
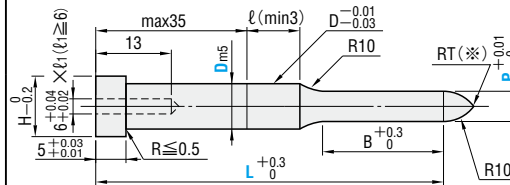

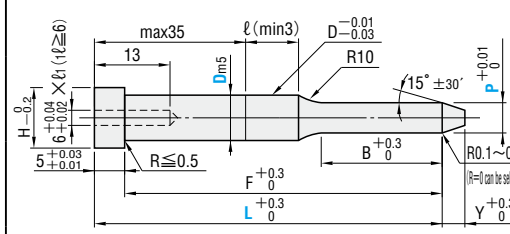

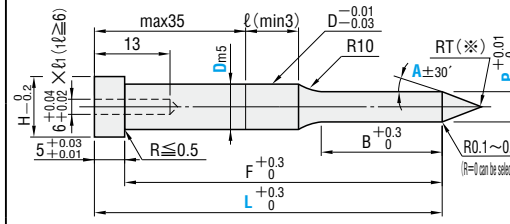


PILOT PUNCHES WITH LOCATING DOWEL HOLES

—NORMAL · TiCN COATING · HW COATING · DICOAT® TREATMENT—



Type	Shank diameter D Tolerance	M F	Catalog No.		Shape
			Type	With dowel hole	
—Tip R type— 	D _{m5}		Equivalent to SKD11 60~63 HRC	STA	 <p>MS6—25 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, tip end is flat. P.1592) For the length of tip R, refer to the products data "Punch R length". P.1592</p>
			Equivalent to SKD11 60~63 HRC Surface 3000 HV	TiCN coating H—STA	
			Equivalent to SKD11 60~63 HRC Surface 3000 HV	HW coating HW—STA	
			Equivalent to SKD11 60~63 HRC Surface 3000 HV	Dicoat® treatment T—STA	
—Tapered tip type— 	D _{m5}		Equivalent to SKD11 60~63 HRC	TPA	 <p>MS6—25 Tip is rounded for safety. To keep the sharp tip (no rounding), specify RT=0. (RT=0 cannot be selected with HW coating.)</p>
			Equivalent to SKD11 60~63 HRC Surface 3000 HV	TiCN coating H—TPA	
			Equivalent to SKD11 60~63 HRC Surface 3000 HV	HW coating HW—TPA	
			Equivalent to SKD11 60~63 HRC Surface 3000 HV	Dicoat® treatment T—TPA	
—Sharp tip angle type— 	D _{m5}		Equivalent to SKD11 60~63 HRC	ATA	 <p>MS6—25 Tip is rounded for safety. To keep the sharp tip (no rounding), specify RT=0. (RT=0 cannot be selected with HW coating.)</p>
			Equivalent to SKD11 60~63 HRC Surface 3000 HV	TiCN coating H—ATA	
			Equivalent to SKD11 60~63 HRC Surface 3000 HV	HW coating HW—ATA	
			Equivalent to SKD11 60~63 HRC Surface 3000 HV	HW coating HW—ATA	

Type	Shank diameter D	Tip length B	With dowel hole	Catalog No.		L	0.01mm increments min. P max.	A	B	H	Y
				Type	With dowel hole						
—Normal— STA TPA ATA	D _{m5}	S		(42)	52 62 72 82 92 102 112 122 (132) (142)	10	3.00~9.99 (10)	15	15	13	5
						13	6.00~12.99 (15)				
						16	10.00~15.99 (20)				
						20	13.00~19.99 (25)				
						25	18.00~24.99 (30)				
—TiCN coating— H—STA H—TPA H—ATA	D _{m5}	L		52	62 72 82 92 102 112 122 (132) (142)	10	3.00~9.99 (10)	21	13	5	
						13	6.00~12.99 (15)				
						16	10.00~15.99 (20)				
						20	13.00~19.99 (25)				
						25	18.00~24.99 (30)				
—Dicoat® treatment— T—STA T—TPA	D _{m5}	L		62	72 82 92 102 112 122 (132) (142)	10	3.00~9.99 (10)	27	13	5	
						13	6.00~12.99 (15)				
						16	10.00~15.99 (20)				
						20	13.00~19.99 (25)				
						25	18.00~24.99 (30)				
—HW coating— HW—STA HW—TPA HW—ATA	D _{m5}	X		72	82 92 102 112 122 (132) (142)	10	3.00~9.99 (10)	32	13	5	
						13	6.00~12.99 (15)				
						16	10.00~15.99 (20)				
						20	13.00~19.99 (25)				
						25	18.00~24.99 (30)				

Ⓛ (42) → B=10 If full length L is (42), tip length B is 10mm in all cases.
 Ⓛ (132) (142) → L132 and 142 can be used for tip R types and tapered tip types only.
 P > D - 0.03 → ℓ = 0 If P > D - 0.03, D_{-0.01}^{0.01} (press-in lead) is not included.
 A (10) → If P ≥ 9.0, 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)
 STASC 10 — 72 — P5.50
 H—ATASC 10 — 62 — P3.80 — A20 — R0
 Days to Ship **Quotation**
 Alterations **Catalog No.** — L (LC) — P (PC) — A — (RT=0) — (BC·YC·HC, etc.)
 STASC 16 — 72 — PC8.505 — PKC

Alterations to full length
 Alterations to head
 Alterations to tip
 Alterations to shank
 Others

Alteration	Code	Tip R type	Tapered tip and sharp tip angle types	1Code
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).		
	LKC	Full length tolerance change L +0.3 / 0 ⇔ +0.05 / 0 TiCN coating, HW coating, and Dicoat® treatment cannot be used.		
Alterations to head	HC	Head diameter change D ≤ HC < H 0.1mm increments		
	TC	Head thickness change 2 ≤ TC < 5 0.1mm increments Full length L is shortened by (5-TC). If combined with LC, full length is equal to LC.		
Alterations to tip	KC	Addition of single key flat to head		
	WKC	Addition of double key flats in parallel		
Alterations to shank	FKC	Dimension tolerance change F +0.3 / 0 ⇔ +0.05 / 0 TiCN coating, HW coating, and Dicoat® treatment cannot be used. Cannot be combined with LKC.		
	NDC	No press-in lead ℓ ≥ 3 ⇔ ℓ = 0		
Others	TPC	Dowel pin change MS6—25 that comes with the product is changed to MSTP6—25 (tapped type).		

Price **Quotation**

PILOT PUNCHES