

TAPPED JECTOR PUNCHES

—NORMAL · WPC® TREATMENT—



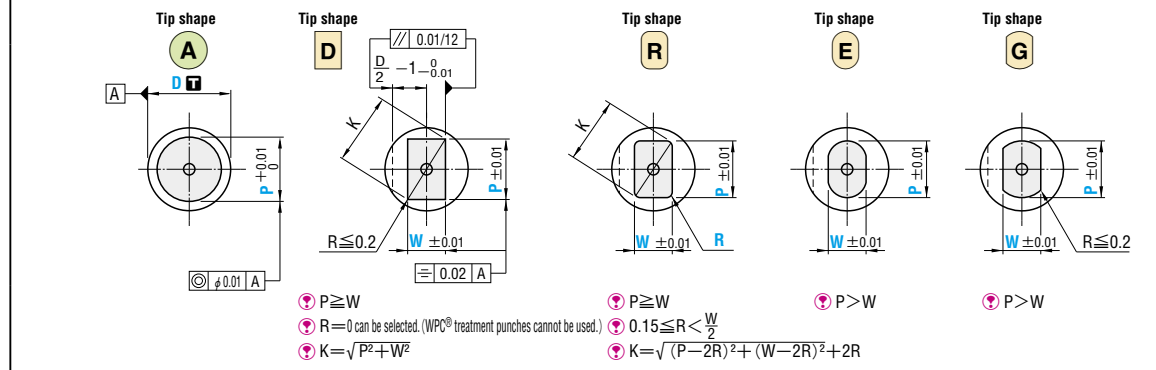
Calculating the projection length of the jector pin (reference value) **P.241**

• For details of jector holes, refer to Jector Punch Blanks. **P.238**
• For details of jector pins, refer to Jector Pin Sets. **P.241**

Type	Shank diameter D _T tolerance	M H	Catalog No.			The tip shape can be selected from Tip shape A~G in the figure below.	
			Type	Tip shape	Tip length ^B		
—Normal— RoHS	D _{m5}	Equivalent to SKD 11 60~63HRC	MJ	A	S		
—WPC® treatment—			W-MJ	D	L		
	D ^{+0.005} / ₀	WPC® treatment 60~63HRC Surface 1000~1100HV	A-MJ	E			
			AW-MJ	G			

For shank diameter tolerance D_T, select either m5 or ^{+0.005}/₀.

The tip edge of a WPC® treatment punch is very slightly rounded.



Type	Catalog No.	Tip shape	Tip length ^B	D	L										0.01mm increments			B	M
															A	D R E G	R		
															min. P max.	P·Kmax.	P·Wmin.		
(D _{m5}) MJ	A-MJAL 13	A	S	6	(40)	50	60	70	80	90	100	2.00~	5.99	5.97	2.00	0.15≤R<W/2 (R only)	8	3	
				8	(40)	50	60	70	80	90	100	3.00~	7.99	7.97	3.00				
				10	(40)	50	60	70	80	90	100	3.00~	9.99	9.97	3.00				
				13	(40)	50	60	70	80	90	100	6.00~	12.99	12.97	6.00				
				16	(40)	(50)	60	70	80	90	100	10.00~	15.99	15.97	6.00				
—WPC® treatment— W-MJ	A-MJAL 13	D	L	6	(40)	50	60	70	80	90	100	2.00~	5.99	5.97	2.00	0.15≤R<W/2 (R only)	13	6	
				8	(40)	50	60	70	80	90	100	3.00~	7.99	7.97	3.00				
				10	(40)	50	60	70	80	90	100	3.00~	9.99	9.97	3.00				
				13	(40)	50	60	70	80	90	100	6.00~	12.99	12.97	6.00				
				16	(40)	(50)	60	70	80	90	100	10.00~	15.99	15.97	6.00				
(D ^{+0.005} / ₀) A-MJ	A-MJAL 13	E	L	6	(40)	50	60	70	80	90	100	2.00~	5.99	5.97	2.00	0.15≤R<W/2 (R only)	13	3	
				8	(40)	50	60	70	80	90	100	3.00~	7.99	7.97	3.00				
				10	(40)	50	60	70	80	90	100	3.00~	9.99	9.97	3.00				
				13	(40)	50	60	70	80	90	100	6.00~	12.99	12.97	6.00				
				16	(40)	(50)	60	70	80	90	100	10.00~	15.99	15.97	6.00				
—WPC® treatment— AW-MJ	A-MJAL 13	G	L	6	(40)	50	60	70	80	90	100	2.00~	5.99	5.97	2.00	0.15≤R<W/2 (R only)	13	3	
				8	(40)	50	60	70	80	90	100	3.00~	7.99	7.97	3.00				
				10	(40)	50	60	70	80	90	100	3.00~	9.99	9.97	3.00				
				13	(40)	50	60	70	80	90	100	6.00~	12.99	12.97	6.00				
				16	(40)	(50)	60	70	80	90	100	10.00~	15.99	15.97	6.00				
				20	(40)	50	60	70	80	90	100	13.00~	19.99	19.97	6.00	25	6		
				25	(40)	50	60	70	80	90	100	18.00~	24.99	24.97	6.00				

