
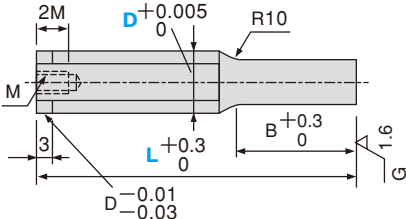
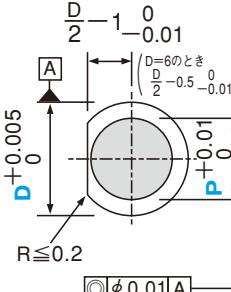


欠円タップ付 P-TiCN 処理パンチ

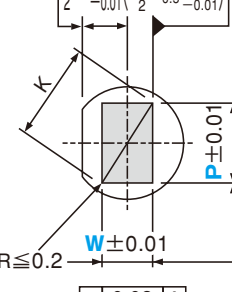



◎



$\frac{D}{2} - 1 - 0.01$
 $\left(\frac{D}{2} - 0.5 - 0.01\right)$
 $D + 0.005$
 $R \leq 0.2$
 $P \pm 0.01$
 $\phi 0.01 | A$

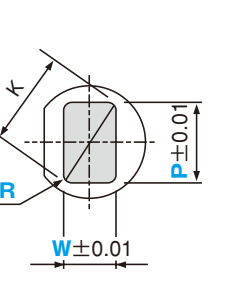
Ⓢ



$\frac{D}{2} - 1 - 0.01$
 $\left(\frac{D}{2} - 0.5 - 0.01\right)$
 $R \leq 0.2$
 $W \pm 0.01$
 $P \pm 0.01$
 $\equiv 0.02 | A$

$P \geq W$
 $R = 0$ の指定可
 $K = \sqrt{P^2 + W^2}$

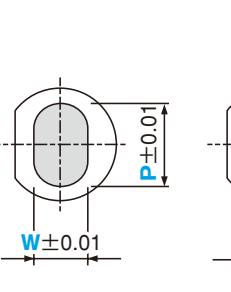
Ⓡ



R
 $W \pm 0.01$
 $P \pm 0.01$

$P \geq W$
 $0.15 \leq R < \frac{W}{2}$
 $K = \sqrt{(P - 2R)^2 + (W - 2R)^2} + 2R$

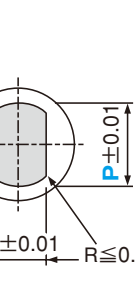
◎



$W \pm 0.01$
 $P \pm 0.01$

$P > W$

ⓕ



$W \pm 0.01$
 $P \pm 0.01$
 $R \leq 0.2$

$P > W$

◎ GH-TCPS · GH-TCPL · GH-TCPX **Ⓢ** GH-TSPS · GH-TSPL · GH-TSPX **Ⓡ** GH-TRPS · GH-TRPL · GH-TRPX
◎ GH-TOPS · GH-TOPL · GH-TOPX **ⓕ** GH-TFPS · GH-TFPL · GH-TFPX

材質 粉末ハイス鋼 硬度 64 ~ 67HRC · 表面 3000HV シャンク径 D 公差 $D_0^{+0.005}$





B 刃先長さ **Ⓢ** · **L** · **X** (刃先長さ B → X > L > S)

