



В	Н	M	Catalog No.					0.1mm increments	0.01mm increments	
D			Туре			Shape	D	L	min. P max.	V min
	5						3		2.00~ 2.99	1.00
8	7		Regular type Dicoat® treatme	nt TiCN coating	HW coating	SH 2A~4A·6A	4	40.0~80.0	2.00~ 3.99	1.00
	8	3	(D3~25) T— <b>SP</b>	H—SH	HW-SH		5		2.00~ 4.99	1.20
	9	٥	T—PH	H—PH	HW—PH	2B ∼ 8B	6	]	2.00~ 5.99	1.20
	11	4	With locating dowel hole T—SP—C	H-SP-C	HW-SP-C	2D ~ 0D	8		3.00~ 7.99	1.50
13	13	5	(D10~25)	1-3r-c n-3r-c	NW-3F-C	2C~10C	10	(40.0~49.9)	3.00~ 9.99	1.50
	16		(D10* - 23)				13		6.00~ 12.99	2.00
	19	6 Tanned		Н—МРН	HW-MPH	2D~10D	16	50.0~100.0	10.00~ 15.99	3.00
19	23		Tapped (D5∼25)				20		13.00~ 19.99	3.00
	28	1   (0.	(03 23)				25		18.00~ 24.99	4.00

Dicoat® treatment punches cannot be used for shapes 6A+8B+2D.

 $\begin{array}{l} \textcircled{\scriptsize $\mathbb{P}$ L(40.0\sim49.9)$} \longrightarrow \texttt{B=8} \ \, \text{If full length L is } (40.0\sim49.9), \text{tip length B is 8mm in all cases.} \\ \textcircled{\scriptsize $\mathbb{P}$ PD$} \longrightarrow \texttt{0.03} \longrightarrow \texttt{0.03} \cup \texttt{0.03}, \texttt{0.03} \cup \texttt{0.0$ 











	Alterations	Code	Spec.				
	( <u>) श</u> ब	PC	P dimension change $ PC {\triangleq} \frac{Pmin.}{2} {\triangleq} Vmin.  0.01mm \ increments $				
	B	ВС					
Alterations to tip	0.16 GL	SC	Lapping of tip  ① P dimension tolerance and increment remain the same. The base material is finished before the coating is applied. ② Cannot be used with Dicoat® treatment+HW coating. ③ Cannot be used for shapes 2A -6A -8B -2C - 3C -4C -6C -2D -3D -4D -5D -8D -9D -10D. ③ Cannot be combined with AKC - KKC - RKC - QKC.	otation			
⋖	Αū	AKC	Angle A tolerance change ⊗ Cannot be used with Dicoat® treatment punches.				
	Κū	KKC	Angle K tolerance change ⊗ Cannot be used with K±30'⇒±10' Dicoat® treatment punches.				
	RO	RKC	$ \begin{array}{c} R \ dimension \ tolerance \\ R\pm 0.5 \Longrightarrow \pm 0.05 \end{array} \stackrel{\Large \textstyle \bigotimes}{\longrightarrow} \ Can \ be \ used \ dr \ 0.1 \leqq R \leqq 10. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$				
	QE	QKC	$ \begin{array}{ll} \hbox{$Q$ dimension tolerance change} & \bigotimes \hbox{Cannot be used with} \\ \hbox{$Q\pm0.5$} \mbox{$$\pm0.05$} & \hbox{$D$ icoat$}^0$ treatment punches. \\ \hbox{Can be used for } 0.1 \mbox{$$\leq$} \mbox{$$\leq$} 10. \mbox{$$\circ$} \mbox{ For HW coating, } \mbox{$Q\pm0.1$} \\ \end{array} $				
ad	= 121 []	нс	Head diameter change D≦HC < H 0.1mm increments				
Head	TC	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.				

	Alterations	Code Spec.			
	TCC	TCC	Chamfering of head This improves the strength of the punch head. $\nearrow$ P.1611 0.1mm increments 0.5 $\le$ TCC $\le$ (H $-$ D)/2 $\bigcirc$ If H $\le$ 5, then TCC is 0.5.		
head		KC	Addition of single key flat  Cannot be used for tapped punches of D5		
Alterations to head		WKC	Addition of double key flats in parallel  Cannot be used for tapped punches of D5		
Alteral		RC	Head thickness is machined to a tolerance of -0.04~0 relative to the retainer surface.	otation	
	TER	TKC	Head thickness tolerance change $\bigotimes$ Cannot be used for punches $5^{+0.3} \Leftrightarrow {+0.02 \atop 0} \Leftrightarrow$ with locating dowel holes.	Quol	
	' •	TKM	Head thickness tolerance change $\bigotimes$ Cannot be used for punches $5 \stackrel{+0.3}{\sim} \stackrel{0}{\Leftrightarrow} -0.02$ with locating dowel holes.		
	LO	LKC	L dimension tolerance change		
Others	FO	FKC	$ \begin{array}{c c} \mbox{F dimension tolerance change} \\ \mbox{F} \stackrel{+0.3}{\sim} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$		
	P D-0.03	NDC	No press-in lead $\ell \ge 3 \Leftrightarrow \ell = 0$ $\otimes$ Cannot be used for tapped punches.		



**Quotation** 

678 677