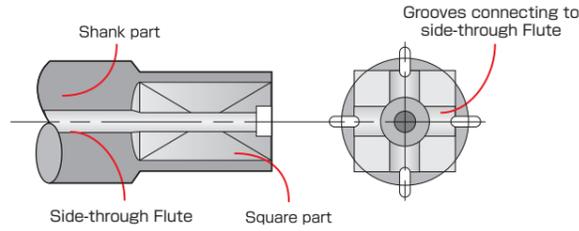
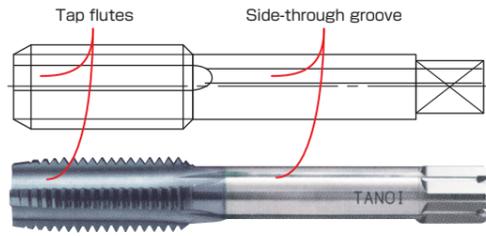


Chips Remain after tapping is "ZERO"!!!

Available for Mist Processing and be Friendly to the Environment

NEW INTERNAL COOLANT SYSTEM

A new construction which makes side-through flute in the SHANK



Problems usually happened using the conventional internal coolant system

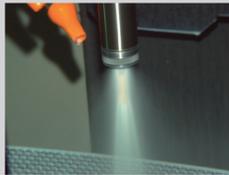
Side Oil Hole

- *At the beginning of processing, tapping is almost with a dry condition
- *OH diameter is small, thus, there is not enough coolant spout from OH
- *Chips ejection is not good
- *For a blind hole, it will block the chips ejection
- *To make so many OH in a tap, the cost is very high
- *Taps regrinding times is limited



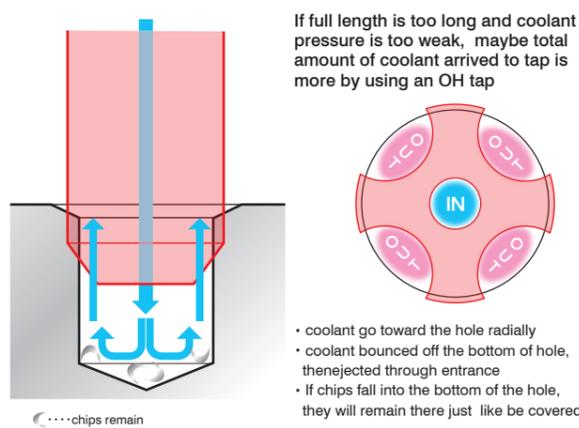
Collet Through(coolant spout from the gap)

- *Not available for blind hole tapping
- *A lot of coolant diffuse and only a few coolant will go into the drill hole
- *For a long shank tap, coolant effect will become lower
- *For taps size smaller than M7, drill hole diameter will be smaller than taps shank diameter, so the coolant is not effective



For blind hole tapping, there will be chips remain
 For through hole tapping, coolant effect is very low(even by using a side OH specification)
 For Aluminum processing, the OH will be blocked easily by the small chips
 For side OH, regrinding times is limited
 Tool cost is very high

Blind hole coolant movement (Center OH)



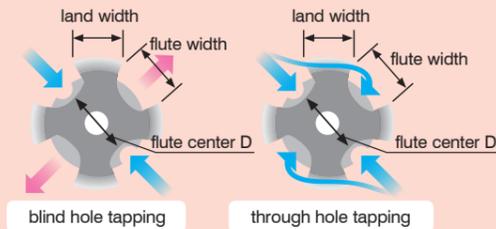
By using ZC-HT

- *Chips is strongly ejected from the beginning
- *For FC/ADC blind hole, very effective to chips ejection
- *Plenty of coolant spout out
- *Low cost by just adding the flute into a shank part
- *Easy to regrind, increased the regrinding times



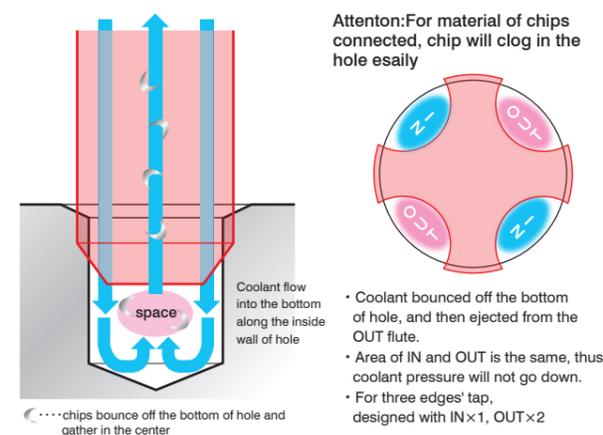
ZC-HT(used for both blind hole and through hole)

Chips will not remain easily after a blind hole tapping
 Even for a through hole tapping, coolant is effective



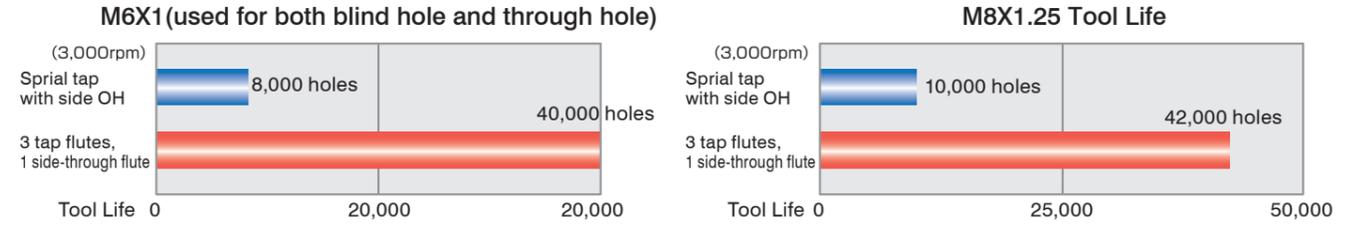
Chip not remain easily after a blind hole tapping
 Even for through hole tapping, high performance could be achieved
 Cooling · Lubrication · Chips Ejection
 performance is very high, tapping speed could be set with a higher level
 Easy to regrind, regrinding times is increased
 Tool cost is low

Blind hole coolant movement (ZC-HT)



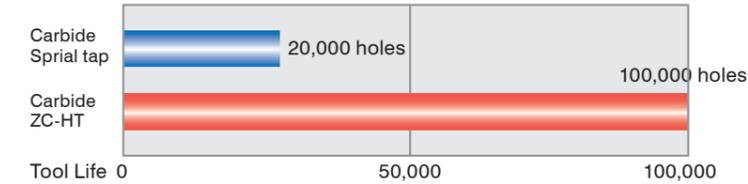
Successful cases which already used by customers

ADC case parts



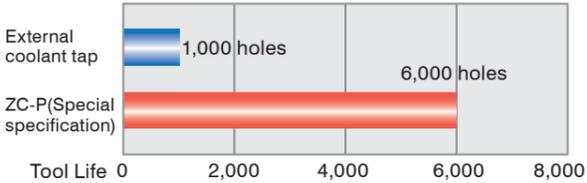
ADC brake parts

M10X1.5(used for both blind hole and through hole)



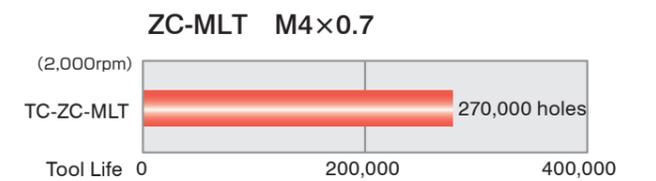
ADC case parts

PF1/8 External coolant→Internal coolant thread surface became beautiful



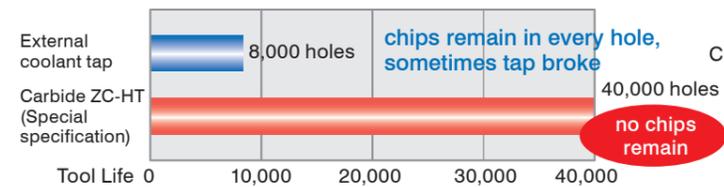
ADC case parts

Direct tapping into a molded hole



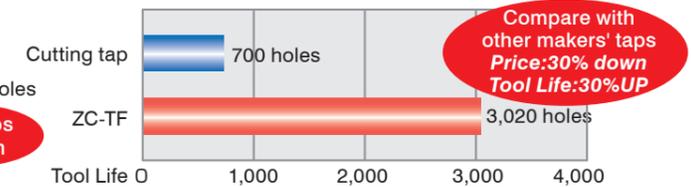
FCD differential case parts

M5x0.8 thread surface became beautiful



S48C steering parts

M16X1.5 (effective thread length 45mm)

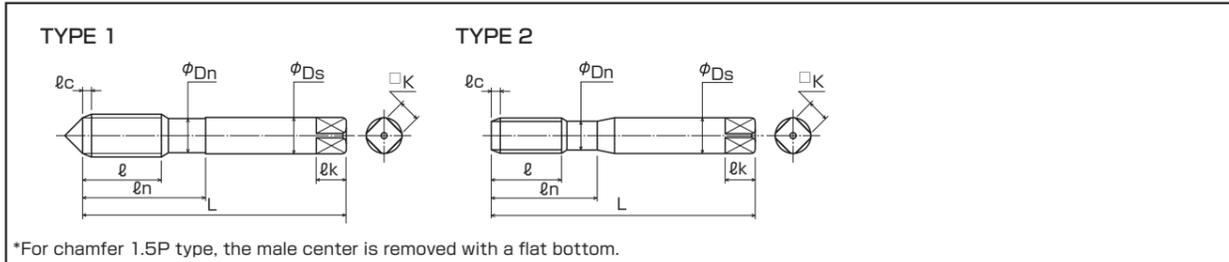


[Caution about the holder]

