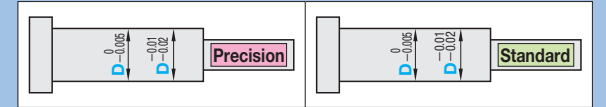


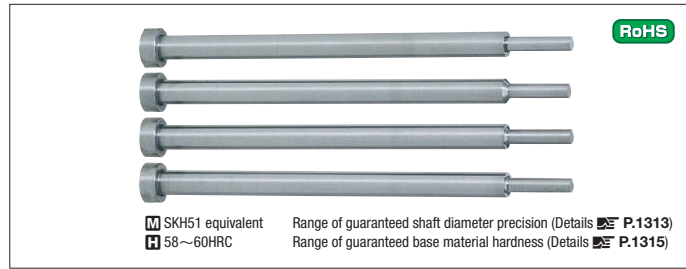
High Speed Steel
SKH51 equivalent
D $\begin{matrix} 0 \\ -0.005 \end{matrix} / \begin{matrix} -0.01 \\ -0.02 \end{matrix}$

TAPERLESS ONE-STEP CENTER PINS

—SHAFT DIAMETER (D) FIXED TIP (A) TOLERANCE $\begin{matrix} 0 \\ -0.005 \end{matrix} / \begin{matrix} -0.01 \\ -0.02 \end{matrix}$ TYPE—



Ⓜ Non JIS material definition is listed on P.1359 - 1360

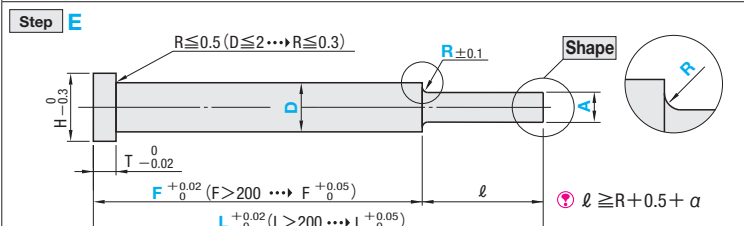
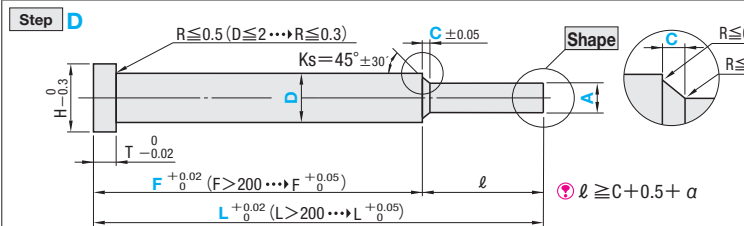
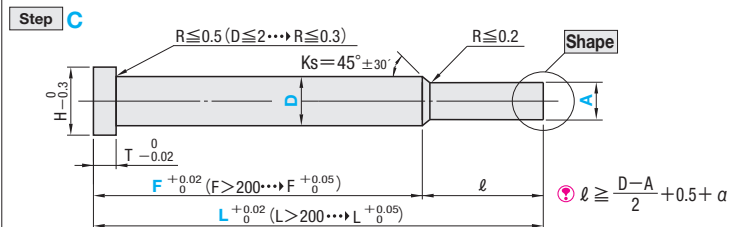
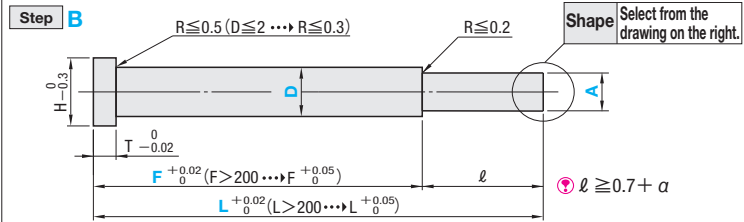


