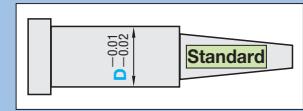


Dies Steel
SKD61 equivalent+Nitrided
 $D = 0.01$
 $D = 0.02$

ONE-STEP CENTER PINS

—SHAFT DIAMETER (D) SELECTION TIP (A · V) TOLERANCE : $\pm 0.01 / \pm 0.02$ TYPE—



Non JIS material definition is listed on P.1351 - 1352



Step (Step type) Select from A~E in the drawings below

Step	Type	Shape	Dimensions
A	CPN-5	(Not processed)	$R \leq 0.5 (D \leq 2 \dots R \leq 0.3)$ $F_0^{+0.05} (F > 500 \dots F_0^{+0.5})$ $L_0^{+0.02} (200 < L \leq 500 \dots L_0^{+0.05}, L > 500 \dots L_0^{+0.5})$ $\ell \geq 0.5 + a$
B	CPJ-5	(C chamfered)	$R \leq 0.5 (D \leq 2 \dots R \leq 0.3)$ $F_0^{+0.02} (200 < F \leq 500 \dots F_0^{+0.05}, F > 500 \dots F_0^{+0.5})$ $L_0^{+0.02} (200 < L \leq 500 \dots L_0^{+0.05}, L > 500 \dots L_0^{+0.5})$ $\ell \geq 0.7 + a$
C	CPNK-5	(Tapered)	$R \leq 0.5 (D \leq 2 \dots R \leq 0.3)$ $K_s = 45^\circ$ $F_0^{+0.02} (200 \leq F \leq 500 \dots F_0^{+0.05}, F > 500 \dots F_0^{+0.5})$ $L_0^{+0.02} (200 \leq L \leq 500 \dots L_0^{+0.05}, L > 500 \dots L_0^{+0.5})$ $\ell \geq D - A + 0.5 + a$ $\text{When AC code is used}$ $\ell \geq D - A + 0.5 + a$
D	CPJK-5	(R chamfered)	$R \leq 0.5 (D \leq 2 \dots R \leq 0.3)$ $K_s = 45^\circ$ $C \pm 0.05$ $F_0^{+0.02} (200 < F \leq 500 \dots F_0^{+0.05}, F > 500 \dots F_0^{+0.5})$ $L_0^{+0.02} (200 < L \leq 500 \dots L_0^{+0.05}, L > 500 \dots L_0^{+0.5})$ $\ell \geq C + 0.5 + a$
E	CPJK-5	(Spherical processed)	$R \leq 0.5 (D = 2 \dots R \leq 0.3)$ $R \pm 0.1$ $F_0^{+0.02} (200 < F \leq 500 \dots F_0^{+0.05}, F > 500 \dots F_0^{+0.5})$ $L_0^{+0.02} (200 < L \leq 500 \dots L_0^{+0.05}, L > 500 \dots L_0^{+0.5})$ $\ell \geq R + 0.5 + a$

Group	Type	Step (Step type A · V · Ks)								
		Step A	Step B	Step C	Step D	Step E	A · V	Ks	A	V
4mm head	JIS head	V	A · V	A · V	Ks	A · V	Ks	A	V	
Standard	CPN-5	CPJ-5	± 0.02	± 0.02	± 0.02	$\pm 1^\circ$	± 0.02	$\pm 1^\circ$	± 0.02	± 0.02
	CPNK-5	CPJK-5	± 0.01	± 0.01	± 0.01	$\pm 1^\circ$	± 0.01	$\pm 1^\circ$	± 0.02	± 0.01

4mm head	JIS head	Part Number				L 0.01mm increments ($L > 500 \dots 0.1\text{mm increments}$)	0.01mm increments			0.1mm increments	ℓ max.
		Type	4mm head	JIS head	Step	Shape	D	F	A	Vmin.	
3	3	CPN-5	4mm head	JIS head	A	C	1.5	70.00 ~ 200.00		0.50	20
4	4	CPJ-5	4mm head	JIS head	B	G	2	70.00 ~ 400.00		0.70	25
5	5	CPNK-5	4mm head	JIS head	C	T	2.5	70.00 ~ 400.00 (500.00)		1.00	30
6	6	CPJK-5	4mm head	JIS head	D	R	3	70.00 ~ 400.00 (700.00)		1.50	35
7	7				E	B	4	70.00 ~ 400.00 (700.00)			40
8	8						5	70.00 ~ 500.00			45
9	9						5.5	70.00 ~ 500.00			50
10	10						6	70.00 ~ 500.00 (700.00)			
11	11						6.5	70.00 ~ 500.00 (800.00)			
12	12						7				
13	13						8				
14	14						9				
15	15						10				
16	16						12				
17	17						15				
—	20						16				
—	21										

Step E is $D \geq 2$ L dimension designation in () is only available for CPJ-5, CPJK-5. Refer to the drawing for ℓ min. (normally, $\alpha = 0$)

Order Part Number — L — F — A — V — C(R) — Tip size (K · S · G · Q)
CPJ-5ER 6 — 350.00 — F330.00 — A5.00 — V4.00 — R0.5 — Q1.5

Quotation

Days to Ship Alterations Part Number — L — F — A — V — C(R) — Tip size (K · S · G · Q) — (KC · WK · KC · etc.)
CPJ-5ER 6 — 350.00 — F330.00 — A5.00 — V4.00 — R0.5 — Q1.5 — KC3.0

Alteration details P.351

Alterations	Code	Spec.	1Code	Alterations	Code	Spec.	1Code
	KC	Single flat cutting $D/2 \leq KC < H/2$			TC	TC=0.1mm increments $T/2 \leq TC < T$ $T - TC \leq L_{max} - L$ (Dimensions L and F remain unchanged.)	
	WKC	Two flats cutting $D/2 \leq WKC < H/2$			NC	Dowel hole boring Combination with other than NHC · NHN · AC · RR not available.	
	KAC	Varied width parallel flats cutting $D/2 \leq KAC < H/2$			NHC	Numbering on the head How to order P.352 Available when $H \geq 2$	
	RKC	Two flats (right angled) cutting $D/2 \leq RKC < H/2$			NHN	Automatic sequential numbering on the head How to order P.352 Available when $H \geq 2$	
	DKC	Three flats cutting $D/2 \leq DKC < H/2$			AC	Changes the standard angle ($Ks = 45^\circ$). $AC = 1^\circ$ increments Available for Step C · D · RR not available. When Step D, $C \leq 1.0, A + 2(C \times \tan AC) < D$	
	KGC	Two flats (angled) cutting $D/2 \leq KGC < H/2$ $AG = 1^\circ$ increments $0 < AG < 360$			RR	Changes R (normally 0.2 or less) to $R0.3 \sim 0.5$. (for strength improvement) Designation method RR Available for Step B · C · D $D - A \geq 1.0$ When Step D, $C \geq 0.5$	
	KTC	Three flats cutting at 120° $D/2 \leq KTC < H/2$			HC	$HC = 0.1\text{mm increments}$ $D \leq HC < H$ In relation to the diameter tolerance, alteration may create a straight piece with little diameter difference between the head and shaft.	
	HCC	$HCC = 0.1\text{mm increments}$ $D + 1 \leq HCC < H - 0.3$					

P Price

Quotation

Quotation

Center Pins
Dies Steel
SKD61 equivalent
Nitrided