- You can use a normal collet holder
- For the following specifications, please kindly contact TANOI sales staff
 - *Model to hold the tap with a rubber or resin
 - *Spring collet of those number of divisions is too many(more than 8 divisions)
 - *Model discharged from the gap and the end face of the collet
 - *Model to hold the tap in the steel ball(such as tapper)
 - *Shrink fit holders
 - *For mist processing



Tapping video



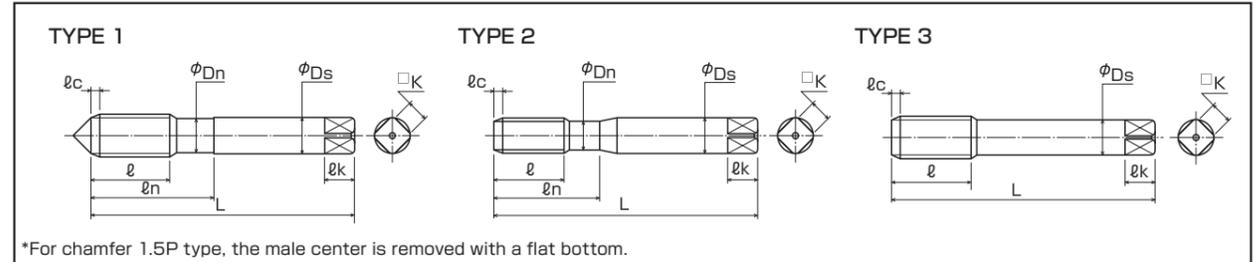
*For chamfer 1.5P type, the male center is removed with a flat bottom.

●メートルねじ用 Metric

単位 (Unit) : mm

| アイテム No. Item No. | 呼び Nominal size | 食付 ℓ_c | 精度 Limit | 形状 Type | 形状寸法 (mm) Dimensions | | | | | | | 溝数 Flutes | ZC溝数 ZC groove | 連結溝 Consolidated |
|----------------------|--------------------|----------------|-------------|------------|----------------------|--------|-------|----------|-------|-----|----------|--------------|-------------------|---------------------|
| | | | | | L | ℓ | D_s | ℓ_n | D_n | K | ℓ_k | | | |
| 41162 | M3 x 0.5 | 1.5P | GT5 | 1 | 100 | 11 | 4 | 18 | 2.4 | 3.2 | 6 | 3 | 1 | 有 |
| 41163 | M3 x 0.5 | 3P | GT5 | 1 | 100 | 11 | 4 | 18 | 2.4 | 3.2 | 6 | 3 | 3 | 有 |
| □ | M3 x 0.5 | 1.5P | GT5 | 1 | 70 | 11 | 4 | 18 | 2.4 | 3.2 | 6 | 3 | 1 | 有 |
| □ | M3 x 0.5 | 3P | GT5 | 1 | 70 | 11 | 4 | 18 | 2.4 | 3.2 | 6 | 3 | 3 | 有 |
| 41164 | M4 x 0.7 | 1.5P | GT6 | 1 | 100 | 13 | 5 | 20 | 3.1 | 4 | 7 | 3 | 1 | 有 |
| 41165 | M4 x 0.7 | 3P | GT6 | 1 | 100 | 13 | 5 | 20 | 3.1 | 4 | 7 | 3 | 3 | 有 |
| □ | M4 x 0.7 | 1.5P | GT6 | 1 | 70 | 13 | 5 | 20 | 3.1 | 4 | 7 | 3 | 1 | 有 |
| □ | M4 x 0.7 | 3P | GT6 | 1 | 70 | 13 | 5 | 20 | 3.1 | 4 | 7 | 3 | 3 | 有 |
| 41166 | M5 x 0.8 | 1.5P | GT6 | 2 | 100 | 16 | 5.5 | 25 | 4 | 4.5 | 7 | 3 | 1 | 有 |
| 41167 | M5 x 0.8 | 3P | GT6 | 2 | 100 | 16 | 5.5 | 25 | 4 | 4.5 | 7 | 3 | 3 | 有 |
| 41168 | M6 x 1 | 1.5P | GT6 | 2 | 100 | 19 | 6 | 30 | 4.8 | 4.5 | 7 | 3 | 1 | 有 |
| 41169 | M6 x 1 | 3P | GT6 | 2 | 100 | 19 | 6 | 30 | 4.8 | 4.5 | 7 | 3 | 3 | 有 |
| 41170 | M8 x 1.25 | 1.5P | GT6 | 2 | 100 | 22 | 8 | 40 | 6.2 | 6 | 9 | 3 | 1 | 有 |
| 41171 | M8 x 1.25 | 3P | GT6 | 2 | 100 | 22 | 8 | 40 | 6.2 | 6 | 9 | 3 | 3 | 有 |
| 41172 | M10 x 1.5 | 1.5P | GT7 | 2 | 100 | 24 | 8 | 39 | 7.8 | 6 | 9 | 4 | 2 | 有 |
| 41173 | M10 x 1.5 | 3P | GT7 | 2 | 100 | 24 | 8 | 39 | 7.8 | 6 | 9 | 4 | 4 | 有 |
| 41174 | M10 x 1.25 | 1.5P | GT6 | 2 | 100 | 24 | 8 | 39 | 7.8 | 6 | 9 | 4 | 2 | 有 |
| 41175 | M10 x 1.25 | 3P | GT6 | 2 | 100 | 24 | 8 | 39 | 7.8 | 6 | 9 | 4 | 4 | 有 |
| 41176 | M12 x 1.75 | 1.5P | GT7 | 2 | 100 | 29 | 10 | 43 | 9.8 | 8 | 11 | 4 | 2 | 有 |
| 41177 | M12 x 1.75 | 3P | GT7 | 2 | 100 | 29 | 10 | 43 | 9.8 | 8 | 11 | 4 | 4 | 有 |
| 41178 | M12 x 1.5 | 1.5P | GT7 | 2 | 100 | 29 | 10 | 43 | 9.8 | 8 | 11 | 4 | 2 | 有 |
| 41179 | M12 x 1.5 | 3P | GT7 | 2 | 100 | 29 | 10 | 43 | 9.8 | 8 | 11 | 4 | 4 | 有 |
| 41180 | M12 x 1.25 | 1.5P | GT7 | 2 | 100 | 29 | 10 | 43 | 9.8 | 8 | 11 | 4 | 2 | 有 |
| 41181 | M12 x 1.25 | 3P | GT7 | 2 | 100 | 29 | 10 | 43 | 9.8 | 8 | 11 | 4 | 4 | 有 |
| □ | M14 x 2 | 1.5P | GT7 | 2 | 100 | 30 | 10.5 | 49 | 10.3 | 8 | 11 | 4 | 2 | 有 |
| □ | M14 x 2 | 3P | GT7 | 2 | 100 | 30 | 10.5 | 49 | 10.3 | 8 | 11 | 4 | 4 | 有 |
| □ | M14 x 1.5 | 1.5P | GT7 | 2 | 100 | 30 | 10.5 | 49 | 10.3 | 8 | 11 | 4 | 2 | 有 |
| □ | M14 x 1.5 | 3P | GT7 | 2 | 100 | 30 | 10.5 | 49 | 10.3 | 8 | 11 | 4 | 4 | 有 |
| □ | M16 x 2 | 1.5P | GT7 | 2 | 100 | 32 | 12.5 | 52 | 12.3 | 10 | 13 | 4 | 2 | 有 |
| □ | M16 x 2 | 3P | GT7 | 2 | 100 | 32 | 12.5 | 52 | 12.3 | 10 | 13 | 4 | 4 | 有 |
| □ | M16 x 1.5 | 1.5P | GT7 | 2 | 100 | 32 | 12.5 | 52 | 12.3 | 10 | 13 | 4 | 2 | 有 |
| □ | M16 x 1.5 | 3P | GT7 | 2 | 100 | 32 | 12.5 | 52 | 12.3 | 10 | 13 | 4 | 4 | 有 |
| □ | M18 x 2.5 | 1.5P | GT7 | 2 | 120 | 37 | 14 | 56 | 13.8 | 11 | 14 | 4 | 2 | 有 |
| □ | M18 x 2.5 | 3P | GT7 | 2 | 120 | 37 | 14 | 56 | 13.8 | 11 | 14 | 4 | 4 | 有 |
| □ | M18 x 1.5 | 1.5P | GT7 | 2 | 120 | 37 | 14 | 56 | 13.8 | 11 | 14 | 4 | 2 | 有 |
| □ | M18 x 1.5 | 3P | GT7 | 2 | 120 | 37 | 14 | 56 | 13.8 | 11 | 14 | 4 | 4 | 有 |
| □ | M20 x 2.5 | 1.5P | GT8 | 2 | 120 | 37 | 15 | 57 | 14.8 | 12 | 15 | 4 | 2 | 有 |
| □ | M20 x 2.5 | 3P | GT8 | 2 | 120 | 37 | 15 | 57 | 14.8 | 12 | 15 | 4 | 4 | 有 |
| □ | M20 x 1.5 | 1.5P | GT7 | 2 | 120 | 37 | 15 | 57 | 14.8 | 12 | 15 | 4 | 2 | 有 |
| □ | M20 x 1.5 | 3P | GT7 | 2 | 120 | 37 | 15 | 57 | 14.8 | 12 | 15 | 4 | 4 | 有 |
| □ | M24 x 3 | 1.5P | GT8 | 2 | 120 | 45 | 19 | 67 | 18.8 | 15 | 18 | 4 | 2 | 有 |
| □ | M24 x 3 | 3P | GT8 | 2 | 120 | 45 | 19 | 67 | 18.8 | 15 | 18 | 4 | 4 | 有 |
| □ | M24 x 1.5 | 1.5P | GT7 | 2 | 120 | 45 | 19 | 67 | 18.8 | 15 | 18 | 4 | 2 | 有 |
| □ | M24 x 1.5 | 3P | GT7 | 2 | 120 | 45 | 19 | 67 | 18.8 | 15 | 18 | 4 | 4 | 有 |

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- Blade shape has been set for the ADC/FC/FCD. If you wish to use in steel and stainless steel, please contact us.



