



В	н	М	Catalog No.	0.1mm increments	0.01mm increments			
	11		Туре	Shape	D	L	min. P max.	V min
8	5				3	40.0~80.0	2.00~ 2.99	1.00
	7		Regular type —No foundation— —Foundation WPC®—	2A~4A•6A	4		2.00~ 3.99	1.00
	8	3	(D3~25) N—SH NW—SH		5		2.00~ 4.99	1.20
	9	٦	N—PH NW—PH	2B ∼ 8B	6		2.00~ 5.99	1.20
13	11	4		2B ~ 0B	8		3.00~ 7.99	1.50
	13	5		2C~10C <b>⊢</b>	10	(40.0~49.9)	3.00~ 9.99	1.50
	16		Tapped (D5~25) N—MPH NW—MPH		13		6.00~ 12.99	2.00
	19	6	(D3~25) N-MFH NW-MFH	2D~10D	16	50.0~100.0	10.00~ 15.99	3.00
19	23	٥			20		13.00~ 19.99	3.00
	28				25		18.00~ 24.99	4.00

① L (40.0~49.9) ·····B=8 If full length L is (40.0~49.9), tip length B is 8mm in all cases. ② P>D=0.03 ···· $\ell$ =0 If P>D=0.03, D= $\frac{0.01}{0.05}$  (press-in lead) is not included.







Days to Ship Quotation

## ■Effects of DLC coating

Effective for preventing adhesion during aluminum or copper blanking thanks to its low affinity for nonferrous metal.See the product data for details. P.1609





Alterations Cod		Code	Spec.	1Code
	( <u>Ö)</u>	PC	P dimension change $PC {\triangleq} \frac{Pmin.}{2} {\triangleq} Vmin.  0.01mm \text{ increments}$	
	B	ВС	Tip length change ≥ SB ≤ BCmax. ≤ L/2 0.1mm increments • Full length L must be at least 30mm longer than tip length BC. P(PC) BCmax 1.00c-1:19 15 1.20c-1:99 20 2.00c-2:99 30 3.00c-3:99 35 4.00c-5:99 45 6.00c 600 BCM	
Alterations to tip	0.16 GL	SC	Lapping of tip  ③ P d'imension tolerance and increment remain the same. The base material is finished before the coating is applied.  ⊗ Cannot be used with foundation wpc®.  ⊗ Cannot be used for shapes 2A-6A-8B-2C-3C-4C-6C-2D-3D-4D-5D-8D-9D-10D.  ⊗ Cannot be combined with AKC-KKC-RKC-QKC.	ition
Alte	Αū	AKC	Angle A tolerance change A±30 ⇔±10	uota
	ΚŒ	KKC	Angle K tolerance change K±30 ⇔±10	0
	RO	RKC	R dimension tolerance $\begin{array}{l} R\pm 0.5 \Leftrightarrow \pm 0.05 \\ \text{Can be used for } 0.1 \leqq R \leqq 10. \\ \text{\ref{for foundation WPC}}^\circ, R\pm 0.1 \end{array}$	
	Q	QKC	$\begin{array}{l} \text{Q dimension tolerance change} \\ \text{Q}\pm 0.5 \Rightarrow \pm 0.05 \\ \text{Can be used for } 0.1 \leqq \text{Q} \leqq 10. \\ \text{\P For foundation WPC}^{\circ}, \text{Q}\pm 0.1 \end{array}$	
ad	<u>=国</u>	НС	Head diameter change D≦HC <h 0.1mm increments</h 	
Head	TC T	TC	Head thickness change 2≦TC<5 0.1mm increments (If combined with TKC-TKM, 0.01mm increments can be selected.) The full length remains as specified.	

ı	Alterations	Code	Spec.	1Code
head	TCC	TCC	Chamfering of head This improves the strength of the punch head. $\blacksquare$ P.1611 0.1mm increments 0.5 $\le$ TCC $\le$ (H $-$ D)/2 $\bigcirc$ If H $\le$ 5, then TCC is 0.5.	
		KC	Addition of single key flat	
Alterations to head		WKC	Addition of double key flats in parallel   Scannot be used for tapped punches of D5.	ര
Alterat		RC	Head thickness is machined to a tolerance of $-0.04 \sim 0$ relative to the retainer surface.	tation
	TO	TKC	Head thickness tolerance change $5 \stackrel{+0.3}{{\circ}} \Leftrightarrow \stackrel{+0.02}{{\circ}}$	Quo
		TKM	Head thickness tolerance change $5 \stackrel{+0.3}{\circ} \Leftrightarrow \stackrel{0}{\circ} \stackrel{-0.02}{\circ}$	
	LO	LKC	L dimension tolerance change	
Others	FO	FKC	F dimension tolerance change $ F \overset{+0.3}{{\circ}} \Leftrightarrow \overset{+0.05}{{\circ}} $	
	P_0.01	NDC	No press-in lead $\ell \ge 3 \Leftrightarrow \ell = 0$ $\otimes$ Cannot be used for tapped punches.	
		<u> </u>		



Quotation

680 679