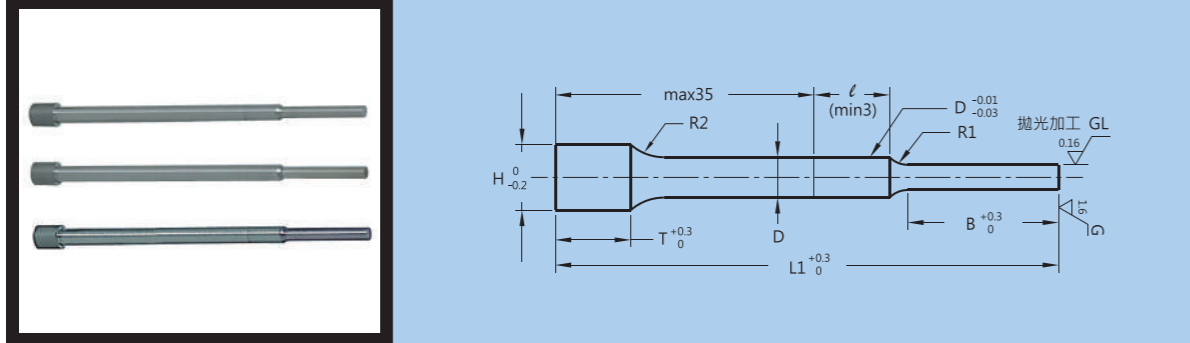


HTP012

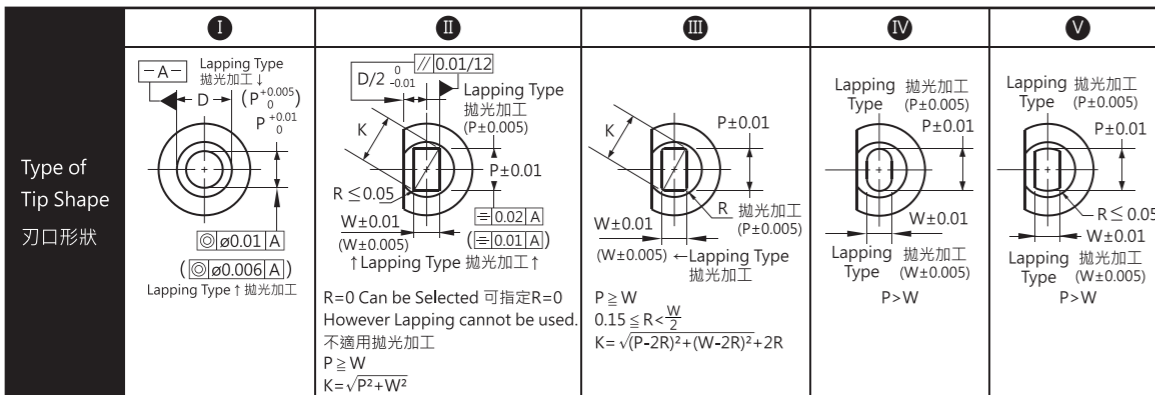


Type 品名	Material 材質	Hardness 硬度	Surface Treatment 表面處理	Delivery 交貨日
HTP012-A	SKH51	61~64HRC	-	8 Working Days 8 個工作日
HTP012-B			Lapping Type 拋光加工	
HTP012-C			TiCN Coating TiCN被覆處理	
HTP012-D	Powdered Highspeed Steel 粉末高速鋼	64~67HRC	-	
HTP012-E			Lapping Type 拋光加工	
HTP012-F			TiCN Coating TiCN被覆處理	

D Tolerance 柄部直徑公差	
a	m5
b	+0.005 0

\* The tip end of a TiCN coating punch is ground before the coating is applied. TiCN被覆處理品刃口端面的研磨是在被覆前進行↓

TiCN Coating 被覆處理			
D	R1		R2
	I	II/III/IV/V	
1.6	2~3	-	≤ 0.2
2.0		≤ 16	
2.5			
3	-		≤ 0.5