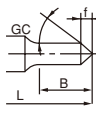



●規格仕様

| カタログ No. | D | L | | | | | | | | 指定 0.01mm 単位 | | | | B | M |
|------------------|----|-------|------|-------|---------------|---------------|---------------|-------|---|---|---|----|---|---|---|
| | | ◎ | Ⓢ | Ⓡ | ◎ | ⓕ | Ⓡ | ◎ | ⓕ | ◎ | Ⓡ | ⓕ | | | |
| 記号 | | min.P | max. | P · K | max. | W | max. | P · W | min. | R | | | | | |
| ◎ GH-TCPS | 6 | 40 | 50 | 60 | 70 | 80 | 2.00 ~ 3.80 | 5.97 | 3.80 | 1.50 | 0.15 ~ W/2 未 満 Ⓡ の み | 8 | 3 | | |
| Ⓢ GH-TSPS | 8 | (40) | 50 | 60 | 70 | 80 | 3.00 ~ 5.80 | 7.97 | 5.80 | 2.00 | | 13 | 4 | | |
| Ⓡ GH-TRPS | 10 | (40) | 50 | 60 | 70 | 80 | 3.00 ~ 7.80 | 9.97 | 7.80 | 2.50 | | 13 | 5 | | |
| ◎ GH-TOPS | 13 | (40) | 50 | 60 | 70 | 80 | 6.00 ~ 10.80 | 12.97 | 10.80 | 3.00 | | 19 | 6 | | |
| ⓕ GH-TFPS | 16 | (40) | 50 | 60 | 70 | 80 | 10.00 ~ 13.80 | 15.97 | 13.80 | 4.00 | | | | | |
| B 刃先長さ: Ⓢ | 20 | (40) | 50 | 60 | 70 | 80 | 13.00 ~ 17.80 | 19.97 | 17.80 | 5.00 | | 25 | 6 | | |
| | 25 | (40) | 50 | 60 | 70 | 80 | 18.00 ~ 22.80 | 24.97 | 22.80 | 6.00 | | | | | |
| ◎ GH-TCPL | 6 | 50 | 60 | 70 | 80 | 2.00 ~ 3.80 | 5.97 | 3.80 | 2.00 | 0.15 ~ W/2 未 満 Ⓡ の み | | 13 | 3 | | |
| Ⓢ GH-TSPL | 8 | 50 | 60 | 70 | 80 | 3.00 ~ 5.80 | 7.97 | 5.80 | 2.50 | | | 13 | 4 | | |
| Ⓡ GH-TRPL | 10 | 50 | 60 | 70 | 80 | 3.00 ~ 7.80 | 9.97 | 7.80 | 2.50 | | | 19 | 5 | | |
| ◎ GH-TOPL | 13 | 50 | 60 | 70 | 80 | 6.00 ~ 10.80 | 12.97 | 10.80 | 3.00 | | | 25 | 6 | | |
| ⓕ GH-TFPL | 16 | 60 | 70 | 80 | 90 | 10.00 ~ 13.80 | 15.97 | 13.80 | 4.00 | | | | | | |
| B 刃先長さ: L | 20 | 60 | 70 | 80 | 90 | 13.00 ~ 17.80 | 19.97 | 17.80 | 5.00 | | | 25 | 6 | | |
| | 25 | 60 | 70 | 80 | 90 | 18.00 ~ 22.80 | 24.97 | 22.80 | 6.00 | | | | | | |
| ◎ GH-TCPX | 6 | 60 | 70 | 80 | 2.00 ~ 3.80 | 5.97 | 4.80 | 3.50 | 0.15 ~ W/2 未 満 Ⓡ の み | | | 25 | 3 | | |
| Ⓢ GH-TSPX | 8 | 60 | 70 | 80 | 3.00 ~ 5.80 | 7.97 | 5.80 | 5.00 | | | 30 | 5 | | | |
| Ⓡ GH-TRPX | 10 | 60 | 70 | 80 | 3.00 ~ 7.80 | 9.97 | 7.80 | 5.00 | | | | | | | |
| ◎ GH-TOPX | 13 | 60 | 70 | 80 | 6.00 ~ 10.80 | 12.97 | 10.80 | 5.00 | | | 45 | 6 | | | |
| ⓕ GH-TFPX | 16 | 70 | 80 | 90 | 10.00 ~ 13.80 | — | — | — | | | | | | | |
| B 刃先長さ: X | 20 | 70 | 80 | 90 | 13.00 ~ 17.80 | — | — | — | | | | | | | |
| | 25 | 70 | 80 | 90 | 18.00 ~ 22.80 | — | — | — | | | | | | | |

