

MOVABLE PILOT PUNCHES

—NORMAL · LAPPING—

Type	Shank diameter D _{g6} tolerance	Catalog No.		Shape	
		Normal	Lapping		
—Sharp tip angle type— RoHS	D _{g6}	Equivalent to SKD11 60~63HRC	UPT (D3~8)	L-UPT (D3~8)	Add alterations to tip according to specifications.
		Equivalent to SKH51 61~64HRC	HUPT	L-HUPT	
		Powdered high-speed steel 64~67HRC	PUPT	L-PUPT	
	D _{-0.005} -0.010	Equivalent to SKD11 60~63HRC	A-UPT (D3~8)	AL-UPT (D3~8)	
		Equivalent to SKH51 61~64HRC	A-HUPT	AL-HUPT	
		Powdered high-speed steel 64~67HRC	A-PUPT	AL-PUPT	
—Tip R and taper combined types— RoHS	D _{g6}	Equivalent to SKD11 60~63HRC	UPTF (D3~8)	L-UPTF (D3~8)	Enlarged view of circled part 1.5 R10
		Equivalent to SKH51 61~64HRC	HUPTF	L-HUPTF	
		Powdered high-speed steel 64~67HRC	PUPTF	L-PUPTF	
	D _{-0.005} -0.010	Equivalent to SKD11 60~63HRC	A-UPTF (D3~8)	AL-UPTF (D3~8)	
		Equivalent to SKH51 61~64HRC	A-HUPTF	AL-HUPTF	
		Powdered high-speed steel 64~67HRC	A-PUPTF	AL-PUPTF	

Catalog No.				L	0.01mm increments (0.001mm increments for lapping)		0.1mm increments B
Type		D	min. P max.				
—Normal—		2.0 2.5 3 4 5 6 8	32 42		2.0~(23.0)		
—Lapping—			32 42				
(D _{g6})	(D _{-0.005} -0.010)		42 52 62 72	1.00~2.00			
(D _{g6})	(D _{-0.005} -0.010)		42 52 62 72	1.00~2.50			
(D _{g6})	(D _{-0.005} -0.010)		42 52 62 72	1.50~3.50			
(D _{g6})	(D _{-0.005} -0.010)		42 52 62 72	2.00~4.50			
(D _{g6})	(D _{-0.005} -0.010)		42 52 62 72	2.50~5.50			
(D _{g6})	(D _{-0.005} -0.010)		42 52 62 72 82	3.00~7.50			

Ⓜ B(23) → If P < 1.0, then B ≤ 8. Ⓜ P(1.00) → For tip R and taper combined types, Pmin. is 1.00.

Ⓜ (Y) → Tip Y length = 0.6 + √(P-0.2) (40.2-P)/4



Order

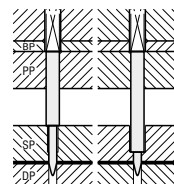
Catalog No. — L — P — B — (RT=0)

UPTF 8 — 72 — P5.88 — B20.0 — RT0

Ⓜ (RT=0) only can be selected. Ⓜ () Can be used for tip R and taper combined types. However lapping cannot be used.



Example



Days to Ship

Quotation



Alterations



Catalog No. — L(LC) — P(PC) — B — (RT=0) — (GC·RC·PKC·BKC)

UPT 8 — LC70 — P5.88 — B20.0 — GC30 — PKC

Alteration	Code	Spec.	1Code
Alterations to tip	PC	Tip diameter change Sharp tip angle type PC ≥ Pmin./2 ≥ 0.5 Tip R and taper combined types PC ≥ Pmin./2 ≥ 1.0 0.01mm increments (With lapping, 0.001mm increments) (If combined with PKC, 0.001mm increments can be selected.) Ⓜ If PC0.5~0.99, Bmax. is 8mm.	Quotation
	GC	Tip angle change 15° < GC ≤ 45° 1° increments Ⓜ Cannot be used for tip R and taper combined types.	
	RC	Rounding to tip Tip is rounded to R10. Ⓜ Cannot be used for tip R and taper combined types.	



Price

Quotation

Alteration	Code	Spec.	1Code
Alterations to tip	RLC	Tip R is cut flat. 3 ≤ RLC < Ymax. 0.1mm increments Ⓜ RT=0 cannot be selected. Ⓜ Cannot be used for sharp tip angle types. Ⓜ P < 1 cannot be selected.	Quotation
	PKC	Tip diameter tolerance change P +0.01/0 ↔ +0.005/0 Ⓜ P dimension can be selected in 0.001mm increments. Ⓜ Cannot be used with lapping.	
	BKC	Tip length tolerance change B +0.3/0 ↔ +0.05/0 Ⓜ B dimension can be selected in 0.01mm increments. Ⓜ Cannot be combined with RC.	
Length	LC	Full length change B+9 ≤ LC < L 0.1mm increments	

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