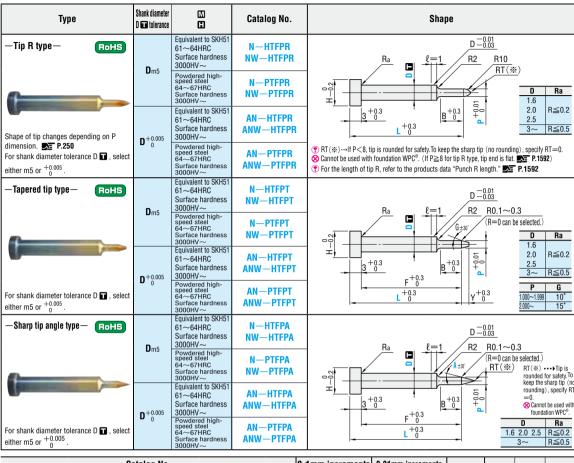
PILOT PUNCHES FOR FIXING TO STRIPPER PLATES

-DLC COATING-





		Catalog No.			0.1mm increments	0.01mm increments	A	В	Υ	н
		Туре		D	L	min. P max.	A	D	T	П
57 5 1 11 01/1154		—Foundation WPC®—		1.6		1.00~ 1.59			1	2.6
<u>M</u> Equiva (D m5)	(D +0.005)		alent to SKH51	2.0		1.00~ 1.99			'	3
(81113)	(5 0)	(D m5)	$(\mathbf{D}_{0}^{+0.005})$	2.5		1.00~ 2.49				3.5
N—HTFPR	AN—HTFPR	NW-HTFPR	ANW-HTFPR	3]	1.00~ 2.99	(10)		2	5
N—HTFPT	AN—HTFPT	NW-HTFPT	ANW—HTFPT	4		2.00~ 3.99	15			7
N—HTFPA	AN—HTFPA	NW—HTFPA	ANW—HTFPA	5	10.0~40.0	2.00~ 4.99	20	4	3	8
M Powdered	I high-speed steel	M Powdere	d high-speed steel	6]	2.50~ 5.99	25		ა	9
(D m5)	$(\mathbf{D}_{0}^{+0.005})$	(D m5)	$(\mathbf{D}_{0}^{+0.005})$	8		5.00∼ 7.99	30		-	11
N—PTFPR	AN-PTFPR	NW-PTFPR	ANW-PTFPR	10		7.00∼ 9.99			5	13
N—PTFPT	AN—PTFPT	NW-PTFPT	ANW-PTFPT	13		10.00~ 12.99			•	16
N—PTFPA	AN—PTFPA	NW—PTFPA	ANW—PTFPA	16	1	13.00~ 15.99			8	19

⊗ A(10) ••• If P≥2.00, A10 cannot be selected.

 \P P>D-0.03·••• ℓ=0 if P>D-0.03, D_{-0.03} (press-in lead) is not included.

If L<12, tip length B is 2mm.</p>

• An extremely thin coating layer is also formed on the shank.



Catalog No.]-	L]_	Р	_	Α	$-\left[\begin{pmatrix} RT = 0 \\ R = 0 \end{pmatrix} \right]$
AN—PTFPR 6	_	30.2	_	P4.50			- RTO
N-PTFPA 4	_	32.0	_	P3.50	_	A15	
NW-PTFPA 4	_	32.0	_	P3.50	_	A15	
A Can be	used f	for sharp	tip an	gle types	only.		

• R=0 only can be selected. (Can be used for tapered tip types and sharp tip angle types.)



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	Alteration	Code	ode Tip R type Tapered tip and sharp tip angle type			
	BC	BC	Tip length change 2≦BC≦Bmax.≦L/2 0.1mm increments 1.200 20 20 Full length L must be at least 8mm longer than tip length BC.			
	RLC +0.3	RLC	Tip R is cut flat. $2 \le RLC < Y < 8$ $Y = \sqrt{P(10 - P/4)}$ 0.1mm increments			
Alterations to tip	YC YC			Tip taper length change -P<2.0 1≤YC≤P×2.83-0.3 -P≥2.0 1≤YC≤P×1.86-0.3≤18 0.1mm increments ⊗ Cannot be used for sharp fly angle types.		
	GC			Tip angle change 1.000≤P≤1.999 5°≤GC<10° 2.000≤P≤5.999 5°≤GC<15° ② Can be used for D2.5~ D6 VC≦P/ZtanGC-0.3≤18 ⊗ Cannt be used five hip in payle types.	Quotation	
	AC /	AC		Tip angle change 15° < AC≦45° 1° increments ⊗ Cannot be used for tapered tip types.		
	0.16 El 0.16 E	SC	Lapping of tip ① P dimension tolerance remains the same. ② The base material is finished before the coating is applied. ② R=0 and RT=0 cannot be selected. ③ Cannot be used with foundation WPC®.			
		PKC				

Alteration		Code	Tip R type Tapered tip and sharp tip angle types				
	型	нс	Head diameter change D≦HC <h 0.1mm increments</h 				
	TIC TIC	TC	Head thickness change 2≦TC<3 0.1mm increments (If combined with TKC/TKM, 0.01mm increments can be selected.) ③ The full length remains as specified.				
head		KC	Addition of single key flat to head				
Alterations to head		WKC	Addition of double key flats in parallel				
Alterat		TKC	Head thickness tolerance change $T^{+0.3}_{0} \Longrightarrow ^{+0.02}_{0}$	Head thickness tolerance change $ \begin{array}{c} T \stackrel{+0.3}{\longrightarrow} \stackrel{+0.02}{\longrightarrow} \\ \left(F \stackrel{+0.3}{\longrightarrow} \stackrel{+0.1}{\longrightarrow} \right) \end{array} $	uotation		
		TKM	Head thickness tolerance change $T^{+0.3}_{0} \Rightarrow \begin{array}{c} 0 \\ -0.02 \end{array}$	Head thickness tolerance change $ \begin{array}{c} T \stackrel{+0.3}{\longrightarrow} \stackrel{0}{\longrightarrow} \stackrel{-0.02}{\longrightarrow} \\ \left(F \stackrel{+0.3}{\longrightarrow} \stackrel{+0.1}{\longrightarrow} \right) \end{array} $	Ono		
Alterations to shank	£ D-0.03	NDC No press-in $\ell=1$ \Rightarrow $\ell=0$					
Alteration	1.0mm or less	TNK	Addition of undercut (Cut of 0.2 or less)				
E CH	ects of DLC coat	ina	<u> </u>]			

Effects of DLC coating

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



Quotation

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