



JECTOR DRAWING PUNCHES

—DLC 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.239

Type	M	H	S	Shank diameter D	Catalog No.
Regular type	Powdered high-speed steel	64 ~ 67HRC Surface 3000HV	DLC coating	4 ~ 25	N-PJ Foundation WPC® NW-PJ

B	H	Catalog No.		L	0.01mm increments		dmin.	
		Type	Shape		min. P max.	Vmin.		
8	7	—No foundation— N-PJ	2A ~ 4A	4	40 50 60 70 80	2.00 ~ 3.99	1.00	1.00
	8			5	2.00 ~ 4.99	2.00	2.00	
	9			6	2.00 ~ 5.99	2.00	2.00	
13	11	—Foundation WPC®— NW-PJ	5B ~ 7B	8	(40) (50) 60 70 80 90 100	3.00 ~ 7.99	3.00	3.00
	13			10		3.00 ~ 9.99	3.00	3.00
	16			13		6.00 ~ 12.99	6.00	6.00
19	19		3D ~ 7D	16	10.00 ~ 15.99	6.00	6.00	6.00
	23			20	13.00 ~ 19.99	6.00	6.00	
	28			25	18.00 ~ 24.99	6.00	6.00	

L (40) → B=6 If full length L is (40), tip length B is 6mm in all cases.
 L (50) → B=13 If full length L is (50), tip length B is 13mm in all cases.
 P > D - 0.03 → ℓ = 0 If P > D - 0.03, D_{-0.03}^{-0.01} (press-in lead) is not included.
 For the shapes with dimension d, pay special attention to dmin.

Order

Catalog No.	L	P·E·V·R·Q·A·K·F·S
N-PJ2C 16	70	P12.00-V9.50-A30-F65.0-S3

Days to Ship **Quotation**

Effects of DLC coating
 Effective for preventing adhesion during aluminum or copper blanking thanks to its low affinity for nonferrous metal. See the product data for details. P.1609

Alterations

Catalog No.	L (LC)	P·E·V·R·Q·A·K·F·S	(HC-TC...etc.)
N-PJ2C 16	LC75.0	P12.00-V9.50-A30-F65.0-S3	LKC

Alterations	Code	Spec.	1Code
	HC	Head diameter change D ≤ HC < H 0.1mm increments	
	TC	Head thickness change 3.5 ≤ TC < 5 0.1mm increments (if combined with TKC-TKM, 0.01mm increments can be selected.) Full length is shortened by (5-TC).	
	TCC	Chamfering of head This improves the strength of the punch head. P.1611 0.1mm increments 0.5 ≤ TCC ≤ (H-D)/2 If H ≤ 5, then TCC is 0.5.	
	KC	Addition of single key flat to head	Quotation
	WKC	Addition of double key flats in parallel	
	RC	Head thickness is machined to a tolerance of -0.04~0 relative to the retainer surface.	
	TKC	Head thickness tolerance change 5 ^{+0.3} / ₀ → +0.02/ ₀	
	TKM	Head thickness tolerance change 5 ^{+0.3} / ₀ → -0.02/ ₀	
	LC	Full length change LC < L 0.1mm increments Tip length B is reduced by (L-LC). Projection length of jector pin is 2mm.	
	LKC	L dimension tolerance change L ^{+0.3} / ₀ → +0.05/ ₀	

Alterations	Code	Spec.	1Code
	SC	Lapping of tip P dimension tolerance and increment remain the same. The base material is finished before the coating is applied. Cannot be used for foundation WPC® punches. Cannot be used for shapes 2A-2C-3C-4C-6C-3D-4D-5D-9D. Cannot be combined with AKC-KKC-RKC-QKC.	
	AKC	Angle A tolerance change A ± 30° → ± 10°	
	KKC	Angle K tolerance change K ± 30° → ± 10°	
	RKC	R dimension tolerance R ± 0.5 → ± 0.05 Can be used for 0.1 ≤ R ≤ 10. For foundation WPC®, R ± 0.1	Quotation
	QKC	Q dimension tolerance change Q ± 0.5 → ± 0.05 Can be used for 0.1 ≤ Q ≤ 10. For foundation WPC®, Q ± 0.1	
	NDC	No press-in lead ℓ ≥ 3 → ℓ = 0	
	AC	The jector pin is removed to create an air path and the side vent hole is plugged from the inside.	
	NC	The jector pin is removed. Cannot be combined with AC.	
	FKC	F dimension tolerance change F ^{+0.3} / ₀ → +0.05/ ₀	

Price **Quotation**