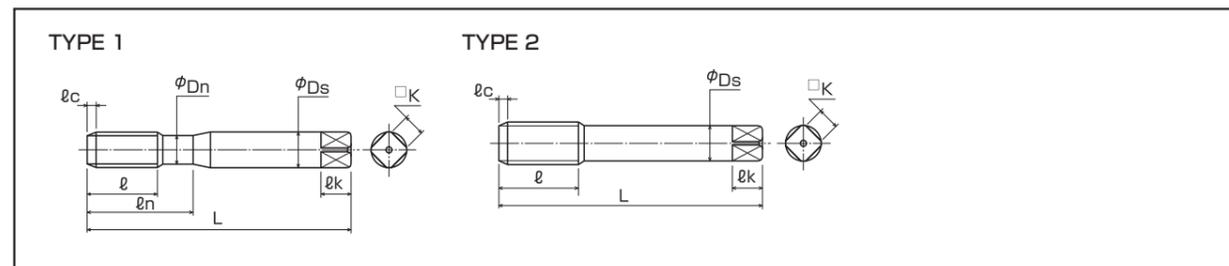
*For chamfer 1.5P type, the male center is removed with a flat bottom.

●メートルねじ用 Metric

単位 (Unit) : mm

| アイテム No. Item No. | 呼び Nominal size | 食付 ℓ_c | 精度 Limit | 形状 Type | 形状寸法 (mm) Dimensions | | | | | | | 溝数 Flutes | ZC溝数 ZC groove | 連結溝 Consolidated |
|----------------------|--------------------|----------------|-------------|------------|----------------------|--------|-------|----------|-------|-----|----------|--------------|-------------------|---------------------|
| | | | | | L | ℓ | D_s | ℓ_n | D_n | K | ℓ_k | | | |
| 81600 | M3 x 0.5 | 1.5P | GT5 | 1 | 100 | 11 | 4 | 18 | 2.4 | 3.2 | 6 | 3 | 1 | 有 |
| 81601 | M3 x 0.5 | 3P | GT5 | 1 | 100 | 11 | 4 | 18 | 2.4 | 3.2 | 6 | 3 | 3 | 有 |
| □ | M3 x 0.5 | 1.5P | GT5 | 1 | 70 | 11 | 4 | 18 | 2.4 | 3.2 | 6 | 3 | 1 | 有 |
| □ | M3 x 0.5 | 3P | GT5 | 1 | 70 | 11 | 4 | 18 | 2.4 | 3.2 | 6 | 3 | 3 | 有 |
| 81602 | M4 x 0.7 | 1.5P | GT6 | 1 | 100 | 13 | 5 | 20 | 3.1 | 4 | 7 | 3 | 1 | 有 |
| 81603 | M4 x 0.7 | 3P | GT6 | 1 | 100 | 13 | 5 | 20 | 3.1 | 4 | 7 | 3 | 3 | 有 |
| □ | M4 x 0.7 | 1.5P | GT6 | 1 | 70 | 13 | 5 | 20 | 3.1 | 4 | 7 | 3 | 1 | 有 |
| □ | M4 x 0.7 | 3P | GT6 | 1 | 70 | 13 | 5 | 20 | 3.1 | 4 | 7 | 3 | 3 | 有 |
| 81604 | M5 x 0.8 | 1.5P | GT6 | 2 | 100 | 16 | 5.5 | 25 | 4 | 4.5 | 7 | 3 | 1 | 有 |
| 81605 | M5 x 0.8 | 3P | GT6 | 2 | 100 | 16 | 5.5 | 25 | 4 | 4.5 | 7 | 3 | 3 | 有 |
| 81606 | M6 x 1 | 1.5P | GT6 | 2 | 100 | 19 | 6 | 30 | 4.8 | 4.5 | 7 | 3 | 1 | 有 |
| 81607 | M6 x 1 | 3P | GT6 | 2 | 100 | 19 | 6 | 30 | 4.8 | 4.5 | 7 | 3 | 3 | 有 |
| 81608 | M8 x 1.25 | 1.5P | GT6 | 2 | 100 | 22 | 8 | 40 | 6.2 | 6 | 9 | 3 | 1 | 有 |
| 81609 | M8 x 1.25 | 3P | GT6 | 2 | 100 | 22 | 8 | 40 | 6.2 | 6 | 9 | 3 | 3 | 有 |
| 81610 | M10 x 1.5 | 1.5P | GT7 | 3 | 100 | 24 | 8 | — | — | 6 | 9 | 4 | 2 | 有 |
| 81611 | M10 x 1.5 | 3P | GT7 | 3 | 100 | 24 | 8 | — | — | 6 | 9 | 4 | 4 | 有 |
| 81612 | M10 x 1.25 | 1.5P | GT6 | 3 | 100 | 24 | 8 | — | — | 6 | 9 | 4 | 2 | 有 |
| 81613 | M10 x 1.25 | 3P | GT6 | 3 | 100 | 24 | 8 | — | — | 6 | 9 | 4 | 4 | 有 |
| 81614 | M12 x 1.75 | 1.5P | GT7 | 2 | 100 | 29 | 10 | 43 | 9.8 | 8 | 11 | 4 | 2 | 有 |
| 81615 | M12 x 1.75 | 3P | GT7 | 2 | 100 | 29 | 10 | 43 | 9.8 | 8 | 11 | 4 | 4 | 有 |
| 81616 | M12 x 1.5 | 1.5P | GT7 | 2 | 100 | 29 | 10 | 43 | 9.8 | 8 | 11 | 4 | 2 | 有 |
| 81617 | M12 x 1.5 | 3P | GT7 | 2 | 100 | 29 | 10 | 43 | 9.8 | 8 | 11 | 4 | 4 | 有 |
| 81618 | M12 x 1.25 | 1.5P | GT7 | 2 | 100 | 29 | 10 | 43 | 9.8 | 8 | 11 | 4 | 2 | 有 |
| 81619 | M12 x 1.25 | 3P | GT7 | 2 | 100 | 29 | 10 | 43 | 9.8 | 8 | 11 | 4 | 4 | 有 |

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単位(Unit): mm

| アイテム No. Item No. | 呼び Nominal size | 食付 ℓ_c | 精度 Limit | 形状 Type | 形状寸法 (mm) Dimensions | | | | | | | 溝数 Flutes | ZC溝数 ZC groove | 連結溝 Consolidated |
|--------------------------|--------------------|----------------|-------------|------------|----------------------|--------|-----|----------|-----|-----|----------|--------------|-------------------|---------------------|
| | | | | | L | ℓ | Ds | ℓ_n | Dn | K | ℓ_k | | | |
| <input type="checkbox"/> | M3 × 0.5 | 1.5P | GT5 | 1 | 70 | 11 | 4 | 18 | 2.4 | 3.2 | 6 | 3 | 1 | 有 |
| <input type="checkbox"/> | M3 × 0.5 | 3P | GT5 | 1 | 70 | 11 | 4 | 18 | 2.4 | 3.2 | 6 | 3 | 3 | 有 |
| <input type="checkbox"/> | M4 × 0.7 | 1.5P | GT6 | 1 | 70 | 13 | 5 | 20 | 3.1 | 4 | 7 | 3 | 1 | 有 |
| <input type="checkbox"/> | M4 × 0.7 | 3P | GT6 | 1 | 70 | 13 | 5 | 20 | 3.1 | 4 | 7 | 3 | 3 | 有 |
| <input type="checkbox"/> | M5 × 0.8 | 1.5P | GT6 | 1 | 100 | 16 | 5.5 | 25 | 4 | 4.5 | 7 | 3 | 1 | 有 |
| <input type="checkbox"/> | M5 × 0.8 | 3P | GT6 | 1 | 100 | 16 | 5.5 | 25 | 4 | 4.5 | 7 | 3 | 3 | 有 |
| <input type="checkbox"/> | M6 × 1 | 1.5P | GT6 | 1 | 100 | 19 | 6 | 30 | 4.8 | 4.5 | 7 | 3 | 1 | 有 |
| <input type="checkbox"/> | M6 × 1 | 3P | GT6 | 1 | 100 | 19 | 6 | 30 | 4.8 | 4.5 | 7 | 3 | 3 | 有 |
| <input type="checkbox"/> | M8 × 1.25 | 1.5P | GT6 | 1 | 100 | 22 | 8 | 40 | 6.2 | 6 | 9 | 3 | 1 | 有 |
| <input type="checkbox"/> | M8 × 1.25 | 3P | GT6 | 1 | 100 | 22 | 8 | 40 | 6.2 | 6 | 9 | 3 | 3 | 有 |
| <input type="checkbox"/> | M10 × 1.5 | 1.5P | GT7 | 1 | 100 | 24 | 8 | 39 | 7.8 | 6 | 9 | 4 | 2 | 有 |
| <input type="checkbox"/> | M10 × 1.5 | 3P | GT7 | 1 | 100 | 24 | 8 | 39 | 7.8 | 6 | 9 | 4 | 4 | 有 |
| <input type="checkbox"/> | M10 × 1.25 | 1.5P | GT6 | 1 | 100 | 24 | 8 | 39 | 7.8 | 6 | 9 | 4 | 2 | 有 |
| <input type="checkbox"/> | M10 × 1.25 | 3P | GT6 | 1 | 100 | 24 | 8 | 39 | 7.8 | 6 | 9 | 4 | 4 | 有 |
| <input type="checkbox"/> | M12 × 1.75 | 1.5P | GT7 | 1 | 100 | 29 | 10 | 43 | 9.8 | 8 | 11 | 4 | 2 | 有 |
| <input type="checkbox"/> | M12 × 1.75 | 3P | GT7 | 1 | 100 | 29 | 10 | 43 | 9.8 | 8 | 11 | 4 | 4 | 有 |
| <input type="checkbox"/> | M12 × 1.5 | 1.5P | GT7 | 1 | 100 | 29 | 10 | 43 | 9.8 | 8 | 11 | 4 | 2 | 有 |
| <input type="checkbox"/> | M12 × 1.5 | 3P | GT7 | 1 | 100 | 29 | 10 | 43 | 9.8 | 8 | 11 | 4 | 4 | 有 |
| <input type="checkbox"/> | M12 × 1.25 | 1.5P | GT7 | 1 | 100 | 29 | 10 | 43 | 9.8 | 8 | 11 | 4 | 2 | 有 |
| <input type="checkbox"/> | M12 × 1.25 | 3P | GT7 | 1 | 100 | 29 | 10 | 43 | 9.8 | 8 | 11 | 4 | 4 | 有 |