RoHS

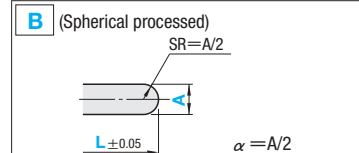
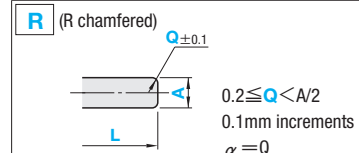
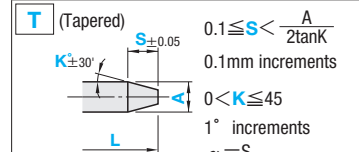
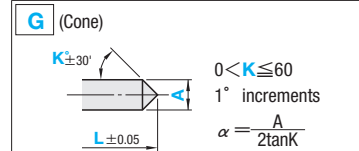
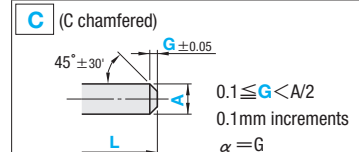
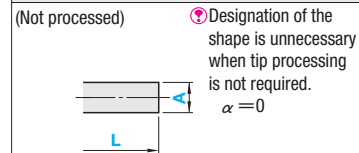
SKH51 equivalent Range of guaranteed shaft diameter precision (Details P.1313)
58~60HRC Range of guaranteed base material hardness (Details P.1315)

Type	D	Head thickness (T)	Applicable ejector sleeve hole tolerance
CPHS-5 CPVS-5	$\begin{matrix} 0 \\ -0.005 \end{matrix}$	4mm (T4)	$\begin{matrix} +0.005 \\ 0 \end{matrix}$ Details P.1317
CPHSJ-5 CPVSJ-5		6 · 8mm (JIS)	
CPHSE-5 CPVSE-5	$\begin{matrix} -0.01 \\ -0.02 \end{matrix}$	4mm (T4)	$\begin{matrix} +0.01 \text{ or } H7 \\ 0 \end{matrix}$ Details P.1317
CPHSJE-5 CPVSJE-5		6 · 8mm (JIS)	

Step (Step type) Select from B~E in the drawing below.



Shape (Tip shape)



4mm head		JIS head		Part Number				0.01mm increments				0.1mm increments		ℓmax.
H	T	H	T	Type	Step	Shape	D	L	F	A	Amin.	C · R	ℓ ≤ 12XA and ℓ ≤ 35	
3				CPHS-5 CPVS-5			1	70.00~200.00	F ≥ 50.00	When tolerance D $\begin{matrix} 0 \\ -0.005 \end{matrix}$	0.50	Step D only		
4							1.5	70.00~250.00					0.70	
5				CPHSJ-5 CPVSJ-5		B	2	70.00~300.00		When tolerance D $\begin{matrix} 0 \\ -0.005 \end{matrix}$	1.00	and C < D-A/2		
6							2.5						70.00~350.00	1.50
7		8		CPHSE-5 CPVSE-5		C	3			When tolerance D $\begin{matrix} -0.01 \\ -0.02 \end{matrix}$	2.00	and R ≥ 0.3		
8	4	9					3.5							2.00
9		10	6	CPHSJE-5 CPVSJE-5		D	4			When tolerance D $\begin{matrix} -0.01 \\ -0.02 \end{matrix}$		and R ≤ D-A/2		
10		11					4.5							
11		13		CPHSJE-5 CPVSJE-5		E	5			When tolerance D $\begin{matrix} -0.01 \\ -0.02 \end{matrix}$				
14		14	8				6							
15		15		CPHSJE-5 CPVSJE-5			6.5			When tolerance D $\begin{matrix} -0.01 \\ -0.02 \end{matrix}$				
17		17					7							
				8			Step R only							
				9						Step B only				
				10			Step R only							
				12						Step B only				

Ⓜ Step E is D ≥ 1.5 Ⓜ Refer to the drawing for ℓmin. (normally, α=0)

Order Part Number — L — F — A — C(R) — Tip size (K · S · G · Q)
CPHS-5EG6 — 350.00 — F330.00 — A5.00 — R0.5 — K30

