

TAPPED PILOT PUNCHES

—NORMAL—

Type	Shank diameter D \square tolerance	M \square H	Catalog No.		Shape
			Type	B tip length	
—Tip R type— RoHS	D _{m5}	Equivalent to SKD11 60~63HRC	STMA	Tapped large-diameter type (D16~25)	<p>RT(※)→If P<8, tip is rounded for safety. To keep the sharp tip (no rounding), specify RT=0. (RT=0 cannot be selected with HW coating.) (If P≥8, the tip end is flat. P.1592) For the length of tip R, refer to the products data "Punch R length". P.1592</p>
			PSTMA		
	D _{+0.005/0}	Equivalent to SKD11 60~63HRC	A-STMA		
			A-PSTMA		
	D _{m5}	Equivalent to SKD11 60~63HRC	TPMA	Tapped large-diameter type (D16~25)	
			PTPMA		
D _{+0.005/0}	Equivalent to SKD11 60~63HRC	A-TPMA			
		A-PTPMA			
—Tapered tip type— RoHS	D _{m5}	Equivalent to SKD11 60~63HRC	ATMA	Tapped large-diameter type (D16~25)	<p>R0.1~0.3(R=0 can be selected.) G±30° Tip length (B) X>L>S Tapped large-diameter type S:L only</p>
			ATMLA		
	D _{+0.005/0}	Equivalent to SKD11 60~63HRC	ATMA		
			ATMLA		
	D _{m5}	Equivalent to SKD11 60~63HRC	PATMA		
			A-PATMA		
D _{+0.005/0}	Equivalent to SKD11 60~63HRC	A-PATMA			
		A-PATMA			
—Sharp tip angle type— RoHS	D _{m5}	Equivalent to SKD11 60~63HRC	ATMA	Tapped large-diameter type (D16~25)	<p>R0.1~0.3(R=0 can be selected.) A±30° Tip is rounded for safety. To keep the sharp tip (no rounding), specify RT=0. (RT=0 cannot be selected with HW coating.)</p>
			PATMA		
	D _{+0.005/0}	Equivalent to SKD11 60~63HRC	A-ATMA		
			A-PATMA		
	D _{m5}	Equivalent to SKD11 60~63HRC	ATMA		
			ATMLA		
D _{+0.005/0}	Equivalent to SKD11 60~63HRC	A-ATMA			
		A-PATMA			

Type	Catalog No.	B tip length	D	L		0.01mm increments min. P max.	A	B	Y	M	
				Standard	Large-diameter						
Normal (D _{m5}) Equivalent to SKD11 Tapped large-diameter type (D16~25) Powdered high-speed steel	STMA TPMA ATMA A-STMA A-TPMA A-ATMA PSTMA PTPMA PATMA	S	5	42	52	62 (72)	(10) (15) (20) 25 30	10	3	3	—
				6	72	82 (92)					
				8	82	92 (102)					
				10	92	102 (112)					
				13	102	112 (122)					
				16	112	122 (132)					
				20	132	142 (152)					
				25	182	192 (202)					
				25	242	252 (262)					
		L	5	52	62 (72)	(10) (15) (20) 25 30	15	3	3	—	
				6	72						82 (92)
				8	82						92 (102)
				10	92						102 (112)
				13	102						112 (122)
				16	112						122 (132)
				20	132						142 (152)
				25	152						162 (172)
				25	212						222 (232)
X	5	52	62 (72)	(10) (15) (20) 25 30	27	3	3	—			
		6	72						82 (92)		
		8	82						92 (102)		
		10	92						102 (112)		
		13	102						112 (122)		
		16	112						122 (132)		
		20	132						142 (152)		
		25	152						162 (172)		
		25	212						222 (232)		

(L(42)→B=10 If full length L is (42), tip length B is 10mm in all cases.
 (L(72) (92) (102)→L72 of D5-6 and L92-102 of D8-25 can be used for tip R types and tapered tip types only.
 (A(10)→If P≥6.0, A10 cannot be selected. (A(15)→If P≥15.0, A15 cannot be selected. (A(20)→If P≥20.0, A20 cannot be selected.

Order

Catalog No.	L	P	A	(RT=0/R=0)
A-STMAS 6	72	P5.02		RT0
PTPMAS 6	52	P4.97		
A-ATMAL 10	52	P3.40	A15	R0

(A) 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)	P(PC)	A	(RT=0/R=0)	(BC·YC...etc.)
TPMAS 13	82	P8.24			KC -LK

Alteration	Code	Tip R type	Tapered tip and sharp tip angle types	1Code
Alterations to tip	PC	Tip diameter change PC ≥ P _{min.} 0.01mm increments (If combined with PKC, 0.001mm increments can be selected.)	Tip diameter change PC ≥ P _{min.} 0.01mm increments (If combined with PKC, 0.001mm increments can be selected.) Y _{max.} = YC _{max.}	Quotation
	BC	Tip length change 2 ≤ BC ≤ B _{max.} 0.1mm increments Full length L must be at least +30mm longer than tip length BC.		
	RLC	Tip R is cut flat. 2 ≤ RLC < Y < 8 Y = √P(10-P/4) 0.1mm increments		
	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 ≤ L _{max.} + 8 0.1mm increments Cannot be used for sharp tip angle types.		

Alteration	Code	Tip R type	Tapered tip and sharp tip angle types	1Code
Alterations to tip	PKC	Tip diameter P + 0.01 tolerance change 0 → +0.005	P dimension can be selected in 0.001mm increments.	Quotation
	SC	Lapping of tip P dimension tolerance remains the same. R=0 and RT=0 cannot be selected.		
Alterations to full length	LC	Full length change 30 + B (BC) ≤ LC < L 0.1mm increments If difference between full length and tip length is 30mm or less, tip length is adjusted to (Full length - 30mm).		Quotation
	LKC	Full length tolerance change L + 0.3 → +0.05		
Alterations to head	KC	Addition of single key flat Cannot be used for D5.		Quotation
	WKC	Addition of double key flats in parallel Cannot be used for D5.		
Shank	SKC	Single key flat on shank P ≤ D - 2.2 Cannot be combined with KC-WKC. Cannot be used for D5-6.		Quotation

Price

Quotation

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