

JECTOR PUNCHES WITH LOCATING DOWEL HOLES

— FINISHED FOR RETAINERS · TiCN COATING —



Calculating the projection length of the jector pin (reference value) **P.241**

For details of jector holes, refer to Jector Punch Blanks. **P.236**
For details of jector pins, refer to Jector Pin Sets. **P.241**

Type	A	Shank diameter D tolerance	M	Catalog No.				The tip shape can be selected from Tip shape A~G in the figure below.
				Type	Tip shape	B length	With dowel hole	
TiCN coating with locating dowel hole	Dowel pin MS6-25	Dm5	Equivalent to SKD11 60~63HRC Surface 3000HV	H-SJ H-SJV H-SJV	A D R E G	S L X	-C	<p>The tip end is ground before the coating is applied. Tip length (B) X>L>S</p>

RoHS

Tip shape A

Tip shape D

Tip shape R

Tip shape E

Tip shape G

Catalog No.	Type	D	L									0.01mm increments			B	H
												A	D R E G	R		
												min. P max.	P.Kmax.	P.Wmin.		
S	H-SJAS-C	10	60	70	80	90	100	110	120	3.00~9.99	9.97	3.00	0.15 ≤ R < W/2	13	13	
	H-SJVAS-C	13	60	70	80	90	100	110	120	6.00~12.99	12.97	6.00		16	16	
	H-SJDS-C	16	(60)	70	80	90	100	110	120	10.00~15.99	15.97	6.00		19	19	
	H-SJRS-C	20	(60)	70	80	90	100	110	120	13.00~19.99	19.97	6.00		23	23	
	H-SJES-C	25	(60)	70	80	90	100	110	120	18.00~24.99	24.97	6.00		28	28	
	H-SJGS-C	20	(60)	70	80	90	100	110	120	18.00~24.99	24.97	6.00		28	28	
	L	H-SJAL-C	10	70	80	90	100	110	120	3.00~9.99	9.97	3.00		19	13	
		H-SJVAL-C	13	70	80	90	100	110	120	6.00~12.99	12.97	6.00		19	16	
		H-SJDL-C	16	70	80	90	100	110	120	10.00~15.99	15.97	6.00		19	19	
		H-SJRL-C	20	70	80	90	100	110	120	13.00~19.99	19.97	6.00		25	23	
H-SJEL-C		25	70	80	90	100	110	120	18.00~24.99	24.97	6.00	28	28			
H-SJVL-C		25	70	80	90	100	110	120	18.00~24.99	24.97	6.00	28	28			
X	H-SJAX-C	10	80	90	100	110	120	6.00~9.99	9.97	6.00	-	30	13			
	H-SJVAX-C	13	80	90	100	110	120	6.00~12.99	12.97	6.00		30	16			
	H-SJDX-C	16	100	110	120	10.00~15.99	15.97	6.00	19	19						
	H-SJRX-C	20	100	110	120	13.00~19.99	19.97	6.00	23	23						
	H-SJEX-C	25	100	110	120	18.00~24.99	24.97	6.00	28	28						
	H-SJGX-C	25	100	110	120	18.00~24.99	24.97	6.00	28	28						

The spring constant of H-SJV□□-C is twice that of H-SJ□□-C.
L(60)→B=13 If the full length is (60), the tip length is 13 mm in all cases.
A: P>D-0.03→ℓ=0 If P>D-0.03 for a round punch, D-0.01 (press-in lead) is not included.
D R E G: P·K>D-0.05→ℓ=0 If P·K>D-0.05 for a shaped punch, D-0.01 (press-in lead) is not included.

Order **Catalog No.** - L - P - W - R (R only)
H-SJEL-C 16 - 70 - P12.00 - W6.00

Days to Ship **Quotation**

Effect of spring reinforced type
The spring constant is twice that of a standard type jector punch. The large spring load results in more effective scrap removal.

Finished for retainer
For details on retainers, refer to P.731 and later pages.

Alterations **Catalog No.** - L(LC) - P(PC) - W(WC) - R - (BC-HC-TC, etc.)
H-SJAS-C 10 - LC95 - P9.50 - PKC

Alteration	Code	A	D R E G	1Code
Alterations to tip	PC WC	Tip dimension change PC ≥ PCmin. 0.01 mm increments (If combined with PKC, 0.001 mm increments can be selected.)	Tip dimension change PC·WC ≥ PC·WCmin. 0.01 mm increments ⊗ Cannot be used for tip length X.	
	BC	Tip length change (shorter than standard) 2 ≤ BC < B 0.1 mm increments		
	SC	Lapping of tip ⊙ P dimension tolerance and increment are the same. The base material is finished before the coating is applied. ⊗ R=0 cannot be selected for the tip shape D corners.		
	PRC	Rounding of tip side edge 0.3 ≤ PRC ≤ 1 0.1 mm increments ⊙ PRC ≤ (P-d, -0.5)/2 ⊙ dimension details P.236 ⊗ Cannot be combined with PCC.		Quotation
	PCC	Chamfering to tip side edge 0.3 ≤ PCC ≤ 1 0.1 mm increments ⊙ PCC ≤ (P-d, -0.5)/2 ⊙ dimension details P.236 ⊗ Cannot be combined with PRC.		
	PKC	Tip tolerance change P+0.01 ⇔ +0.005 ⊙ (P dimension can be selected in 0.001 mm increments.) ⊗ Cannot be used for D>13.	Tip tolerance change P·W ± 0.01 ⇔ +0.01 ⊗ Cannot be used for D>13.	
Alterations to full length	LC	Full length change (reduction in tip length) LC < L 0.1 mm increments ⊙ Tip length B is reduced by (L-LC). (If combined with LKC, 0.01 mm increments can be selected.) ⊙ Projection length of jector pin is 2 mm.		
	LKC	Full length tolerance change L+0.3 ⇔ +0.05 0 0		

P Price **Quotation**

Alteration	Code	A	D R E G	1Code
Alterations to head	KC	Addition of single key flat to head	Key flat position change 1° increments	
	WKC	Addition of double key flats in parallel	Double key flats in parallel Can be combined with KC.	
	KFC	Double key flats at 0° and a selected angle 1° increments ⊗ Cannot be combined with KC·WKC.	Double key flats at 0° and a selected angle 1° increments ⊗ Cannot be combined with KC·WKC.	
	NKC	No key flat		
	HC	Head diameter change D ≤ HC < H 0.1 mm increments		
	TC	Head thickness change 3.5 ≤ TC < 5 0.1 mm increments ⊙ Full length L is shortened by (5-TC). If combined with LC, full length is equal to LC.		Quotation
TCC	Chamfering of head This improves the strength of the punch head. P.1611 0.5 ≤ TCC ≤ (H-D)/2			
Alterations to shank	AC	The jector pin is removed to create an air path and the side vent hole is plugged from the inside by inserting a resin (ABS) ring.		
	NC	The jector pin is removed. ⊗ Cannot be combined with AC.		
	TPC	Dowel pin change MS6-25 that comes with the product is changed to MSTP6-25 (tapped type).		
NDC	No press-in lead ℓ ≥ 3 ⇔ ℓ = 0			

PUNCHES