• 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.

Order **Catalog No.** — **L** — **P** — **W** — **R (R only)**
A-MJAL 13 — 80 — P8.24

Days to Ship **Quotation**

Alterations **Catalog No.** — **L (LC)** — **P (PC)** — **W (WC)** — **R** — (BC·KC·WKC, etc.)
A-MJAL 13 — 80 — P8.24 — KC-LKC

Alteration	Code	A	D R E G	1Code
Alterations to full length	LC	Full length change LC<L (reduction in tip length) 0.1 mm increments (If combined with LKC-LKZ, 0.01 mm increments can be selected.) Tip length B is shortened by (L-LC). Projection length of jector pin is 2 mm.		
	LKC	Full length tolerance change L ₀ +0.3/+0.05		
Alterations to tip	LKZ	Full length tolerance change L ₀ +0.3/+0.01 Cannot be used with WPC® treatment.		
	BC	Tip length change (shorter than standard) 2≤BC<B 0.1 mm increments		
Alterations to tip	SC	Lapping of tip P dimension tolerance and increment are the same. R=0 cannot be selected for tip shape D corners. Cannot be used with WPC® treatment.		Quotation
	PRC	Rounding of tip side edge 0.3≤PRC≤1 0.1 mm increments PRC≤(P-d ₀ -0.5)/2 d ₀ dimension P.238 Cannot be combined with PCC. WPC® treatment, the tolerance is PRC±1.1.		
Alterations to tip	PCC	Chamfering of tip side edge 0.3≤PCC≤1 0.1 mm increments PCC≤(P-d ₀ -0.5)/2 d ₀ dimension P.238 Cannot be combined with PRC. For WPC® treatment, the tolerance is PCC±1.1.		
	PKC	Tip tolerance change P+0.01/+0.005/0 (P dimension can be selected in 0.001 mm increments.)	Tip tolerance change P·W±0.01/+0.01/0	

P Price **Quotation**

Alteration	Code	A	D R E G	1Code
Alterations to full length	KC	Full length change LC<L (reduction in tip length) 0.1 mm increments (If combined with LKC-LKZ, 0.01 mm increments can be selected.) Tip length B is shortened by (L-LC). Projection length of jector pin is 2 mm.		
	LKC	Full length tolerance change L ₀ +0.3/+0.05		
	LKZ	Full length tolerance change L ₀ +0.3/+0.01 Cannot be used with WPC® treatment.		
Others	KC	Addition of single key slot Key slot 90°/180° position change 1° increments		Quotation
	WKC	Addition of double key slots in parallel	Double key slots in parallel (Can be combined with KC.)	
	NKC	No key slot		
Others	SKC	Single key flat on shank D6 P≤D-1.2 W≤D-1.2 (Machining width 0.5) D8~ P≤D-2.2 W≤D-2.2 (Machining width 1) Cannot be combined with KC-WKC.		
	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.		

PUNCHES