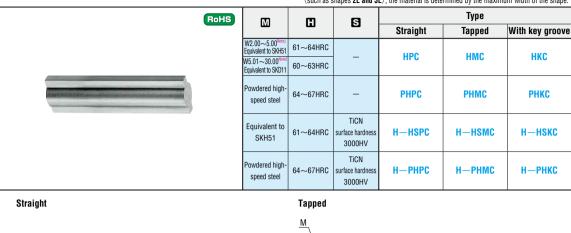
SPECIAL SHAPED STRAIGHT PUNCHES

• Note) For types HPC • HMC • HKC, if the tip shape does not include a W dimension specification, (such as shapes **2L and 3L**), the material is determined by the maximum width of the shape.



Straight	Tapped
B $\frac{1}{2}$ (Example of tip shape)	M M M (Example of tip shape)
-	With key groove T-8.05 5±0.1 (T≥2)
	B $U\pm0.1$ D $U\pm0.1$ D

Catalog No. Type Shape			L	WP	2.00	5.01	10,01	15,01	20,01	25,01	N/I	U	В
					5.00	10.00	15.00	20.00	25.00	30.00	M		
				2.00~ 3.00	0	0	0						
Equivalent to Strainht	Tapped With key groove	2∼12H		3.01~ 4.00	0	0	0	0					
SKH51 (W2.00~5.00)		2 1211	40	4.01~ 5.00	0	0	0	0	0	0	3	1.0	
to SKD11 (W5.01~30.00)	HMC HKC	2∼18J	50	5.01~ 6.00		0	0	0	0	0	4		
Powdered high- speed steel PHPC	PHMC PHKC	3∼28K	60	6.01~ 8.00		0	0	0	0	0	5		4.5
Equivalent to SKH51 U UCDC		2∼ 7L	00	8.01~ 10.00		0	0	0	0	0	6		15
Coating H—HSPC	H-HSMC H-HSKC		70	10.01~ 15.00			0	0	0	0			
Powdered high- speed steel Coating	H-PHMC H-PHKC	Tip shape Select from	80	15.01~ 20.00				0	0	0	8	1.5	
Coating		the shapes		20.01~ 25.00					0	0	0		
		shown on P.715.		25.01~ 30.00									

- ⊗ For coating punches, 10J·13J·5K·10K·18K cannot be used.
- Although the effective range of coating is part B, an extremely thin coating film is formed also on part S. to a length of approximately 10mm.
- The dimension of the uncoated part is reduced by an amount equivalent to the coating thickness (6 \sim 10 μ m).



- Machining limit for HMC⋅PHMC⋅H—HSMC⋅H—PHMC
- ① Shapes 23K · 25K cannot be manufactured. ② Machining limit for tapping and tip



(3) P•W dimensions and tap							
	P(W)	M					
	4.01~ 5.00	3					
P≦W	5.01~ 6.00	4					
(P>W)	6.01~ 8.00	5					
	8.01~10.00	6					
	10.01~30.00	8					

Tap M for shapes 8H · 18J is based on P dimension.

Details of key groove

width of the tip.

Tap M is based on either P or W

dimension, whichever is shorter.

is the midpoint at the maximum lateral

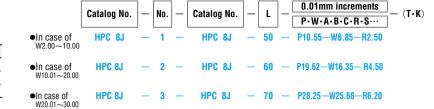
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	P(W)	M						
	4.01~ 5.00	3						
P≦W	5.01~ 6.00	4						
(P>W)	6.01~ 8.00	5						
	8.01~10.00	6						
	10.01~.30.00	Ω						

೨) ୮	• vv ui	illelisiolis aliu	tap ivi	P size of 8H.18J should specify that
_		P(W)	M	
		4.01~ 5.00	3	K size does not exceed an edge-of-a-
	P≦W	5.01~ 6.00	4	blade size limit.
((P>W)	6.01~ 8.00	5	The center of tap M is at the same
		8.01~10.00	6	position as the center of each tip
		10.01~30.00	8	shape (except for shapes 2L·3L).
				The center of tap M for shapes 2L·3L

• P or W < 8..., L≤50 If P or W dimension is smaller than 8.00, full length is within a range of 40~50.
</p>



20.01~30.00



■Key groove position selection







	Alteration	Code	Spec.	1Code
qi	wo	PKC	Tip tolerance P•W±0.01⇔+0.01 change ⊗ Cannot be used with TiCN coating.	(E)
Iterations to full length	LC L	LC	Full length change 30≦LC <l 0.1mm="" increments<="" th=""><th>otatio</th></l>	otatio
lterations t	L C	LKC	Full length tolerance L $+0.3 \Rightarrow +0.05$ change $0 \Rightarrow 0 \Rightarrow 0$	Q

Alteration		Code	Spec.	1Code
key groove	- -	TKC	Key groove position tolerance change $ \begin{array}{ccc} \text{T} & 0 & 0 \\ & & \text{T} & 0 & 0 \\ & & \text{T} & 0 & 0 \\ & & & \text{T} & 0 & 0 \\ & & & & \text{T} & 0$	otation
Alterations to		RTC	Key groove position tolerance change T_005 \$\infty\$^+0.05 tolerance	Quota