Days to Ship 3 Days Express A P.46
Ⓜ Delivery days depend on subsidiary. P.45

Alterations Part Number — L — F — A — C(R) — Tip size (K · S · G · Q) — (KC · WKC...etc.)
CPHS-5EG6 — 350.00 — F330.00 — A5.00 — R0.5 — K30 — KC3.0

Alteration details P.383

Alterations	Code	Spec.	1Code	Alterations	Code	Spec.	1Code
	VKC	Precision single flat cutting D/2 ≤ VKC < H/2			HC	HC=0.1mm increments D ≤ HC < H, D ≥ 1.5 Ⓜ In relation to the diameter tolerance, alteration may create a straight piece with little diameter difference between the head and shaft.	
	VWC	Precision two flats cutting D/2 ≤ VWC < H/2			HCC	HCC=0.1mm increments D+1 ≤ HCC < H-0.3, D ≥ 1.5	
	KC	Single flat cutting D/2 ≤ KC < H/2			TC	TC=0.1mm increments T/2 ≤ TC < T, D ≥ 1.5 Ⓜ TC ≤ Lmax. L (Dimensions L and F remain unchanged.)	
	WKC	Two flats cutting D/2 ≤ WKC < H/2			NC	Dowel hole boring Ⓜ Available when H ≥ 4 Ⓜ Combination with other than NHC · NHN · RR not available.	
	KAC	Varied width parallel flats cutting D/2 ≤ KAC < H/2			NCW	Dowel hole boring+Spring pin driving Ⓜ Available when H ≥ 4 Ⓜ Combination with other than NHC · NHN · RR not available.	
	RKC	Two flats (right angled) cutting D/2 ≤ RKC < H/2			NHC	Numbering on the head How to order P.384 Ⓜ Available when H ≥ 2 Ⓜ Express services not available	
	DKC	Three flats cutting D/2 ≤ DKC < H/2			NHN	Automatic sequential numbering on the head How to order P.384 Ⓜ Available when H ≥ 2 Ⓜ Express services not available	
	KGC	Two flats (angled) cutting D/2 ≤ KGC < H/2 AG=1° increments 0 < AG < 360			RR	Changes R (normally 0.2 or less) to R0.3~0.5 (Improves strength) [Designation method] RR Ⓜ Available for [Step] B · C · D Ⓜ D-A ≥ 1.0 [Step] When D, C ≥ 0.5	
	KTC	Three flats cutting at 120° D/2 ≤ KTC < H/2					

Price Quantity discount rate P.47
Quantity Rate 1~4 5~12 13~19 20~50
— — 5% 10% 15% Ⓜ To be quoted on price & lead time above Max. Q'ty.

Group	Type		Shape (Tip shape) A			
	4mm head	JIS head	Step B	Step C	Step D	Step E
Standard	CPHS-5	CPHSJ-5	A $\begin{matrix} 0 \\ -0.01 \end{matrix}$	A $\begin{matrix} 0 \\ -0.01 \end{matrix}$	A $\begin{matrix} 0 \\ -0.01 \end{matrix}$	A $\begin{matrix} 0 \\ -0.01 \end{matrix}$
Precision	CPVS-5	CPVSJ-5	A $\begin{matrix} 0 \\ -0.005 \end{matrix}$	A $\begin{matrix} 0 \\ -0.005 \end{matrix}$	A $\begin{matrix} 0 \\ -0.005 \end{matrix}$	A $\begin{matrix} 0 \\ -0.005 \end{matrix}$
Standard	CPHSE-5	CPHSJE-5	A $\begin{matrix} 0 \\ -0.01 \end{matrix}$	A $\begin{matrix} 0 \\ -0.01 \end{matrix}$	A $\begin{matrix} 0 \\ -0.01 \end{matrix}$	A $\begin{matrix} 0 \\ -0.01 \end{matrix}$
Precision	CPVSE-5	CPVSJE-5	A $\begin{matrix} 0 \\ -0.005 \end{matrix}$	A $\begin{matrix} 0 \\ -0.005 \end{matrix}$	A $\begin{matrix} 0 \\ -0.005 \end{matrix}$	A $\begin{matrix} 0 \\ -0.005 \end{matrix}$