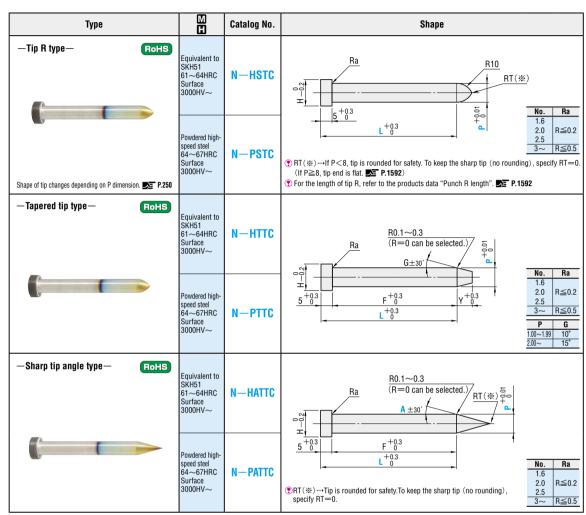
## **STRAIGHT PILOT PUNCHES**

## -DLC COATING-





Catalog No.									0.01mm increments	Δ	γ	н
Туре	No.				L				min. P max.	A	T	п
	1.6	42	52	62					1.00~ 1.60			2.6
	2.0	42	52	62					1.00~ 2.00		2	3
	2.5	42	52	62					1.50~ 2.50			3.5
	3	42	52	62	72	82	(92)		2.00~ 3.00			5
	4	42	52	62	72	82	(92)		3.00~ 4.00	(10)		7
	5	42	52	62	72	82	(92)		<b>4.00∼ 5.00</b>	(15)	3	8
	6	42	52	62	72	82	(92)		<b>5.00∼ 6.00</b>	<b>(20</b> )	٥	9
M Powdered high-speed steel N—PSTC N—PTTC N—PATTC	8	42	52	62	72	82	(92)		6.00~ 8.00	25	5	11
	10	42	52	62	72	82	(92)	(102)	8.00~ 10.00	30		13
	13	42	52	62	72	82	(92)	(102)	10.00~ 13.00			16
	16	42	52	62	72	82	(92)	(102)	13.00~ 16.00		8	19
	20	42	52	62	72	82	(92)	(102)	16.00~ 20.00			23
	25	42	52	62	72	82	(92)	(102)	20.00~ 25.00			28

(92) (102) ..... L92 and 102 can be used for tip R types and tapered tip types only.

 $\otimes$  A(10)...If P $\geq$ 6.0, A10 cannot be selected.  $\otimes$  A(15)...If P $\geq$ 15.0, A15 cannot be selected.

⊗ A(20) ···· If P≥20.0, A20 cannot be selected.

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	A11 11	•	T. D.	T 10 11 0 11	40 1		
Alteration		Code	Tip R type	Tapered tip and sharp tip angle types	1Code		
qi	+0.3	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 L(LC) +YC≤Lmax.+8 O.1mm increments ⊗ Camot be used for starp fip angle types			
Alterations to tip	RLC +0.3	RLC	Tip R is cut flat. $2 \le RLC < Y < 8$ $Y = \sqrt{\frac{P(10 - P/4)}{D(10 - P/4)}}$ 0.1mm increments				
	Lapping of tip  P dimension toleran  the base material is finish  Lapping range (B)  P (B)  1.00~2.99 13  3.00~9.99 19  10.00~ 25			e remains the same. d before the coating is applied.  If L< (B) +20, (B) is adjusted to (L-20).  R=0 and RT=0 zamot be selected. Lapping range for straight portion is min.5mm.	notation		
Alterations to full length	LC L	LC	Full length change 25≦LC <l 0.1mm increments</l 				
	7 T LC	LCT	Changes to head thickness tolerance and full The allowable range of change, increments, $ \begin{array}{c} \textbf{TKC} \\ \textbf{HEad} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$				
		LMT	Changes to head thickness tolerance and ful The allowable range of change, increments,				

Alteration		Code	Tip R type	Tapered tip and sharp tip angle types	1Code	
Alterations to head	H H	нс	Head diameter change P≦HC <h 0.1mm increments •</h 	2.6≦HC <h< td=""><td></td></h<>		
	TC	TC	Head thickness change 4≦TC<5 0.1mm increments (If combined with LCT, LMT, TXC, and TXM, 001mm increments can be selected.)  ● Full length L is shortened by (5—TC).  If combined with LC, full length is equal to LC.			
		KC	Addition of single key fla	tation		
	WKC		Addition of double key fl	Quotati		
	TKC TKM		Head thickness tolerance change T +0.3	⇒ <sup>+0.02</sup>		
			Head thickness tolerance change T +0.3	⇒_0 -0.02		

■ 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. ■ F. P. 1609



Quotation

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