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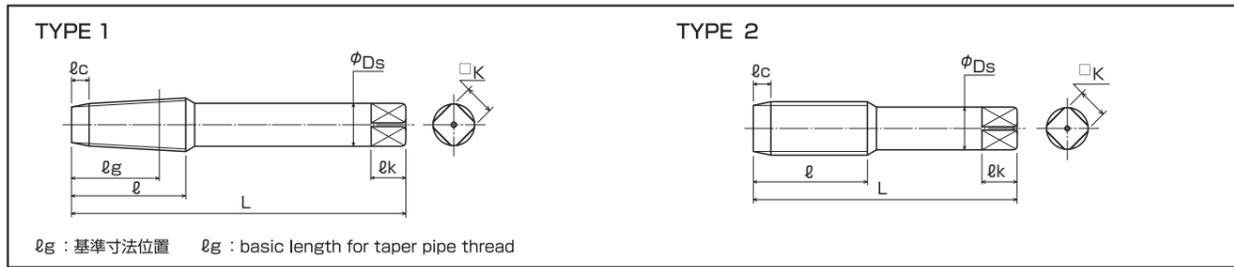
単位(Unit): mm

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|--------------------------|--------------------|----------------|-------------|------------|----------------------|--------|-----|----------|-----|-----|----------|--------------|-------------------|---------------------|
| | | | | | L | ℓ | Ds | ℓ_n | Dn | K | ℓ_k | | | |
| <input type="checkbox"/> | M3 × 0.5 | 1.5P | GT5 | 1 | 70 | 11 | 4 | 18 | 2.4 | 3.2 | 6 | 3 | 1 | 有 |
| <input type="checkbox"/> | M3 × 0.5 | 3P | GT5 | 1 | 70 | 11 | 4 | 18 | 2.4 | 3.2 | 6 | 3 | 3 | 有 |
| <input type="checkbox"/> | M4 × 0.7 | 1.5P | GT6 | 1 | 70 | 13 | 5 | 20 | 3.1 | 4 | 7 | 3 | 1 | 有 |
| <input type="checkbox"/> | M4 × 0.7 | 3P | GT6 | 1 | 70 | 13 | 5 | 20 | 3.1 | 4 | 7 | 3 | 3 | 有 |
| <input type="checkbox"/> | M5 × 0.8 | 1.5P | GT6 | 1 | 100 | 16 | 5.5 | 25 | 4 | 4.5 | 7 | 3 | 1 | 有 |
| <input type="checkbox"/> | M5 × 0.8 | 3P | GT6 | 1 | 100 | 16 | 5.5 | 25 | 4 | 4.5 | 7 | 3 | 3 | 有 |
| <input type="checkbox"/> | M6 × 1 | 1.5P | GT6 | 1 | 100 | 19 | 6 | 30 | 4.8 | 4.5 | 7 | 3 | 1 | 有 |
| <input type="checkbox"/> | M6 × 1 | 3P | GT6 | 1 | 100 | 19 | 6 | 30 | 4.8 | 4.5 | 7 | 3 | 3 | 有 |
| <input type="checkbox"/> | M8 × 1.25 | 1.5P | GT6 | 1 | 100 | 22 | 8 | 40 | 6.2 | 6 | 9 | 3 | 1 | 有 |
| <input type="checkbox"/> | M8 × 1.25 | 3P | GT6 | 1 | 100 | 22 | 8 | 40 | 6.2 | 6 | 9 | 3 | 3 | 有 |
| <input type="checkbox"/> | M10 × 1.5 | 1.5P | GT7 | 2 | 100 | 24 | 8 | - | - | 6 | 9 | 4 | 2 | 有 |
| <input type="checkbox"/> | M10 × 1.5 | 3P | GT7 | 2 | 100 | 24 | 8 | - | - | 6 | 9 | 4 | 4 | 有 |
| <input type="checkbox"/> | M10 × 1.25 | 1.5P | GT6 | 2 | 100 | 24 | 8 | - | - | 6 | 9 | 4 | 2 | 有 |
| <input type="checkbox"/> | M10 × 1.25 | 3P | GT6 | 2 | 100 | 24 | 8 | - | - | 6 | 9 | 4 | 4 | 有 |
| <input type="checkbox"/> | M12 × 1.75 | 1.5P | GT7 | 1 | 100 | 29 | 10 | 43 | 8.3 | 8 | 11 | 4 | 2 | 有 |
| <input type="checkbox"/> | M12 × 1.75 | 3P | GT7 | 1 | 100 | 29 | 10 | 43 | 8.3 | 8 | 11 | 4 | 4 | 有 |
| <input type="checkbox"/> | M12 × 1.5 | 1.5P | GT7 | 1 | 100 | 29 | 10 | 43 | 8.3 | 8 | 11 | 4 | 2 | 有 |
| <input type="checkbox"/> | M12 × 1.5 | 3P | GT7 | 1 | 100 | 29 | 10 | 43 | 8.3 | 8 | 11 | 4 | 4 | 有 |
| <input type="checkbox"/> | M12 × 1.25 | 1.5P | GT7 | 1 | 100 | 29 | 10 | 43 | 8.3 | 8 | 11 | 4 | 2 | 有 |
| <input type="checkbox"/> | M12 × 1.25 | 3P | GT7 | 1 | 100 | 29 | 10 | 43 | 8.3 | 8 | 11 | 4 | 4 | 有 |

• This symbol indicates that the products stocked by specific distributors. For details, please contact us.



Tapping video



●管用ねじ用 Parallel / Taper Pipe Thread

単位 (Unit) : mm

| アイテム No. Item No. | 呼び Nominal size | 食付 ℓ_c | 精度 Limit | 形状 Type | 形状寸法 (mm) Dimensions | | | | | | | 溝数 Flutes | ZC溝数 ZC groove | 連結溝 Consolidated |
|----------------------|--------------------|----------------|-------------|------------|----------------------|--------|-------|----------|-------|----|----------|--------------|-------------------|---------------------|
| | | | | | L | ℓ | D_s | ℓ_g | D_n | K | ℓ_k | | | |
| 18028 | PT1/8-28 | 2.5P | JIS II | 1 | 100 | 19 | 8 | 13 | | 6 | 9 | 4 | 4 | 有 |
| 18029 | PT1/4-19 | 2.5P | JIS II | 1 | 100 | 28 | 11 | 21 | | 9 | 12 | 4 | 4 | 有 |
| 18030 | PT3/8-19 | 2.5P | JIS II | 1 | 100 | 28 | 14 | 21 | | 11 | 14 | 4 | 4 | 有 |
| □ | PT1/2-14 | 2.5P | JIS II | 1 | 100 | 35 | 18 | 25 | | 14 | 17 | 4 | 4 | 有 |
| 18031 | PS1/8-28 | 1.5P | JIS II | 2 | 100 | 19 | 8 | | | 6 | 9 | 4 | 2 | 有 |
| 18032 | PS1/8-28 | 3P | JIS II | 2 | 100 | 19 | 8 | | | 6 | 9 | 4 | 4 | 有 |
| 18033 | PS1/4-19 | 1.5P | JIS II | 2 | 100 | 28 | 11 | | | 9 | 12 | 4 | 2 | 有 |
| 18034 | PS1/4-19 | 3P | JIS II | 2 | 100 | 28 | 11 | | | 9 | 12 | 4 | 4 | 有 |
| 18035 | PS3/8-19 | 1.5P | JIS II | 2 | 100 | 28 | 14 | | | 11 | 14 | 4 | 2 | 有 |
| 18036 | PS3/8-19 | 3P | JIS II | 2 | 100 | 28 | 14 | | | 11 | 14 | 4 | 4 | 有 |
| □ | PS1/2-14 | 1.5P | JIS II | 2 | 100 | 35 | 18 | | | 14 | 17 | 4 | 2 | 有 |
| □ | PS1/2-14 | 3P | JIS II | 2 | 100 | 35 | 18 | | | 14 | 17 | 4 | 4 | 有 |

- This symbol indicates that the products stocked by specific distributors. For details, please contact us.
- Blade shape has been set for the ADC/FC/FCD.
If you wish to use in steel and stainless steel, please contact us.

