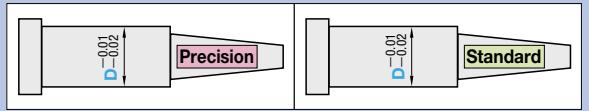


High Speed Steel
SKH51 equivalent
 $D_{-0.02}^{+0.01}$

ONE-STEP CENTER PINS

—SHAFT DIAMETER (D) SELECTION TIP (A · V) TOLERANCE $\pm 0.005 / \pm 0.01 / \pm 0.02$ TYPE—



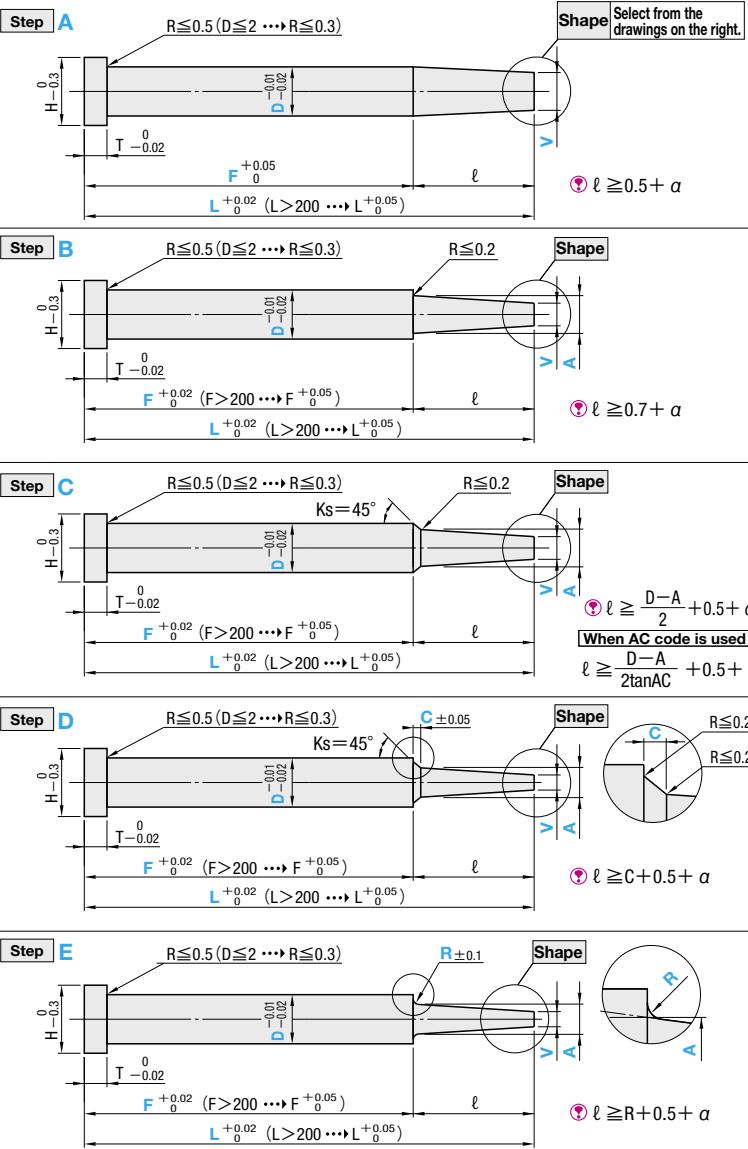
Refer to shaft diameter designation type **P.359** when shaft diameter is designated.



Type	$\frac{D}{T}$	Head Thickness (T)	Applicable ejector sleeve hole tolerance
CPXE-5		4mm (T4)	$+0.01$ or H7
CPHE-5		-0.01	
CPVE-5		-0.02	
CPXJE-5		4 · 6 · 8mm(JIS)	Details P.1309
CPHJE-5			
CPVJE-5			

