

JECTOR PUNCHES WITH LOCATING DOWEL HOLES

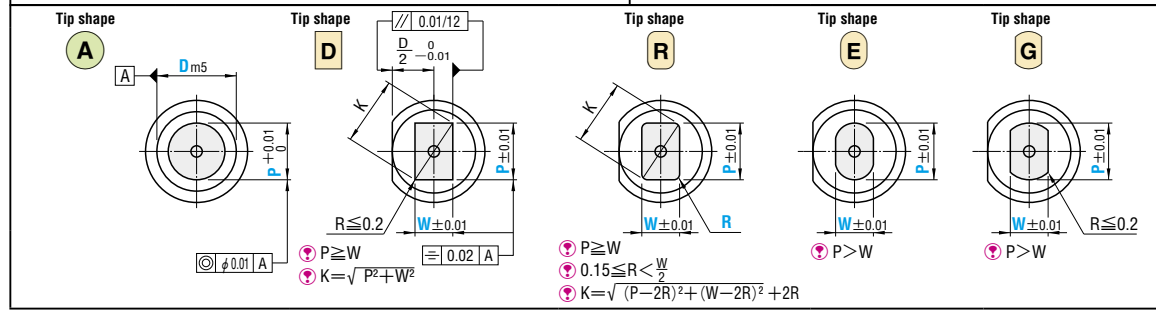
— FINISHED FOR RETAINERS · WPC® TREATMENT · HW COATING —



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	Tip length	With dowel hole	
WPC® treatment with locating dowel hole	Dowel pin D10~32 MS6-25	Dm5	Equivalent to SKD11 60~63HRC Surface 1000~1100HV	W-SJ Spring reinforced type	A D	S	-C	
HW coating with locating dowel hole	D38-45 SJB-CMS		Equivalent to SKD11 60~63HRC Surface 3000HV	W-SJV Spring reinforced type	L E G	X		



Catalog No.	Type	D	L								0.01mm increments			B	H
			60	70	80	90	100	110	120	min. P	max. P	P-Kmax.	P-Wmin.		
-WPC® treatment-	W-SJ□S-C	10	60	70	80	90	100	110	120	3.00	9.99	9.97	3.00	13	13
	W-SJV□S-C	13	60	70	80	90	100	110	120	6.00	12.99	12.97	6.00		16
	W-SJ□L-C	16	60	70	80	90	100	110	120	10.00	15.99	15.97	6.00		19
	W-SJV□L-C	20	60	70	80	90	100	110	120	13.00	19.99	19.97	6.00		23
	W-SJ□S-C	25	60	70	80	90	100	110	120	18.00	24.99	24.97	6.00		28
	W-SJV□S-C	(32)	60	70	80	90	100	110	120	20.00	31.99	31.97	7.00		35
-HW coating-	W-SJ□S-C	(38)	60	70	80	90	100	110	120	28.00	37.99	37.97	8.00	41	
	W-SJV□S-C	(45)	60	70	80	90	100	110	120	35.00	44.99	44.97	9.00	48	
	W-SJ□L-C	10	70	80	90	100	110	120	3.00	9.99	9.97	3.00	19	13	
	W-SJV□L-C	13	70	80	90	100	110	120	6.00	12.99	12.97	6.00		16	
	W-SJ□L-C	16	70	80	90	100	110	120	10.00	15.99	15.97	6.00		19	
	W-SJV□L-C	20	70	80	90	100	110	120	13.00	19.99	19.97	6.00		23	
W-SJ□L-C	25	70	80	90	100	110	120	18.00	24.99	24.97	6.00	28			
W-SJV□L-C	(32)	70	80	90	100	110	120	20.00	31.99	31.97	7.00	35			
-WPC® treatment-	W-SJ□X-C	10	80	90	100	110	120	6.00	9.99	9.97	6.00	25	41		
	W-SJV□X-C	13	80	90	100	110	120	6.00	12.99	12.97	6.00		48		
	W-SJ□X-C	16	100	110	120	10.00	15.99	30	19						
	W-SJV□X-C	20	100	110	120	13.00	19.99		23						
	W-SJ□X-C	25	100	110	120	18.00	24.99		28						
	W-SJV□X-C	32	100	110	120	20.00	31.99		35						
W-SJ□X-C	38	100	110	120	28.00	37.99	41								
W-SJV□X-C	(45)	100	110	120	35.00	44.99	48								

The spring constants of W-SJV□□-C and HW-SJV□□-C are twice those of W-SJ□□-C and HW-SJ□□-C respectively.
L(60)~B=13 If full length is (60), 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.
DREG: 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.
D(32) is a specification available for W-SJ and W-SJV only.
D(38) and (45) are specifications available for W-SJ only.
W-SJV is available for D10~32 only, and HW-SJV is available for D10~25 only.

Order **Catalog No.** — L — P — W — R (® only)
W-SJDS-C 38 — 100 — P30.00 — W18.00

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(PC) — W(WC) — R — (BC-HC-TC, etc.)
W-SJAS-C 25 — LC95 — P18.05 — PKC

Alteration	Code	A	DREG	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 X.)	
	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 P236 (Cannot be combined with PC.)		
	PCC	Chamfering to tip side edge 0.3≤PCC≤1 0.1 mm increments PCC≤(P-d,-0.5)/2 d, dimension details P236 (Cannot be combined with PRC.)		
	PKC	Tip tolerance change P+0.01 ⇨ +0.005 0 ⇨ 0 (P dimension can be selected in 0.001 mm increments.) (HW coating cannot be used for D>13)	Tip tolerance change P-W±0.01 ⇨ +0.01 0 ⇨ 0	
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		
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	

Price **Quotation**

Alteration	Code	A	DREG	1Code
Alterations to head	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.)		
	TCC	Chamfering of head This improves the strength of the punch head. P.1611 0.1 mm increments 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). (Cannot be used for D38-45.)		
	NDC	No press-in lead l≥3 ⇨ l=0		

Quotation

PUNCHES