①: L (40) → B = 8 全長が (40) の場合、刃先長さは一律 8mm になります。

●追加加工

| 追加加工 | 型式 | ◎ | シロフ | | | | | | | | | | | | | | | | | | | | |
|---|----------|--|---|------|-----------|----|-----------|----|-----------|----|-------|----|---|-------------|------|-----------|---|-----------|----|-----------|----|-----------|----|
|  | PC WC | 刃先寸法変更 $PC \geq \frac{P \cdot W_{\min}}{2}$ 指定0.01mm単位 (PKC併用の場合 0.001mm単位指定可) | 刃先寸法変更 $PC \geq \frac{P \cdot W_{\min}}{2} \geq 1.00$ $WC \geq \frac{P \cdot W_{\min}}{2} \geq 1.00$ 指定0.01mm単位 ☒ 刃先X適用不可 | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>P (PC)</th> <th>Bmax</th> </tr> </thead> <tbody> <tr><td>1.00~1.99</td><td>20</td></tr> <tr><td>2.00~3.99</td><td>35</td></tr> <tr><td>4.00~5.99</td><td>45</td></tr> <tr><td>6.00~</td><td>60</td></tr> </tbody> </table> | P (PC) | Bmax | 1.00~1.99 | 20 | 2.00~3.99 | 35 | 4.00~5.99 | 45 | 6.00~ | 60 | <table border="1"> <thead> <tr> <th>P(PC)・W(WC)</th> <th>Bmax</th> </tr> </thead> <tbody> <tr><td>1.00~1.49</td><td>8</td></tr> <tr><td>1.50~1.99</td><td>13</td></tr> <tr><td>2.00~3.49</td><td>19</td></tr> <tr><td>3.50~4.99</td><td>25</td></tr> <tr><td>5.00~</td><td>30</td></tr> </tbody> </table> | P(PC)・W(WC) | Bmax | 1.00~1.49 | 8 | 1.50~1.99 | 13 | 2.00~3.49 | 19 | 3.50~4.99 | 25 |
| P (PC) | Bmax | | | | | | | | | | | | | | | | | | | | | | |
| 1.00~1.99 | 20 | | | | | | | | | | | | | | | | | | | | | | |
| 2.00~3.99 | 35 | | | | | | | | | | | | | | | | | | | | | | |
| 4.00~5.99 | 45 | | | | | | | | | | | | | | | | | | | | | | |
| 6.00~ | 60 | | | | | | | | | | | | | | | | | | | | | | |
| P(PC)・W(WC) | Bmax | | | | | | | | | | | | | | | | | | | | | | |
| 1.00~1.49 | 8 | | | | | | | | | | | | | | | | | | | | | | |
| 1.50~1.99 | 13 | | | | | | | | | | | | | | | | | | | | | | |
| 2.00~3.49 | 19 | | | | | | | | | | | | | | | | | | | | | | |
| 3.50~4.99 | 25 | | | | | | | | | | | | | | | | | | | | | | |
| 5.00~ | 30 | | | | | | | | | | | | | | | | | | | | | | |
|  | BC | 刃先長変更 $2 \leq BC \leq B_{\max}$ 指定0.1mm単位 ! 全長Lは刃先長さ BC+25mm以上 が必要です。 | 刃先長変更 $2 \leq BC \leq B_{\max}$ 指定0.1mm単位 ! 全長Lは刃先長さ BC+30mm以上 が必要です。 | | | | | | | | | | | | | | | | | | | | |
|  | PRC | 刃先側端面R加工 $0.3 \leq PRC \leq 1$ 指定0.1mm単位 ! $PRC \leq (P-0.2)/2$ ☒ PCC・GC併用不可 | — | | | | | | | | | | | | | | | | | | | | |
|  | PCC | 刃先側端面C面取り加工 $0.3 \leq PCC \leq 1$ 指定0.1mm単位 ! $PCC \leq (P-0.2)/2$ ☒ PRC・GC併用不可 | — | | | | | | | | | | | | | | | | | | | | |

| 追加加工 | 型式 | ◎ | シロフ |
|---|-----|--|---|
|  | GC | $20^\circ \leq GC \leq 90^\circ$ 指定1°単位 刃先長さ $B \geq f+2$ $f = P/2 \times \tan(90^\circ - GC)$ ☒ LKC・PRC・PCC併用不可 | — |
|  | PKC | 刃先公差変更 $P +0.01 \rightarrow +0.005$ $0 \quad 0$! P寸法0.001mm 単位指定可 ☒ $D > 13$ 適用不可 | 刃先公差変更 $P \cdot W \pm 0.01 \rightarrow +0.01$ $0 \quad 0$ |
|  | LC | 全長変更 $25+B(BC) \leq LC < L$ 指定0.1mm単位 ! 全長-刃先長さが 25mm以下の場合、 刃先長さは 全長-25mmに なります。 (LKC併用の場合0.01mm単位指定可) | 全長変更 $30+B(BC) \leq LC < L$ 指定0.1mm単位 ! 全長-刃先長さが 30mm以下の場合、 刃先長さは 全長-30mmに なります。 |
|  | LKC | 全長公差変更 $L +0.3 \rightarrow +0.05$ $0 \quad 0$ | — |

 **Order 注文例** 形式D-全長-先端寸法-追加加工
 例 GH-TCDS10-70-P7.0-

 **Delivery 納期** 6日目着
 (又は6日目発送)