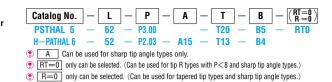
FLANGE STOPPER PILOT PUNCHES

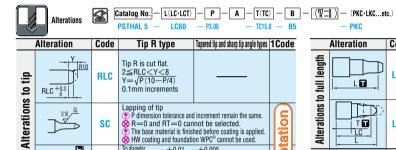
-NORMAL·TICN COATING·HW COATING·DLC COATING-











Tip R is cut flat. $2 \le RLC < Y < 8$ $Y = \sqrt{P(10 - P/4)}$ 0.1mm increments			Alterations to head Alterations to full length
HW coating and foundati	not be selected. hed before coating is applied. on WPC® cannot be used.	otation	Alterations
Tip diameter tolerancechange P + 0.01 = P + 0.01 = Tolerancechange	0		nead
Full length change 40 <lc< td=""><th>n increments can be selected.)</th><td></td><td>ons to I</td></lc<>	n increments can be selected.)		ons to I
If LC<50, T and TCIf LC<50 with D6⋅8B is 2~10.			Alteration

Alteration	Code	Tip R type	Tapered tip and sharp tip angle types	1Code	
	LKC		Full length tolerance change L +0.3 ⇒ +0.05 0 0 Solution to be used with TrCN coating, HW coating, DLC coating and foundation WPC® cannot be used		
T C	LCT	Changes to head thickness tolerance and fu The allowable range of change, increment $\begin{tabular}{c} TKC \\ Head thickness tolerance change \\ T $\begin{tabular}{c} 0.05 \end{tabular} = \begin{tabular}{c} 0.02 \end{tabular}$	s, and notes (🐑) are the same as for LC.	Quotation	
	TC	T dimension change 13 <tc<25 0.1mm="" available="" full="" in="" it="" l="" l<50,="" length="" rem<="" td="" the=""><td>e range is 13<tc<20.< td=""><td>Ono</td></tc<20.<></td></tc<25>	e range is 13 <tc<20.< td=""><td>Ono</td></tc<20.<>	Ono	
	TKC	Head thickness T -	$\begin{array}{c} 0 \\ -0.05 \end{array} \Rightarrow \begin{array}{c} 0 \\ -0.02 \end{array}$		



Alterations to full length

LC



LC



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

	1 00		
Туре	M	Catalog No.	Shape
—Tip R type—	Powdered high-speed steel 64~67HRC	PSTHAL	D=0.01 D=0.03 PRT (※) P=0.01 RT (※) P=0.01 P=0.01 P=0.01 P=0.01 A
	Powdered high- speed steel 64~67HRC Surface hardness 3000 HV	H—PSTHAL HW—PSTHAL	T-0.05 \(\text{\$\exititt{\$\text{\$\exititt{\$\text{\$\text{\$\text{\$\text{\$\texititt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\tex
	Powdered high- speed steel 64~67HRC Surface hardness 3000 HV ~	N—PSTHAL NW—PSTHAL	
—Tapered tip type— RoHS	Powdered high-speed steel 64~67HRC	PTPHAL	0 −0.01 R0.3 or less R P+0.01 Po 0 ≠ 0.01 A
	Powdered high- speed steel 64~67HRC Surface hardness 3000 HV	H—PTPHAL HW—PTPHAL	G ± 30′ T = 0.05 10°
	Powdered high- speed steel 64~67HRC Surface hardness 3000 HV ~	N-PTPHAL NW-PTPHAL	P G P≤1.99 10° P≥2.00 15°
—Sharp tip angle type—	Powdered high-speed steel 64~67HRC	PATHAL	3 D-0.01 R0.3 or less R P+0.01 A
	Powdered high- speed steel 64~67HRC Surface hardness 3000 HV	H—PATHAL HW—PATHAL	T -0.05
	Powdered high- speed steel 64~67HRC Surface hardness 3000 HV ~	N—PATHAL NW—PATHAL	RT(※)····Tip is rounded for safety. To keep the sharp tip (no rounding) , specify RT=0.HW coating or foundation WPC® cannot be used.
Catalon No		1004	increments

Catalog No. Type	D	L	0.01mm increments min. P max.	A	T	1mm increments B	V	Υ	R
-Normal- PSTHAL	4	42	0.50(1.00) ~ 2.00		13 16 20	2 ~ 6	2	1	2~3
PTPHAL PATHAL —TiCN coating—		52	0.00(1.00)		13 16 20 25	2 / 0		ı	20
H—PSTHÅL H—PTPHAL	H—PSTHÅL H—PTPHAL	42	1.00 3.00	1.00 ~ 3.00 10	10	13 16 20	2 ~ 8	3 2	
H—PATHAL —HW coating— HW—PSTHAL	•	52 (62)	1.00 - 0.00	15 20	13 16 20 25	2 70 0	3	2	
HW—PTPHAL HW—PATHAL —DLC coating—	6	42	1.50 ~ 4.00	25 30	13 16 20	2 ~ 10 2 ~ 13	4	10	
N—PSTHÅL N—PTPHAL N—PATHAL	0	52 62 (72)			13 16 20 25			3	10
—DLC foundation WPC®— NW—PSTHAL	—DLC foundation WPC®— NW—PSTHAL	42	2.00 ~ 6.00		13 16 20	2 ~ 10	6	J	
NW—PTPHAL NW—PATHAL	52 62 (72)	2.00 ~ 0.00		13 16 20 25	2 ~ 13				
® L (62) (72)····L62 of D5 and L72 of D6·8 can be used for tip R types and tapered tip types only. ® P(1.00)····For TiCN coating · HW coating · DLC coating, Pmin. is 1.00.									

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