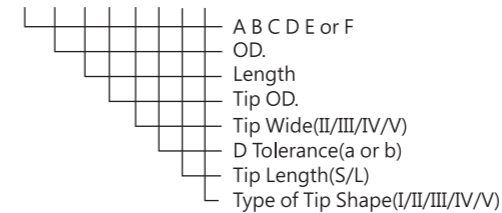
Type 品名	Tip Length 刃口長度	D	L1 (u: 10mm)	I (u:0.01mm) min. P max.	B	P·Kmax.	II/III/IV/V (u:0.01mm) P·Wmin.	B	III (u:0.01mm) R	H	T
HTP012-A	S	1.6	(20)~60	0.30(1.00)~1.59	6	-	-	-	0.05 ≤ R < W/2	2.6	3
		2.0	(20)~60	0.50(1.00)~1.99	8	1.97	0.30(1.00)	4		3.0	3
		2.5	(20)~60	0.80(1.00)~2.49	8	2.47	0.50(1.00)	6		3.5	3
HTP012-C	3	40~80	1.00~2.99	-	2.97	0.70(1.00)	6	5		5	
HTP012-D	L	1.6	30~60	0.50(1.00)~1.59	8	-	-	-		2.6	3
HTP012-E		2.0	30~60	0.80(1.00)~1.99	10	1.97	0.30(1.00)	6		3.0	3
HTP012-F		2.5	30~60	0.80(1.00)~2.49	13	2.47	0.50(1.00)	8	3.5	3	
	Tip Length 刃口長度 L>S	3	50~80	1.00~2.99	-	2.97	0.70(1.00)	8	5	6	

Type 品名	Tip Length 刃口長度	D	L1 (u: 10mm)	I (u:0.001mm) min. P max.	B	P·Kmax.	II/III/IV/V (u:0.001mm) P·Wmin.	B	III (u:0.01mm) R	H	T
HTP012-B	S	1.6	(20)~60	0.30(1.00)~1.59	6	-	-	-	0.05 ≤ R < W/2	2.6	3
		2.0	(20)~60	0.50(1.00)~1.99	8	1.97	0.30(1.00)	4		3.0	3
		2.5	(20)~60	0.80(1.00)~2.49	8	2.47	0.50(1.00)	6		3.5	3
HTP012-E	L	1.6	30~60	0.50(1.00)~1.59	8	-	-	-		2.6	3
		2.0	30~60	0.80(1.00)~1.99	10	1.97	0.30(1.00)	6		3.0	3
		2.5	30~60	0.80(1.00)~2.49	13	2.47	0.50(1.00)	8		3.5	3
	Tip Length 刃口長度 L>S	3	50~80	1.00~2.99	-	2.97	0.70(1.00)	8	5	6	

\* I : P>D-0.03 → ℓ=0 If P>D-0.03 for a round punch, D<sub>-0.01</sub><sup>-0.03</sup> (press-in lead) is not included. 圓沖頭P>D-0.03時·不附D<sub>-0.01</sub><sup>-0.03</sup>(導入部)  
 \* II/III/IV/V : P·K>D-0.05 → ℓ=0 If P·K>D-0.05 for a shaped punch, D<sub>-0.01</sub><sup>-0.03</sup> (press-in lead) is not included. 變形沖頭P·K>D-0.05時·不附D<sub>-0.01</sub><sup>-0.03</sup>(導入部)  
 \* L (20)·(25)→B=4 If full length is (20)·(25), tip length is 4mm in all cases. 全長為(20)·(25)時·刃口長度一律為4mm  
 \* P·W(1.00)→ For TiCN coating/HW coating, P·Wmin. is 1.00. TiCN被覆處理為P·Wmin1.00

Order Ex. 訂購範例

HTP012-□-1.6-L1-P-W-□-□-□



材質及表面處理方式  
 外徑  
 長度  
 前端外徑  
 前端寬度(II/III/IV/V)  
 柄部直徑公差(a or b)  
 刃口長度(S/L)  
 刃口形狀(I/II/III/IV/V)

Alterations 追加加工名稱	Description 加工說明	Alterations 追加加工名稱	Description 加工說明
BC	Tip length change 變更刃口長度 *請參考表13	KC WKC KFC NKC	Addition key flats 止迴加工
SC	Lapping of tip 刃口拋光加工 *請參考表1	HC	Head diameter change 變更頭緣直徑 *請參考表1
PRC	Rounding of tip side edge 刃口側端面R加工	TC	Head thickness change 變更頭緣厚度 *請參考表1
PCC	Chamfering to tip side edge 刃口側端面C倒角加工	TKC TKM	Head thickness tolerance change 變更頭緣厚度公差
GC	Tapper machining of the pin tip 錐度加工 *請參考表1	TCC	Chamfering of head 頭緣部C面加工
PKC	Tip tolerance change 變更刃口公差	SKC	Single key flat on shank 柄部平面加工(1面)
LC	Full length change 變更全長 *請參考表2	NDC	No press-in lead 無導入部
LCT LMT	Changes to head thickness tolerance and full length are processed using a single code. 變更頭緣厚度公差與全長 *請參考表1		
LKC LKZ	Full length tolerance change 變更全長公差		

\*追加加工詳細說明請參考產品概要-追加加工說明