

JECTOR PUNCHES WITH LOCATING DOWEL HOLES


— FINISHED FOR RETAINERS · DICOAT® TREATMENT —



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	With dowel hole	
Jector with locating dowel hole, Dicoat® treatment	Dowel pin D10~32 MS6-25 D38-45 SJB-CMS	Dm5	Equivalent to SKD11 60~63HRC Surface 3000HV	T-SJ T-SJV	S L	-C	



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			
			min.	P	max.	P	max.	P	min.	R	R					
S	Spring reinforced type (D10~32)	10	60	70	80	90	100	3.00	9.99	9.97	3.00	0.15 ≤ R < W/2	13	13		
		13	(60)	70	80	90	100	6.00	12.99	12.97	6.00		16	16		
		16	(60)	70	80	90	100	10.00	15.99	15.97	6.00		19	19		
		20	(60)	70	80	90	100	13.00	19.99	19.97	6.00		23	23		
		25	(60)	70	80	90	100	18.00	24.99	24.97	6.00		28	28		
		32	(60)	70	80	90	100	20.00	31.99	31.97	7.00		35	35		
		(38)	(60)	70	80	90	100	28.00	37.99	37.97	8.00		41	41		
		(45)	(60)	70	80	90	100	35.00	44.99	44.97	9.00		48	48		
		L	Spring reinforced type (D10~32)	10	70	80	90	100	3.00	9.99	9.97		3.00	0.15 ≤ R < W/2	19	13
				13	70	80	90	100	6.00	12.99	12.97		6.00		19	16
16	70			80	90	100	10.00	15.99	15.97	6.00	19	19				
20	70			80	90	100	13.00	19.99	19.97	6.00	23	23				
25	70			80	90	100	18.00	24.99	24.97	6.00	28	28				
32	70			80	90	100	20.00	31.99	31.97	7.00	35	35				
(38)	70			80	90	100	28.00	37.99	37.97	8.00	41	41				
(45)	70			80	90	100	35.00	44.99	44.97	9.00	48	48				

The spring constant of T-SJV□□-C is twice that of T-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_{-0.03} (press-in lead) is not included.
 R E G: P·K>D-0.05→ℓ=0 If P·K>D-0.05 for a shaped punch, D_{-0.03} (press-in lead) is not included.
 D(38) and (45) are specifications available for T-SJ□□-C only. Spring reinforced types are available for D10~32 only.

Order **Catalog No.** — L — P — W — R (R only)
 T-SJAS-C 25 — 100 — P18.05

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.

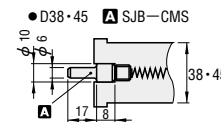
Alterations **Catalog No.** — L(LC) — P — W — R — (BC·HC·TC, etc.)
 T-SJDS-C 38 — 100 — P20.00 — W10.00 — BC13

Alteration	Code	A	D R E G	1Code
Alterations to tip	BC	Tip length change (shorter than standard) 2 ≤ BC < B 0.1 mm increments		
	PRC	Rounding of tip side edge 0.3 ≤ PRC ≤ 1 0.1 mm increments PRC ≤ (P-d, -0.5)/2 d, dimension details P.236		
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 2mm.		
	LKC	Full length tolerance change L +0.3 0 → +0.05 0		
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	Double key flats at 0° and a selected angle 1° increments	
	NKC	No key flat		

Alteration	Code	A	D R E G	1Code
Alterations to head	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.		
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.		
Alterations to shank	TPC	Dowel pin change MS6-25 that comes with the product is changed to MSTP6-25 (tapped type). Cannot be used for D38-45.		
	NDC	No press-in lead ℓ ≥ 3 → ℓ = 0		

ex Example

Uses of punches with locating dowel holes
 This type of punch is mainly used with dies for parts such as automobile bodies, in combination with a retainer that holds the punch. Rather than indirect positioning using the retainer dowel hole, these punches can be positioned directly using the dowel hole machined on the punch axis, improving die accuracy. These punches are particularly effective when used for die machining with NC machines. This type of punch can be also used with dies for the external panels of electrical appliances, either in combination with a retainer, or attached to the punch plate of an ordinary progressive die.



Finished for retainer
 For details on retainers P.731 and later pages.
 Optional backing plates are available. Only the backing plates for φ38·φ45 punches have a φ10.2 hole for a stepped dowel pin. P.236

P Price

Quotation