Coming Soon!!



Tapping video

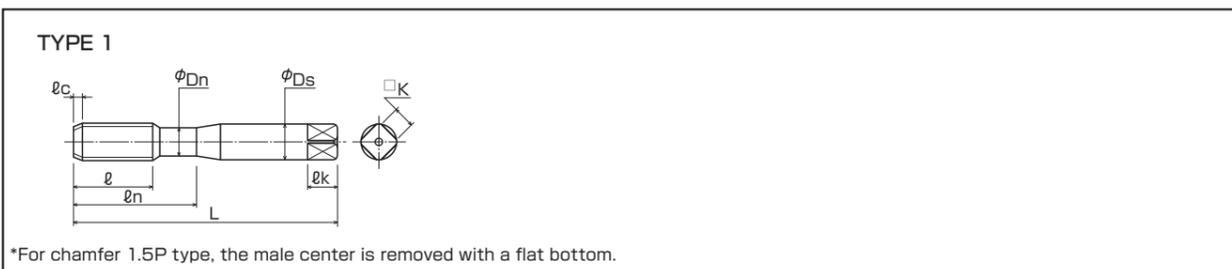


●メートルねじ用 Metric

単位 (Unit) : mm

| アイテム No. Item No. | 呼び Nominal size | 食付 ℓ_c | 精度 Limit | 形状 Type | 形状寸法 (mm) Dimensions | | | | | | | 溝数 Flutes | ZC溝数 ZC groove | 連結溝 Consolidated |
|----------------------|--------------------|----------------|-------------|------------|----------------------|--------|-------|----------|-------|-----|----------|--------------|-------------------|---------------------|
| | | | | | L | ℓ | D_s | ℓ_n | D_n | K | ℓ_k | | | |
| □ | M6 × 1 | 5P | GT6 | 1 | 100 | 10 | 6 | 30 | 4.8 | 4.5 | 7 | 3 | 3 | 有 |
| □ | M8 × 1.25 | 5P | GT7 | 1 | 100 | 15 | 8 | 40 | 6.2 | 6 | 9 | 3 | 3 | 有 |
| □ | M10 × 1.5 | 5P | GT7 | 1 | 100 | 18 | 8 | 39 | 7.8 | 6 | 9 | 3 | 3 | 有 |
| □ | M10 × 1.25 | 5P | GT7 | 1 | 100 | 18 | 8 | 39 | 7.8 | 6 | 9 | 3 | 3 | 有 |
| □ | M12 × 1.75 | 5P | GT8 | 1 | 100 | 21 | 10 | 43 | 8.3 | 8 | 11 | 3 | 3 | 有 |
| □ | M12 × 1.5 | 5P | GT8 | 1 | 100 | 21 | 10 | 43 | 8.3 | 8 | 11 | 3 | 3 | 有 |
| □ | M12 × 1.25 | 5P | GT8 | 1 | 100 | 21 | 10 | 43 | 8.3 | 8 | 11 | 3 | 3 | 有 |

- This symbol indicates that the products stocked by specific distributors. For details, please contact us.
- Blade shape has been set for middle high carbon steel.
If you wish to use in mild steel and stainless steel, please contact us.



●メートルねじ用 Metric

単位(Unit): mm

| アイテム No. Item No. | 呼び Nominal size | 食付 ℓ_c | 精度 Limit | 形状 Type | 形状寸法 (mm) Dimensions | | | | | | | 溝数 Flutes | ZC溝数 ZC groove | 連結溝 Consolidated |
|----------------------|--------------------|----------------|-------------|------------|----------------------|--------|-----|----------|-----|-----|----------|--------------|-------------------|---------------------|
| | | | | | L | ℓ | Ds | ℓ_n | Dn | K | ℓ_k | | | |
| 18008 | M3 × 0.5 | 1.5P | 5 | 1 | 100 | 10 | 4 | 18 | 2.4 | 3.2 | 6 | 4 | 2 | 有 |
| □ | M3 × 0.5 | 1.5P | 6 | 1 | 100 | 10 | 4 | 18 | 2.4 | 3.2 | 6 | 4 | 2 | 有 |
| □ | M3 × 0.5 | 1.5P | 7 | 1 | 100 | 10 | 4 | 18 | 2.4 | 3.2 | 6 | 4 | 2 | 有 |
| 18009 | M3 × 0.5 | P | 5 | 1 | 100 | 10 | 4 | 18 | 2.4 | 3.2 | 6 | 4 | 2 | 有 |
| □ | M3 × 0.5 | P | 6 | 1 | 100 | 10 | 4 | 18 | 2.4 | 3.2 | 6 | 4 | 2 | 有 |
| □ | M3 × 0.5 | P | 7 | 1 | 100 | 10 | 4 | 18 | 2.4 | 3.2 | 6 | 4 | 2 | 有 |
| 18010 | M4 × 0.7 | 1.5P | 6 | 1 | 100 | 10 | 5 | 20 | 3.1 | 4 | 7 | 4 | 2 | 有 |
| □ | M4 × 0.7 | 1.5P | 7 | 1 | 100 | 10 | 5 | 20 | 3.1 | 4 | 7 | 4 | 2 | 有 |
| □ | M4 × 0.7 | 1.5P | 8 | 1 | 100 | 10 | 5 | 20 | 3.1 | 4 | 7 | 4 | 2 | 有 |
| 18011 | M4 × 0.7 | P | 6 | 1 | 100 | 10 | 5 | 20 | 3.1 | 4 | 7 | 4 | 2 | 有 |
| □ | M4 × 0.7 | P | 7 | 1 | 100 | 10 | 5 | 20 | 3.1 | 4 | 7 | 4 | 2 | 有 |
| □ | M4 × 0.7 | P | 8 | 1 | 100 | 10 | 5 | 20 | 3.1 | 4 | 7 | 4 | 2 | 有 |
| 18012 | M5 × 0.8 | 1.5P | 6 | 1 | 100 | 10 | 5.5 | 25 | 4 | 4.5 | 7 | 4 | 2 | 有 |
| □ | M5 × 0.8 | 1.5P | 7 | 1 | 100 | 10 | 5.5 | 25 | 4 | 4.5 | 7 | 4 | 2 | 有 |
| □ | M5 × 0.8 | 1.5P | 8 | 1 | 100 | 10 | 5.5 | 25 | 4 | 4.5 | 7 | 4 | 2 | 有 |
| 18013 | M5 × 0.8 | P | 6 | 1 | 100 | 10 | 5.5 | 25 | 4 | 4.5 | 7 | 4 | 2 | 有 |
| □ | M5 × 0.8 | P | 7 | 1 | 100 | 10 | 5.5 | 25 | 4 | 4.5 | 7 | 4 | 2 | 有 |
| □ | M5 × 0.8 | P | 8 | 1 | 100 | 10 | 5.5 | 25 | 4 | 4.5 | 7 | 4 | 2 | 有 |
| 18014 | M6 × 1 | 1.5P | 7 | 1 | 100 | 10 | 6 | 30 | 4.6 | 4.5 | 7 | 4 | 2 | 有 |
| □ | M6 × 1 | 1.5P | 8 | 1 | 100 | 10 | 6 | 30 | 4.6 | 4.5 | 7 | 4 | 2 | 有 |
| □ | M6 × 1 | 1.5P | 9 | 1 | 100 | 10 | 6 | 30 | 4.6 | 4.5 | 7 | 4 | 2 | 有 |
| 18015 | M6 × 1 | P | 7 | 1 | 100 | 10 | 6 | 30 | 4.6 | 4.5 | 7 | 4 | 2 | 有 |
| □ | M6 × 1 | P | 8 | 1 | 100 | 10 | 6 | 30 | 4.6 | 4.5 | 7 | 4 | 2 | 有 |
| □ | M6 × 1 | P | 9 | 1 | 100 | 10 | 6 | 30 | 4.6 | 4.5 | 7 | 4 | 2 | 有 |
| 18016 | M8 × 1.25 | 1.5P | 7 | 1 | 100 | 18 | 8 | 40 | 6 | 6 | 9 | 6 | 3 | 有 |
| □ | M8 × 1.25 | 1.5P | 8 | 1 | 100 | 18 | 8 | 40 | 6 | 6 | 9 | 6 | 3 | 有 |
| □ | M8 × 1.25 | 1.5P | 9 | 1 | 100 | 18 | 8 | 40 | 6 | 6 | 9 | 6 | 3 | 有 |
| 18017 | M8 × 1.25 | P | 7 | 1 | 100 | 18 | 8 | 40 | 6 | 6 | 9 | 6 | 3 | 有 |
| □ | M8 × 1.25 | P | 8 | 1 | 100 | 18 | 8 | 40 | 6 | 6 | 9 | 6 | 3 | 有 |
| □ | M8 × 1.25 | P | 9 | 1 | 100 | 18 | 8 | 40 | 6 | 6 | 9 | 6 | 3 | 有 |
| 18018 | M10 × 1.5 | 1.5P | 7 | 1 | 100 | 19 | 8 | 39 | 7.8 | 6 | 9 | 8 | 4 | 有 |
| □ | M10 × 1.5 | 1.5P | 8 | 1 | 100 | 19 | 8 | 39 | 7.8 | 6 | 9 | 8 | 4 | 有 |
| □ | M10 × 1.5 | 1.5P | 9 | 1 | 100 | 19 | 8 | 39 | 7.8 | 6 | 9 | 8 | 4 | 有 |
| 18019 | M10 × 1.5 | P | 7 | 1 | 100 | 19 | 8 | 39 | 7.8 | 6 | 9 | 8 | 4 | 有 |
| □ | M10 × 1.5 | P | 8 | 1 | 100 | 19 | 8 | 39 | 7.8 | 6 | 9 | 8 | 4 | 有 |
| □ | M10 × 1.5 | P | 9 | 1 | 100 | 19 | 8 | 39 | 7.8 | 6 | 9 | 8 | 4 | 有 |
| 18020 | M10 × 1.25 | 1.5P | 7 | 1 | 100 | 19 | 8 | 39 | 7.8 | 6 | 9 | 8 | 4 | 有 |
| □ | M10 × 1.25 | 1.5P | 8 | 1 | 100 | 19 | 8 | 39 | 7.8 | 6 | 9 | 8 | 4 | 有 |
| □ | M10 × 1.25 | 1.5P | 9 | 1 | 100 | 19 | 8 | 39 | 7.8 | 6 | 9 | 8 | 4 | 有 |
| 18021 | M10 × 1.25 | P | 7 | 1 | 100 | 19 | 8 | 39 | 7.8 | 6 | 9 | 8 | 4 | 有 |
| □ | M10 × 1.25 | P | 8 | 1 | 100 | 19 | 8 | 39 | 7.8 | 6 | 9 | 8 | 4 | 有 |
| □ | M10 × 1.25 | P | 9 | 1 | 100 | 19 | 8 | 39 | 7.8 | 6 | 9 | 8 | 4 | 有 |