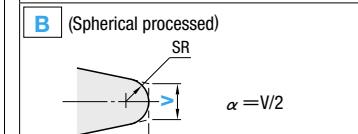
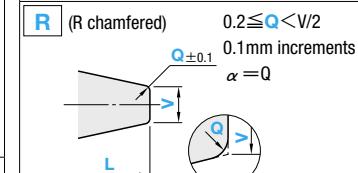
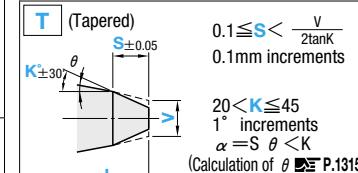
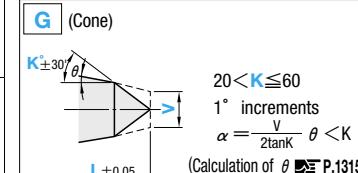
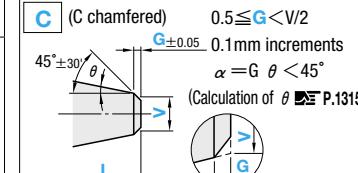
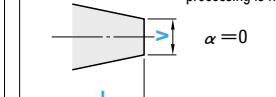
SKH51 equivalent Range of guaranteed shaft diameter precision (Details **P.1305**)
58~60HRC Range of guaranteed base material hardness (Details **P.1307**)

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



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

(Not processed) Refer to the drawing for ℓ min. (normally, $\alpha = 0$)



4mm head		JIS head		Part Number				0.01mm increments				0.1mm increments		ℓ max.
H	T	H	T	Type	JIS head	Step	Shape	D	L	F	A	Vmin.	C · R	
3		3		CPXE-5		A	C	1	70.00~200.00			0.50		15
4		4		CPHE-5		B	G	1.5	70.00~250.00			0.70		20
5		5		CPVE-5		C	T	2.5	70.00~300.00			1.00	$0.1 \leq C \leq 1.5$	25
6		6		CPXJE-5		D	R	3				1.50	$0.1 \leq C \leq 1.5$ and $C < \frac{D-A}{2}$	30
7		7		CPHJE-5		E	B	4				2.00	$R \geq 0.3$ and $R \leq \frac{D-A}{2}$	35
8	4	8		CPVJE-5				4.5	70.00~350.00					40
9		9						5						45
10		10						5.5						50
11		11						6						
12		13						6.5						
13		14						7						
14		15						8						
15		16						9						
16		17						10						

Step E is $D \geq 1.5$ 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)
CPHE-5EG 6 — 350.00 — F330.00 — A5.00 — V4.50 — R0.5 — K45

Quotation

Days to Ship Alterations Part Number — L — F — A — V — C(R) — Tip size (K · S · G · Q) — (KC · WKC · etc.)
CPHE-5EG 6 — 350.00 — F330.00 — A5.00 — V4.50 — R0.5 — K45 — KC3.0

Alteration details **P.351**

Alterations	Code	Spec.	1Code	Alterations	Code	Spec.	1Code
	VKC	Single flat cutting (precision) $D/2 \leq VKC < H/2$			HC	HC=0.1mm increments $D \leq HC < H, D \geq 1.5$	
	VWC	Two flats cutting (precision) $D/2 \leq VWC < H/2$			HCC	HCC=0.1mm increments $D+1 \leq HCC < H-0.3, D \geq 1.5$	
	KC	Single flat cutting $D/2 \leq KC < H/2$			TC	TC=0.1mm increments $T/2 \leq TC < T, D \geq 1.5$	
	WKC	Two flats cutting $D/2 \leq WKC < H/2$			NC	Dowel hole boring Available when $H \geq 4$ Combination with other than NHC · NHN · AC · RR not available.	
	KAC	Varied width parallel flats cutting $D/2 \leq KAC < H/2$ $KBC=0.1mm increments only$			NCW	Dowel hole boring + Spring pin driving Available when $H \geq 4$ Combination with other than NHC · NHN · AC · RR not available.	
	RKC	Two flats (right angled) cutting $D/2 \leq RKC < H/2$			NHC	Numbering on the head How to order P.352 Available when $H \geq 2$	
	DKC	Three flats cutting $D/2 \leq DKC < H/2$			NHN	Automatic sequential numbering on the head How to order P.352 Available when $H \geq 2$	
	KGC	Two flats (angled) cutting $D/2 \leq KGC < H/2$ $AG=1^\circ$ increments $0 < AG < 360$			AC	Changes the standard angle ($Ks=45^\circ$). $AC=1^\circ$ increments Available for Step C · D Combination with RR not available. When Step D, $C \leq 1.0, A+2(C \times tanAC^\circ) < D$	
	KTC	Three flats cutting at 120° $D/2 \leq KTC < H/2$			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 Available for Step D, $C \geq 0.5$	



Quotation

Center pins
Step

High Speed Steel
SKH51 equivalent