

STRAIGHT PILOT PUNCHES

Type	M H	Catalog No.	Shape										
— Tip R type —	RoHS	Equivalent to SKD11 60~63 HRC STC (No.3~25)	<table border="1"> <tr><th>No.</th><th>Ra</th></tr> <tr><td>1.6</td><td>R≤0.2</td></tr> <tr><td>2.0</td><td></td></tr> <tr><td>2.5</td><td></td></tr> <tr><td>3~</td><td>R≤0.5</td></tr> </table>	No.	Ra	1.6	R≤0.2	2.0		2.5		3~	R≤0.5
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	1.6	R≤0.2											
2.0													
2.5													
3~	R≤0.5												
	Equivalent to SKH51 61~64HRC HSTC												
	Powdered high-speed steel 64~67HRC PSTC												
Shape of tip changes depending on P dimension.													
— Tapered tip type —	RoHS	Equivalent to SKD11 60~63HRC TTC (No.3~25)	<table border="1"> <tr><th>No.</th><th>Ra</th></tr> <tr><td>1.6</td><td>R≤0.2</td></tr> <tr><td>2.0</td><td></td></tr> <tr><td>2.5</td><td></td></tr> <tr><td>3~</td><td>R≤0.5</td></tr> </table>	No.	Ra	1.6	R≤0.2	2.0		2.5		3~	R≤0.5
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	Equivalent to SKH51 61~64HRC HTTC												
	Powdered high-speed steel 64~67HRC PTTC												
Shape of tip changes depending on P dimension.													
— Sharp tip angle type —	RoHS	Equivalent to SKD11 60~63HRC ATTC (No.3~25)	<table border="1"> <tr><th>No.</th><th>Ra</th></tr> <tr><td>1.6</td><td>R≤0.2</td></tr> <tr><td>2.0</td><td></td></tr> <tr><td>2.5</td><td></td></tr> <tr><td>3~</td><td>R≤0.5</td></tr> </table>	No.	Ra	1.6	R≤0.2	2.0		2.5		3~	R≤0.5
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	Equivalent to SKH51 61~64HRC HATTC												
	Powdered high-speed steel 64~67HRC PATTC												
Shape of tip changes depending on P dimension.													

Type	Catalog No.	No.	L				0.01mm increments		A	Y	H
			min.			max.					
Equivalent to SKD11 (No.3~25) STC TTC ATTC		1.6	42	52	62		1.00	1.60	(10)	2	2.6
		2.0	42	52	62		1.00	2.00			3
		2.5	42	52	62		1.50	2.50			3.5
		3	42	52	62	72	82	(92)			2.00
Equivalent to SKH51 HSTC HTTC HATTC		4	42	52	62	72	82	(92)	3.00	4.00	7
		5	42	52	62	72	82	(92)	4.00	5.00	8
		6	42	52	62	72	82	(92)	5.00	6.00	9
		8	42	52	62	72	82	(92) (102)	6.00	8.00	11
Powdered high-speed steel PSTC PTTC PATTC		10	42	52	62	72	82	(92) (102)	8.00	10.00	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	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

- Ⓛ (102) → L102 with No.8 can be used only for SKD11.
- Ⓛ (92) (102) → L92 and 102 can be used for tip R types and tapered tip types only.
- ⓐ (10) → If P≥6.0, A10 cannot be selected. ⓐ (15) → If P≥15.0, A15 cannot be selected.
- ⓐ (20) → If P≥20.0, A20 cannot be selected.



Order Catalog No. — L — P — A — (RT=0 / R=0)

STC 6 — 72 — P5.02 — RT0
PATTC 8 — 42 — P7.03 — A15

- ⓐ Can be used for sharp tip angle types only.
- Ⓛ (RT=0) only can be selected. (Can be used for tip R types with P<8 and sharp tip angle types.)
- Ⓛ (R=0) only can be selected. (Can be used for tapered tip types and sharp tip angle types.)



Days to Ship **Quotation**



Alterations Catalog No. — L(LC-LCT-LMT) — P — A — (RT=0 / R=0) — (YC-HC-TC, etc.)
PSTC 10 — LC65 — P8.50 — HC12

Alteration	Code	Tip R type	Tapered tip and sharp tip angle types	1Code
Alterations to tip	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 0.1mm increments ⓧ Cannot be used for sharp tip angle types.	
	RLC	Tip R is cut flat. 2≤RLC<Y<8 Y=√P(10-P/4) 0.1mm increments	—	
	PKC	Tip diameter tolerance change p+0.01 ⇄ +0.005 0 ⓐ P dimension can be selected in 0.001mm increments.	—	
Alterations to full length	LC	Full length change 25≤LC<L 0.1mm increments	—	Quotation
	LKC	Full length tolerance change L+0.3 ⇄ +0.05 0	—	
	LCT	Changes to head thickness tolerance and full length are processed using a single code. The allowable range of change, increments, and notes (ⓐ) are the same as for LC. TKC Head thickness tolerance change T+0.3 ⇄ +0.02 0	Full length change LC	
Alterations to full length	LMT	Changes to head thickness tolerance and full length are processed using a single code. The allowable range of change, increments, and notes (ⓐ) are the same as for LC. TKM Head thickness tolerance change T+0.3 ⇄ +0.05 0	Full length change LC	



Price **Quotation**

Alteration	Code	Tip R type	Tapered tip and sharp tip angle types	1Code
Alterations to head	HC	Head diameter change P≤HC<H 0.1mm increments	—	
	TC	Head thickness change 2≤TC<5 0.1mm increments (if combined with LCT, TKC, and TKM, 0.01mm 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 flat to head	—	
	WKC	Addition of double key flats in parallel	—	
	TKC	Head thickness tolerance change T+0.3 ⇄ +0.02 0	—	
Shank	TKM	Head thickness tolerance change T+0.3 ⇄ 0 -0.02	—	
	FKC	F dimension tolerance change F+0.3 ⇄ +0.05 0 ⓧ Cannot be combined with LKC.	—	

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Quotation