▶次頁へ続く Continued to next page

●メートルねじ用 Metric

単位(Unit): mm

| アイテム No. Item No. | 呼び Nominal size | 食付 ℓ_c | 精度 Limit | 形状 Type | 形状寸法 (mm) Dimensions | | | | | | | 溝数 Flutes | ZC溝数 ZC groove | 連結溝 Consolidated |
|----------------------|--------------------|----------------|-------------|------------|----------------------|--------|----|----------|-----|---|----------|--------------|-------------------|---------------------|
| | | | | | L | ℓ | Ds | ℓ_n | Dn | K | ℓ_k | | | |
| □ | M12 × 1.75 | 1.5P | 8 | 1 | 100 | 19 | 10 | 43 | 9.8 | 8 | 11 | 8 | 4 | 有 |
| 18022 | M12 × 1.75 | 1.5P | 10 | 1 | 100 | 19 | 10 | 43 | 9.8 | 8 | 11 | 8 | 4 | 有 |
| □ | M12 × 1.75 | 1.5P | 12 | 1 | 100 | 19 | 10 | 43 | 9.8 | 8 | 11 | 8 | 4 | 有 |
| □ | M12 × 1.75 | P | 8 | 1 | 100 | 19 | 10 | 43 | 9.8 | 8 | 11 | 8 | 4 | 有 |
| 18023 | M12 × 1.75 | P | 10 | 1 | 100 | 19 | 10 | 43 | 9.8 | 8 | 11 | 8 | 4 | 有 |
| □ | M12 × 1.75 | P | 12 | 1 | 100 | 19 | 10 | 43 | 9.8 | 8 | 11 | 8 | 4 | 有 |
| □ | M12 × 1.5 | 1.5P | 8 | 1 | 100 | 19 | 10 | 43 | 9.8 | 8 | 11 | 8 | 4 | 有 |
| 18024 | M12 × 1.5 | 1.5P | 10 | 1 | 100 | 19 | 10 | 43 | 9.8 | 8 | 11 | 8 | 4 | 有 |
| □ | M12 × 1.5 | 1.5P | 12 | 1 | 100 | 19 | 10 | 43 | 9.8 | 8 | 11 | 8 | 4 | 有 |
| □ | M12 × 1.5 | P | 8 | 1 | 100 | 19 | 10 | 43 | 9.8 | 8 | 11 | 8 | 4 | 有 |
| 18025 | M12 × 1.5 | P | 10 | 1 | 100 | 19 | 10 | 43 | 9.8 | 8 | 11 | 8 | 4 | 有 |
| □ | M12 × 1.5 | P | 12 | 1 | 100 | 19 | 10 | 43 | 9.8 | 8 | 11 | 8 | 4 | 有 |
| □ | M12 × 1.25 | 1.5P | 8 | 1 | 100 | 19 | 10 | 43 | 9.8 | 8 | 11 | 8 | 4 | 有 |
| □ | M12 × 1.25 | 1.5P | 10 | 1 | 100 | 19 | 10 | 43 | 9.8 | 8 | 11 | 8 | 4 | 有 |
| 18026 | M12 × 1.25 | 1.5P | 12 | 1 | 100 | 19 | 10 | 43 | 9.8 | 8 | 11 | 8 | 4 | 有 |
| □ | M12 × 1.25 | P | 8 | 1 | 100 | 19 | 10 | 43 | 9.8 | 8 | 11 | 8 | 4 | 有 |
| □ | M12 × 1.25 | P | 10 | 1 | 100 | 19 | 10 | 43 | 9.8 | 8 | 11 | 8 | 4 | 有 |
| 18027 | M12 × 1.25 | P | 12 | 1 | 100 | 19 | 10 | 43 | 9.8 | 8 | 11 | 8 | 4 | 有 |

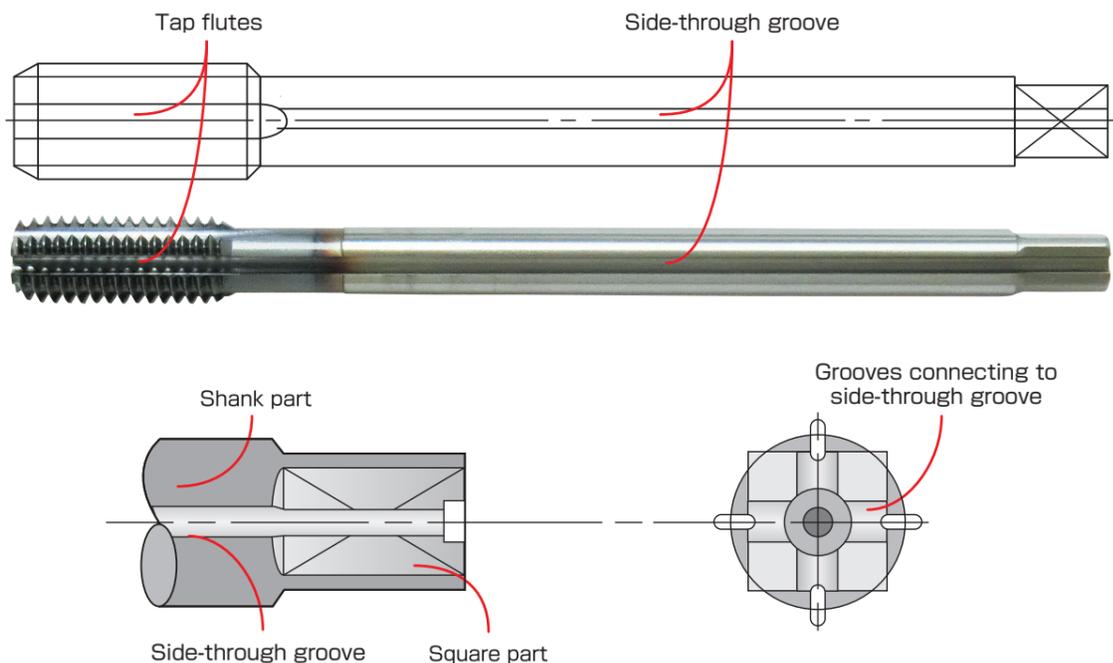
- The recommended tap limit in corresponds to JIS Class 2 internal thread standard.
- □ This symbol indicates that the products stocked by specific distributors. For details, please contact us.



