

PRODUCTS DATA

- 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.

W±0.01

P>W

\R≦0.2

Catalog No. The tip shape can be selected from Tip shape $A{\sim}G$ in the Type Shape В D 🖬 tolerance Ö figure below. /ithout foundation | Foundation WPC® | Tip shape | Tip length RoHS ℓ(min3) D = 0.01D = 0.03 N-PJ NW-PJ max35 R≦0.5 Dm5 64~67HR0 R10 Spring reinforced type Spring reinforced type D Surface N-PJV NW-PJV 3000HV ----and abov R -WPC® treatment- \Rightarrow Powdere AN-PJ ANW-PJ D+0.005 Steel 64~67HRC Surface Spring reinforced type | Spring reinforced type AŇ—PJV ANW—PJV For shank diameter tolerance D . The tip end is ground before the coating is applied. Tip length (B) The tip end is ground before the coating is applied.

L>S

The tip edges of foundation WPC® are slightly rounded. select either m5 or +0.005 and abov Tip shape Tip shape // 0.01/12 Tip shape Tip shape (**A**) R E A D D G

<u>W±0.01</u>

R=0 can be selected (However, not for

= 0.02 A

R≤0.2

foundation WPC®

 $\P K = \sqrt{P^2 + W^2}$

P≥W

Catalog No.											0.01m	m increm	ents			
Chana B				- L							A		€ G	R	В	Н
Туре	Tip shape	Tip length	D							min. P max.	P·Kmax. P·Wmin.		R			
(D m5) N—PJ	D	\$	(4)	40	50	60	70	80			$1.00 \sim 3.99$	3.97	1.00	W (R only)	8	7
			(5)	40	50	60	70	80			$2.00 \sim 4.99$	4.97	2.00			8
			(6)	40	50	60	70	80			2.00 ∼ 5.99	5.97	2.00			9
			8	(40)	50	60	70	80	90	100	3.00 ∼ 7.99	7.97	3.00		13	11
Spring reinforced type			10	(40)	50	60	70	80	90	100	3.00 ∼ 9.99	9.97	3.00			13
(D8~25) N—PJV			13	(40)	50	60	70	80	90	100	$6.00 \sim 12.99$	12.97	6.00			16
(D ^{+0.005}) AN—PJ			16	(40)	(50)	60	70	80	90	100	10.00 ∼ 15.99	15.97	6.00		19	19
Spring reinforced type (D8~25) AN—PJV			20	(40)	(50)	60	70	80	90	100	13.00 ~ 19.99	19.97	6.00			23
			25	(40)	(50)	60	70	80	90	100	18.00 ∼ 24.99	24.97	6.00			28
—Foundation WPC® — (D _{m5})	R		(4)		50	60	70	80			1.00 ~ 3.99	3.97	2.00	1:	13	7
NW-PJ	E		(5)		50	60	70	80			2.00 ∼ 4.99	4.97	2.00			8
Spring reinforced type NW—PJV			(6)		50	60	70	80			2.00 ∼ 5.99	5.97	2.00			9
$(\mathbf{D}^{+0.005})$	G		8		50	60	70	80	90	100	3.00 ∼ 7.99	7.97	3.00		19	11
ANW—PJ			10		50	60	70	80	90	100	3.00 ∼ 9.99	9.97	3.00			13
Spring reinforced type ANW—PJV			13		50	60	70	80	90	100	$6.00 \sim 12.99$	12.97	6.00			16
ANVV-PJV			16			60	70	80	90	100	10.00 ~ 15.99	15.97	6.00			19
			20			60	70	80	90	100	13.00 ~ 19.99	19.97	6.00		25	23
			25			60	70	80	90	100	18.00 ~ 24.99	24.97	6.00			28

P≥W

 \P K= $\sqrt{(P-2R)^2+(W-2R)^2}+2R$

- The spring constants of N-PJV, NW-PJV, AN-PJV, ANW-PJV are twice those of N-PJ, NW-PJ, AN-PJ, ANW-PJ respectively.
- L(40)····B=6 If full length is (40), tip length is 6mm in all cases.
- The length is (50), tip length is 13mm in all cases
- A: $P>D-0.03\cdots\ell=0$ If P>D-0.03 for a round punch, $D_{-0.03}^{-0.01}$ (press-in lead) is not included.
- **?** \square **® © ©**: P•K>D-0.05····ℓ=0 If P•K>D-0.05 for a shaped punch, D $_{-0.03}^{-0.01}$ (press-in lead) is not included.
- © D(4), (5), and (6) are specifications available for N-PJ, NW-PJ, AN-PJ, ANW-PJ only. Spring reinforced types are available for D8~25 only.



Catalog No. -L |-| P |-W R(R only)

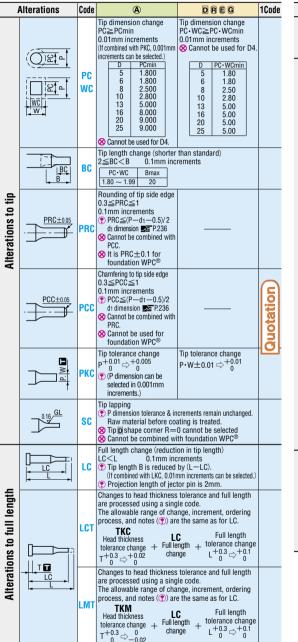
■Effects of DLC coating

Effective for preventing adhesion during aluminum or copper blanking thanks to its low affinity for nonferrou metal.See the product data for details. EFP.1609

NW-PJEL 10 - 70 - P8.50 - W4.25 Days to Ship Quotation







;	F	Alterations	Code	(A)	DREG	1Code			
	Full length		LKC	Full length tolerance $\begin{array}{c} L+0.3 \Leftrightarrow +0.05 \\ 0 \end{array}$ change					
			KC	Addition of single key flat to head	90° Key flat position change 1° increments				
			WKC	Addition of double key flats in parallel					
			KFC	Double key of Flats at 0° and a selected angle 1° increments Cannot be combined with KC-WKC. Double key of Flats at 0° and a selected 270′ 1° increments Cannot be combined with					
	ad		NKC	No key flat					
	is to he	± <u>[₽</u> [нс	Head diameter change D≦HC <h 0.1mm="" be="" cannot="" for="" increments="" products<="" retainer="" set="" td="" used="" ⊗=""></h>					
	Alterations to head	TC TC	TC	Head thickness change 3.5≦TC<5 0.1mm increments in the TKC-TKM-LCT-LMT, 0.01mm increments can be selected.) (F cull length L is shortened by (5—TC). If combined with LC-LCT-LMT, full length remains as specified. Cannot be used for retainer set products					
			TKC	Head thickness tolerance change T+0.3 \rightleftharpoons 0.02 Head thickness tolerance change T+0.3 \rightleftharpoons 0.02					
-			TKM						
		TCC	TCC	Chamfering of head This improves the strength of the punch head. \blacksquare P.1611 0.1mm increments 0.5 \leq TCC \leq (H $-$ D)/2 \bigcirc If H \leq 5, then TCC is 0.5.					
			RC	Head thickness is machined to a tolerance of $-0.04 \sim 0$ relative to the retainer surface. © Cannot be used for $D^{+0.005}_{0}$					
	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.					
	Alterations to shank		NC		e jector pin is removed. Cannot be combined with AC.				
		ℓ D ^{-0.01}	NDC	No press-in $\ell \ge 3 \Leftrightarrow \ell = 0$ lead					

— HC8—KC45





79 80