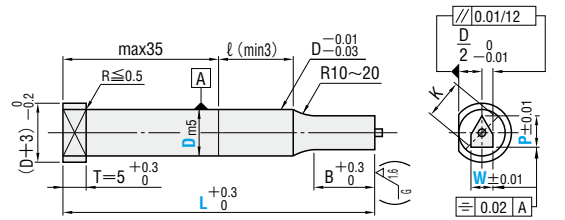




# SPECIAL SHAPED JECTOR PUNCHES

RoHS	Type	Applicable shank diameter	M	H	Catalog No.			
					Normal	TiCN coating Surface hardness 3000HV	WPC® treatment Surface hardness 1000~1100HV	HW coating Surface hardness 3000HV
	Shoulder type	5~25	(D5~6) Equivalent to SKH51 (D8~25) Equivalent to SKD11	(D5~6) 61~64HRC (D8~25) 60~63HRC	SJ	—	W-SJ	—
			Powdered high-speed steel	64~67HRC	PJ	H-PJ	W-PJ	HW-PJ
	With locating dowel hole	10~45 (L≥60)	Equivalent to SKD11	60~63HRC	SJ-C	(D10~25) H-SJ-C	W-SJ-C	(D10~25) HW-SJ-C

**Tip shape**  
Select from the shapes shown on P.715.



⊙ SJ-C T=5+0.03  
T=5+0.01

(Example of tip shape)

Ⓐ Dowel pin MS6-25 (with locating dowel hole only)

⊙ The tip edges of a WPC® treatment or HW coating type are slightly rounded.

⊙ The tip end of a TiCN coating punch is ground before the coating is applied.

Catalog No.		Shape	D	L	P·K max.	P·W min.	B
Type	Coating/Treatment						
D5~25	SJ	2H~12H	5	(40) 50 60 70 80	4.90	2.00	8
		2J~18J	6		5.90	2.00	
D5~25	PJ	3K~29K	8		7.90	3.00	13
		2L~7L	10		9.90	3.00	
D10~45	SJ-C	8L (With locating dowel hole only)	13	(40) (50) (60) 70 80 90 100	12.90	6.00	19
			16		15.90	6.00	
D10~25 L≥60	H-SJ-C	Tip shape Select from the shapes shown on P.715.	20		19.90	6.00	19
			25		24.90	6.00	
			32	70 80 90 100 110 120	31.90	7.00	
			38	80 90 100 110 120	37.90	8.00	
			45		44.90	9.00	

⊙ L(40)→B=6 If full length is (40), tip length is 6mm in all cases.

⊙ L(50)→B=13 If full length is (50), tip length is 13mm in all cases.

⊙ SJ-C→L≥60 Specifications with L<60 are not available. If full length is (60), tip length is 13mm in all cases.

⊙ Jector hole and machining limit

D	J
5~8	1.0
10~13	1.5
16~32	2.0
38~45	4.0

⊗ For TiCN coating, WPC® treatment, and HW coating types, 10J-13J-5K-10K-18K cannot be used.

Order	Catalog No.	L	P·W·A·B·C·Q·R·S...0.01mm increments
	SJ3K25	80	P18.00-W16.00-A8.00
	W-SJ29K10	80	P 7.00-W 5.00

Days to Ship **Quotation**

Alterations	Catalog No.	L (LC)	P·W·A·B·C·Q...	(BC·HC·TC, etc.)
	SJ3K25	LC75	P18.00-W16.00-A8.00	BC13-KFC225

Alteration	Code	Spec.	1Code
Alterations to tip	BC	Tip length change 2≤BC<B 0.1mm increments ⊙ If D≥32 for shapes 9J~13J-16J-K-L, tip length B is as indicated in the table below.	Quotation
	PKC	Tip tolerance change P·W±0.01→+0.01 0 ⊗ Cannot be used for D≥32. ⊙ Can be used for normal types only.	
Alterations to full length	LC	Full length change LC<L 0.1mm increments ⊙ Tip length B is shortened by (L-LC). ⊙ If D≥32 for 9J~13J-16J-K-L, tip length B is as indicated in the table below.	Quotation
	LKC	Full length tolerance change L+0.3→+0.05 0 0	
Alterations to head	LKZ	Full length tolerance change L+0.3→+0.01 0 0 ⊗ Cannot be used for D>25. ⊙ Can be used for normal types only.	Quotation
	HC	Head diameter change D≤HC<D+3 0.1mm increments	
Alterations to shank	TC	Head thickness change 3.5≤TC<5 0.1mm increments ⊙ Full length L is shortened by (5-TC). ⊙ If combined with LC, full length is equal to LC.	Quotation
	KC	Key flat position change 1° increments	

P Price **Quotation**

Alteration	Code	Spec.	1Code
Alterations to head	WKC	⊙ Addition of double key flats in parallel	Quotation
	KFC	⊙ Double key flats at 0° and a selected angle 1° increments ⊗ Cannot be combined with KC-WKC.	
	TCC	Chamfering of head This improves the strength of the punch head. P.1611 0.1 mm increments 0.5≤TCC≤(H-D)/2 ⊙ If H≤5, then TCC is 0.5. ⊗ Cannot be combined with SRC.	
	RC	Head thickness is machined to a tolerance of -0.04~0 relative to the retainer surface. ⊙ Can be used for shoulder punches only.	
Others	TKC	Head thickness tolerance change +0.3→+0.02 0 0 ⊙ Can be used for shoulder punches only.	Quotation
	TKM	Head thickness tolerance change +0.3→0 0 -0.02 ⊙ Can be used for shoulder punches only.	
Alterations to shank	AC	The jector pin is removed to create an air path and the side vent hole is plugged from the inside.	Quotation
	NC	The jector pin is removed. ⊗ Cannot be combined with AC.	
Alterations to shank	SKC	⊙ Single key flat on shank ⊙ Can be used for normal types only. ⊗ Cannot be used for D>25. ⊗ Cannot be used for 2L, 3L. (However this restriction does not apply to 9H, 12H, 18J, 2L, 3L.) ⊙ D5-6 (Machining width 0.5) W≤D-1.2 ⊙ D8~ (Machining width 1) W≤D-2.2 ⊙ 8H, 12H, 18J ⊙ D5-6 (Machining width 0.5) P·K≤D-1.2 ⊙ D8~ (Machining width 1) P·K≤D-2.2	Quotation