Tapping video

NEW INTERNAL COOLANT SYSTEM

A new construction which makes side-through flute in the SHANK



Problems usually happened using the conventional internal coolant system

Side Oil Hole

- *At the beginning of processing, tapping is also with a dry condition
- *OH diameter is small, thus, there is not enough coolant spout from OH
- *Chips ejection is not good
- *For a blind hole, it will block the chips ejection
- *To make so many OH in a tap, the cost is very high
- *Taps regrinding times is limited



Collet Through(coolant spout from the gap)

- *Not available for blind hole tapping
- *A lot of coolant diffuse and only a few coolant will go into the drill hole
- *For a long shank tap, coolant effect will become lower
- *For taps size smaller than M7, drill hole diameter will be smaller than taps shank diameter, so the coolant is not effective



For through hole, coolant effect is very low(even by using side OH specification)

For Aluminum processing, the OH will be blocked easily by the small chips

Tool cost is very high

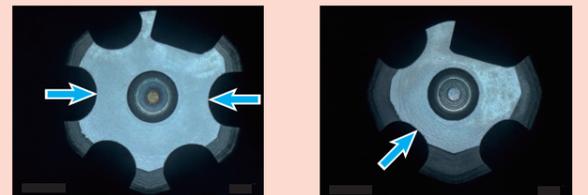
By using ZC-HT

- *Chips is strongly ejected from the beginning
- *Plenty of coolant spout out
- *Low cost by just adding the flute into a shank part



ZC-HT(used for both blind hole and through hole)

Chips will not remain after a blind hole tapping
Even for a through hole tapping, coolant is effective



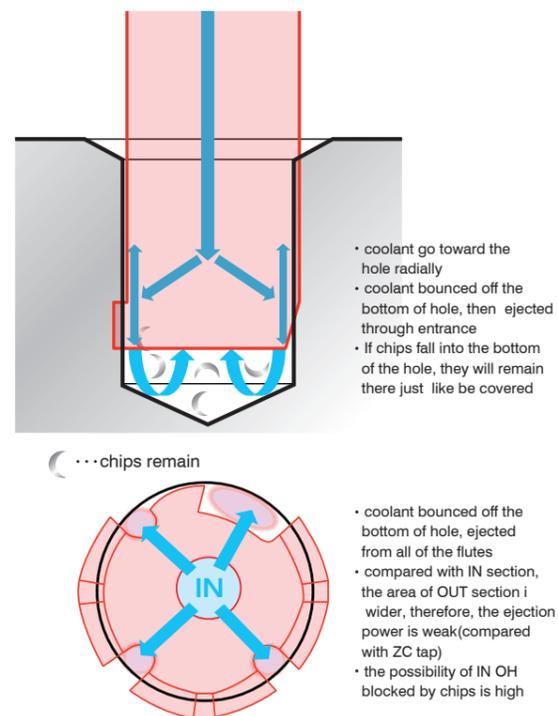
→ zero chip tap series side-through flute position(for both blind/through hole)

Even for through hole tapping, high performance could be achieved

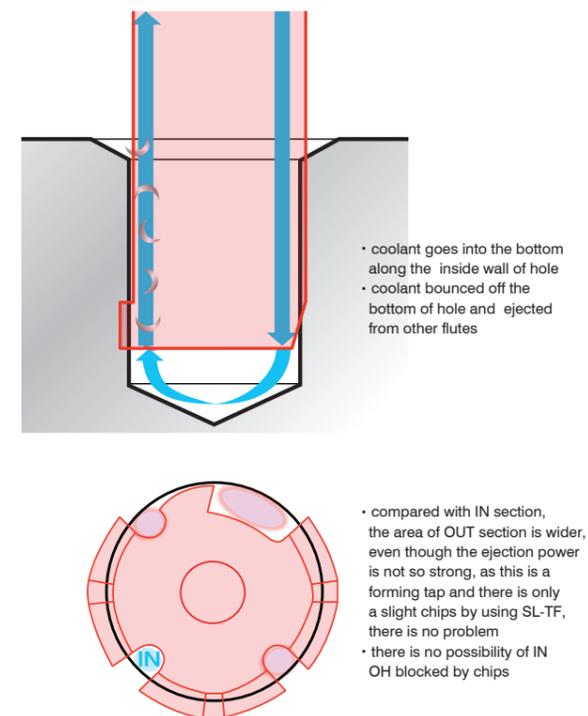
Cooling · Lubrication · Chips Ejection performance is very high, tapping speed could be set with a higher level

Tool cost is low

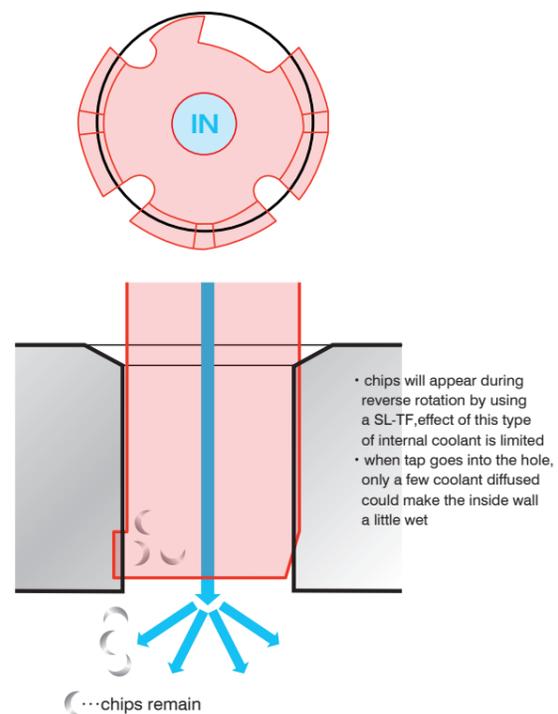
Blind hole coolant movement (Center OH Seamless Taplet)



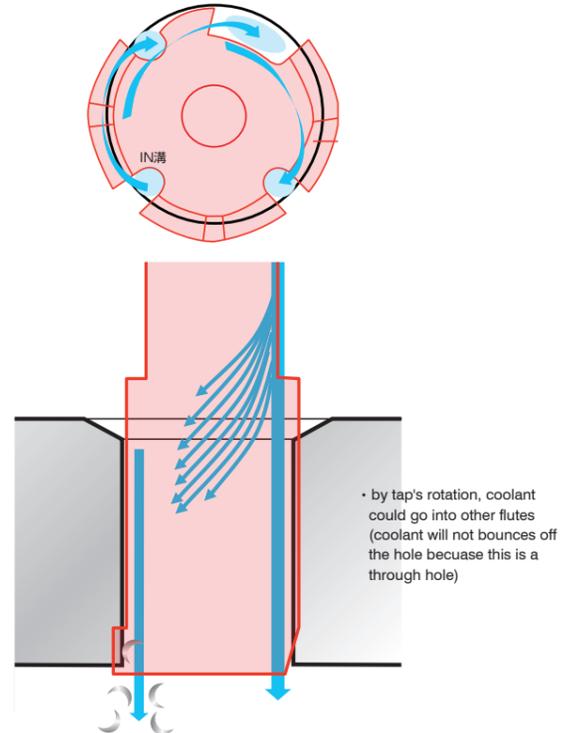
Blind hole coolant movement (Zero Chip Seamless Taplet)



Through hole coolant movement (Center OH Seamless Taplet)



Through hole coolant movement (Zero Chip Seamless Taplet)

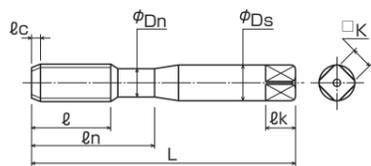


[Caution about the holder]

- You can use a normal collet holder
- For the following specifications, please kindly contact TANOI sales staff
 - *Model to hold the tap with a rubber or resin
 - *Spring collet of those number of divisions is too many(more than 8 divisions)
 - *Model discharged from the gap and the end face of the collet
 - *Model to hold the tap in the steel ball(such as tapper)
 - *Shrink fit holders
 - *For mist processing



TYPE 1



*For chamfer 1.5P type, the male center is removed with a flat bottom.

