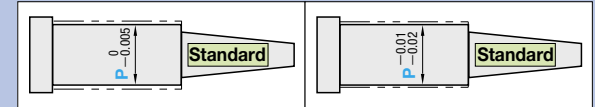


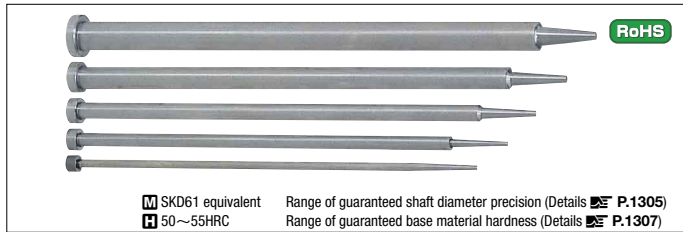
Dies Steel
SKD61 equivalent
P $\begin{matrix} 0 \\ -0.005 \end{matrix} / \begin{matrix} -0.01 \\ -0.02 \end{matrix}$

ONE-STEP CENTER PINS

—SHAFT DIAMETER (P) DESIGNATION (0.01mm INCREMENTS) TIP (A · V) TOLERANCE : $\pm 0.01 / \pm 0.02$ TYPE—



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



Type	P	Head Thickness (T)	Applicable ejector sleeve hole tolerance
CPPG-5	$\begin{matrix} 0 \\ -0.005 \end{matrix}$	4mm (T4)	$\begin{matrix} +0.005 \\ 0 \end{matrix}$ Details P.1309
CPDG-5	$\begin{matrix} -0.01 \\ -0.02 \end{matrix}$		$\begin{matrix} +0.01 \\ 0 \end{matrix}$ or H7 Details P.1309
CPDKG-5	$\begin{matrix} -0.01 \\ -0.02 \end{matrix}$		

SKD61 equivalent Range of guaranteed shaft diameter precision (Details P.1305)
50~55HRC Range of guaranteed base material hardness (Details P.1307)

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

Step A

Step B

Step C

Step D

Step E

Shape (Tip shape : V is dimension before tip processing.)

(Not processed) Designation of the shape is unnecessary when tip processing is not required.

C (C chamfered) $0.5 \leq G < V/2$
0.1mm increments
 $\alpha = G \theta < 45^\circ$
(Calculation of θ P.1315)

G (Cone) $20 < K \leq 60$
1° increments
 $\alpha = \frac{V}{2 \tan K} \theta < K$
(Calculation of θ P.1315)

T (Tapered) $0.1 \leq S < \frac{V}{2 \tan K}$
0.1mm increments
 $20 < K \leq 45$
1° increments
 $\alpha = S \theta < K$
(Calculation of θ P.1315)

R (R chamfered) $0.2 \leq Q < V/2$
0.1mm increments
 $\alpha = Q$

B (Spherical processed) $\alpha = V/2$

H	Part Number				0.01mm increments				0.1mm increments	ℓ max.	
	Type	Step	Shape	No.	L	P	F	A	Vmin.		C · R
3	CPPG-5 CPDG-5 CPDKG-5	A B C D E	C G T R B	1.5	70.00~200.00	1.00~1.49	F ≥ 50.00	P > A ≥ V No need to designate A when [Step] A is selected.	0.50	0.1 ≤ C ≤ 1.5 and C < P-A/2 [Step] E only R ≥ 0.3 and R ≤ P-A/2	20
4				2	70.00~250.00	1.50~1.99			0.70		25
5				2.5	2.00~2.49	1.00			30		
6				3	2.50~2.99	1.00			35		
7				3.5	3.00~3.49	1.00			40		
7				4	3.50~3.99	1.00			45		
8				4.5	4.00~4.49	1.00			45		
9				5	4.50~4.99	1.00			45		
9				5.5	5.00~5.49	1.00			45		
10				6	5.00~5.99	1.00			45		
10				6.5	5.00~6.49	1.00			45		
11				7	6.00~6.99	2.00			50		
15	8	6.00~7.99	2.00	50							
15	10	8.00~9.99	2.00	50							
17	12	10.00~11.99	2.00	50							

Ⓜ Refer to the drawing for ℓ min. (normally, α = 0) Ⓜ When P = $\begin{matrix} 0 \\ -0.01 \end{matrix}$, [Step] E is No.1.5 (P ≥ 1.10)~

Order Part Number — L — P — F — A — V — C(R) — Tip size (K · S · G · Q)
CPPG-5ER6 — 350.00 — P5.95 — F330.00 — A4.95 — V4.50 — R0.5 — Q1.5

Days to Ship **Quotation**

Alterations Part Number — L — P — F — A — V — C(R) — Tip size (K · S · G · Q) — (KC · WKC...etc.)
CPPG-5ER6 — 350.00 — P5.95 — F330.00 — A4.95 — V4.50 — R0.5 — Q1.5 — KC3.0

Alteration details P.351

Alterations	Code	Spec.	1Code	Alterations	Code	Spec.	1Code
	KC	Single flat cutting P/2 ≤ KC < H/2			TC	TC=0.1mm increments 2.0 ≤ TC < 4 4 - TC ≤ Lmax. - L, P ≥ 1.5 (Dimensions L and F remain unchanged.)	
	WKC	Two flats cutting P/2 ≤ WKC < H/2			NC	Dowel hole boring Available when H ≥ 4 Combination with other than NHC · NHN · AC · RR not available.	
	KAC KBC	Varied width parallel flats cutting P/2 ≤ KAC < H/2 KBC=0.1mm increments only KAC < KBC < H/2	(1)To align the key flat with the shaft diameter [Unit of designation] 0.005mm increments possible		NCW	Dowel hole boring + Spring pin driving Available when H ≥ 4 Combination with other than NHC · NHN · AC · RR not available.	
	RKC	Two flats (right angled) cutting P/2 ≤ RKC < H/2			NHC	Numbering on the head How to order P.352 Available when H ≥ 2	
	DKC	Three flats cutting P/2 ≤ DKC < H/2	(2)To designate arbitrary key flat dimensions		NHN	Automatic sequential numbering on the head How to order P.352 Available when H ≥ 2	
	KGC	Two flats (angled) cutting P/2 ≤ KGC < H/2 AG=1° increments 0 < AG < 360	[Unit of designation] 0.1mm		AC	Changes the standard angle (Ks=45°). AC=1° increments 30 ≤ AC ≤ 60 Available for [Step] C · D Combination with RR not available. When [Step] D, C ≤ 1.0, A + 2(C × tan AC) < D	
	KTC	Three flats cutting at 120° P/2 ≤ KTC < H/2			RR	Changes R (normally 0.2 or less) to R0.3~0.5. (for strength improvement) [Designation method] RR Available for [Step] B · C · D P - A ≥ 1.0 When [Step] D, C ≥ 0.5	
	HC	HC=0.1mm increments P ≤ HC < H Ⓜ When P = $\begin{matrix} 0 \\ -0.01 \end{matrix}$ P ≥ 1.5 In relation to the diameter tolerance, alteration may create a straight piece with little diameter difference between the head and shaft.					
	HCC	HCC=0.1mm increments P + 1 ≤ HCC < H - 0.3, P ≥ 1.5					

P Price **Quotation**