●メートルねじ用 Metric

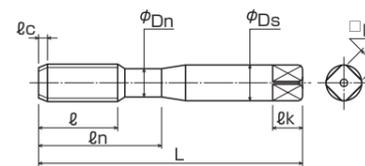
単位(Unit): mm

| アイテム No. Item No. | 呼び Nominal size | 食付 ϕc | 精度 Limit | 形状 Type | 形状寸法 (mm) Dimensions | | | | | | | 溝数 Flutes | ZC溝数 ZC groove | 連結溝 Consolidated |
|----------------------|--------------------|----------------|-------------|------------|----------------------|--------|-------|----------|-------|-----|----------|--------------|-------------------|---------------------|
| | | | | | L | ℓ | D_s | ℓ_n | D_n | K | ϕk | | | |
| 18058 | M3 × 0.5 | 1.5P | 5 | 1 | 100 | 10 | 4 | 18 | 2.3 | 3.2 | 6 | 4 | 1 | 有 |
| □ | M3 × 0.5 | 1.5P | 6 | 1 | 100 | 10 | 4 | 18 | 2.3 | 3.2 | 6 | 4 | 1 | 有 |
| □ | M3 × 0.5 | 1.5P | 7 | 1 | 100 | 10 | 4 | 18 | 2.3 | 3.2 | 6 | 4 | 1 | 有 |
| 18059 | M4 × 0.7 | 1.5P | 6 | 1 | 100 | 10 | 5 | 20 | 3 | 4 | 7 | 4 | 1 | 有 |
| □ | M4 × 0.7 | 1.5P | 7 | 1 | 100 | 10 | 5 | 20 | 3 | 4 | 7 | 4 | 1 | 有 |
| □ | M4 × 0.7 | 1.5P | 8 | 1 | 100 | 10 | 5 | 20 | 3 | 4 | 7 | 4 | 1 | 有 |
| 18060 | M5 × 0.8 | 1.5P | 6 | 1 | 100 | 10 | 5.5 | 25 | 3.9 | 4.5 | 7 | 4 | 1 | 有 |
| □ | M5 × 0.8 | 1.5P | 7 | 1 | 100 | 10 | 5.5 | 25 | 3.9 | 4.5 | 7 | 4 | 1 | 有 |
| □ | M5 × 0.8 | 1.5P | 8 | 1 | 100 | 10 | 5.5 | 25 | 3.9 | 4.5 | 7 | 4 | 1 | 有 |
| 18061 | M6 × 1 | 1.5P | 7 | 1 | 100 | 10 | 6 | 30 | 4.6 | 4.5 | 7 | 4 | 1 | 有 |
| □ | M6 × 1 | 1.5P | 8 | 1 | 100 | 10 | 6 | 30 | 4.6 | 4.5 | 7 | 4 | 1 | 有 |
| □ | M6 × 1 | 1.5P | 9 | 1 | 100 | 10 | 6 | 30 | 4.6 | 4.5 | 7 | 4 | 1 | 有 |
| 18063 | M8 × 1.25 | 1.5P | 7 | 1 | 100 | 18 | 8 | 40 | 6.2 | 6 | 9 | 6 | 2 | 有 |
| □ | M8 × 1.25 | 1.5P | 8 | 1 | 100 | 18 | 8 | 40 | 6.2 | 6 | 9 | 6 | 2 | 有 |
| □ | M8 × 1.25 | 1.5P | 9 | 1 | 100 | 18 | 8 | 40 | 6.2 | 6 | 9 | 6 | 2 | 有 |
| 18064 | M10 × 1.5 | 1.5P | 7 | 1 | 100 | 19 | 8 | 39 | 7.8 | 6 | 9 | 6 | 2 | 有 |
| □ | M10 × 1.5 | 1.5P | 8 | 1 | 100 | 19 | 8 | 39 | 7.8 | 6 | 9 | 6 | 2 | 有 |
| □ | M10 × 1.5 | 1.5P | 9 | 1 | 100 | 19 | 8 | 39 | 7.8 | 6 | 9 | 6 | 2 | 有 |
| 18065 | M10 × 1.25 | 1.5P | 7 | 1 | 100 | 19 | 8 | 39 | 7.8 | 6 | 9 | 6 | 2 | 有 |
| □ | M10 × 1.25 | 1.5P | 8 | 1 | 100 | 19 | 8 | 39 | 7.8 | 6 | 9 | 6 | 2 | 有 |
| □ | M10 × 1.25 | 1.5P | 9 | 1 | 100 | 19 | 8 | 39 | 7.8 | 6 | 9 | 6 | 2 | 有 |
| 18066 | M10 × 1 | 1.5P | 7 | 1 | 100 | 19 | 8 | 39 | 7.8 | 6 | 9 | 6 | 2 | 有 |
| □ | M10 × 1 | 1.5P | 8 | 1 | 100 | 19 | 8 | 39 | 7.8 | 6 | 9 | 6 | 2 | 有 |
| □ | M10 × 1 | 1.5P | 9 | 1 | 100 | 19 | 8 | 39 | 7.8 | 6 | 9 | 6 | 2 | 有 |
| □ | M12 × 1.75 | 1.5P | 8 | 1 | 100 | 19 | 10 | 43 | 9.8 | 8 | 11 | 6 | 2 | 有 |
| 18067 | M12 × 1.75 | 1.5P | 10 | 1 | 100 | 19 | 10 | 43 | 9.8 | 8 | 11 | 6 | 2 | 有 |
| □ | M12 × 1.75 | 1.5P | 12 | 1 | 100 | 19 | 10 | 43 | 9.8 | 8 | 11 | 6 | 2 | 有 |
| □ | M12 × 1.5 | 1.5P | 8 | 1 | 100 | 19 | 10 | 43 | 9.8 | 8 | 11 | 6 | 2 | 有 |
| 18068 | M12 × 1.5 | 1.5P | 10 | 1 | 100 | 19 | 10 | 43 | 9.8 | 8 | 11 | 6 | 2 | 有 |
| □ | M12 × 1.5 | 1.5P | 12 | 1 | 100 | 19 | 10 | 43 | 9.8 | 8 | 11 | 6 | 2 | 有 |
| □ | M12 × 1.25 | 1.5P | 8 | 1 | 100 | 19 | 10 | 43 | 9.8 | 8 | 11 | 6 | 2 | 有 |
| □ | M12 × 1.25 | 1.5P | 10 | 1 | 100 | 19 | 10 | 43 | 9.8 | 8 | 11 | 6 | 2 | 有 |
| 18069 | M12 × 1.25 | 1.5P | 12 | 1 | 100 | 19 | 10 | 43 | 9.8 | 8 | 11 | 6 | 2 | 有 |

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- □ This symbol indicates that the products stocked by specific distributors. For details, please contact us.

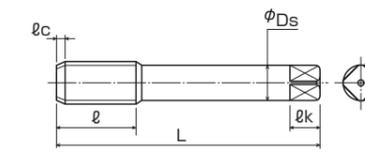


TYPE 1



*For chamfer 1.5P type, the male center is removed with a flat bottom.

TYPE 4



●メートルねじ用 Metric

単位(Unit): mm

| アイテム No. Item No. | 呼び Nominal size | 食付 ϕc | 精度 Limit | 形状 Type | 形状寸法 (mm) Dimensions | | | | | | | 溝数 Flutes | ZC溝数 ZC groove | 連結溝 Consolidated |
|----------------------|--------------------|----------------|-------------|------------|----------------------|--------|-------|----------|-------|-----|----------|--------------|-------------------|---------------------|
| | | | | | L | ℓ | D_s | ℓ_n | D_n | K | ϕk | | | |
| 81628 | M3 × 0.5 | 1.5P | 5 | 1 | 70 | 10 | 4 | 18 | 2.4 | 3.2 | 6 | 4 | 1 | 有 |
| □ | M3 × 0.5 | 1.5P | 6 | 1 | 70 | 10 | 4 | 18 | 2.4 | 3.2 | 6 | 4 | 1 | 有 |
| □ | M3 × 0.5 | 1.5P | 7 | 1 | 70 | 10 | 4 | 18 | 2.4 | 3.2 | 6 | 4 | 1 | 有 |
| 81629 | M4 × 0.7 | 1.5P | 6 | 1 | 70 | 10 | 5 | 20 | 3.1 | 4 | 7 | 4 | 1 | 有 |
| □ | M4 × 0.7 | 1.5P | 7 | 1 | 70 | 10 | 5 | 20 | 3.1 | 4 | 7 | 4 | 1 | 有 |
| □ | M4 × 0.7 | 1.5P | 8 | 1 | 70 | 10 | 5 | 20 | 3.1 | 4 | 7 | 4 | 1 | 有 |
| 81630 | M5 × 0.8 | 1.5P | 6 | 1 | 100 | 10 | 5.5 | 25 | 4 | 4.5 | 7 | 4 | 1 | 有 |
| □ | M5 × 0.8 | 1.5P | 7 | 1 | 100 | 10 | 5.5 | 25 | 4 | 4.5 | 7 | 4 | 1 | 有 |
| □ | M5 × 0.8 | 1.5P | 8 | 1 | 100 | 10 | 5.5 | 25 | 4 | 4.5 | 7 | 4 | 1 | 有 |
| 81631 | M6 × 1 | 1.5P | 7 | 1 | 100 | 10 | 6 | 30 | 4.6 | 4.5 | 7 | 4 | 1 | 有 |
| □ | M6 × 1 | 1.5P | 8 | 1 | 100 | 10 | 6 | 30 | 4.6 | 4.5 | 7 | 4 | 1 | 有 |
| □ | M6 × 1 | 1.5P | 9 | 1 | 100 | 10 | 6 | 30 | 4.6 | 4.5 | 7 | 4 | 1 | 有 |
| 81632 | M8 × 1.25 | 1.5P | 7 | 1 | 100 | 18 | 8 | 40 | 6.2 | 6 | 9 | 6 | 2 | 有 |
| □ | M8 × 1.25 | 1.5P | 8 | 1 | 100 | 18 | 8 | 40 | 6.2 | 6 | 9 | 6 | 2 | 有 |
| □ | M8 × 1.25 | 1.5P | 9 | 1 | 100 | 18 | 8 | 40 | 6.2 | 6 | 9 | 6 | 2 | 有 |
| 81633 | M10 × 1.5 | 1.5P | 7 | 2 | 100 | 19 | 8 | — | — | 6 | 9 | 6 | 2 | 有 |
| □ | M10 × 1.5 | 1.5P | 8 | 2 | 100 | 19 | 8 | — | — | 6 | 9 | 6 | 2 | 有 |
| □ | M10 × 1.5 | 1.5P | 9 | 2 | 100 | 19 | 8 | — | — | 6 | 9 | 6 | 2 | 有 |
| 81634 | M10 × 1.25 | 1.5P | 7 | 2 | 100 | 19 | 8 | — | — | 6 | 9 | 6 | 2 | 有 |
| □ | M10 × 1.25 | 1.5P | 8 | 2 | 100 | 19 | 8 | — | — | 6 | 9 | 6 | 2 | 有 |
| □ | M10 × 1.25 | 1.5P | 9 | 2 | 100 | 19 | 8 | — | — | 6 | 9 | 6 | 2 | 有 |
| 81635 | M10 × 1 | 1.5P | 7 | 2 | 100 | 19 | 8 | — | — | 6 | 9 | 6 | 2 | 有 |
| □ | M10 × 1 | 1.5P | 8 | 2 | 100 | 19 | 8 | — | — | 6 | 9 | 6 | 2 | 有 |
| □ | M10 × 1 | 1.5P | 9 | 2 | 100 | 19 | 8 | — | — | 6 | 9 | 6 | 2 | 有 |

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- □ This symbol indicates that the products stocked by specific distributors. For details, please contact us.



Tapping video