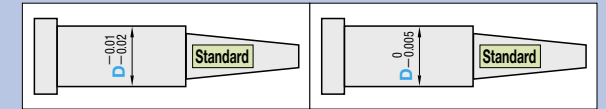


ONE-STEP CORE PINS

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



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

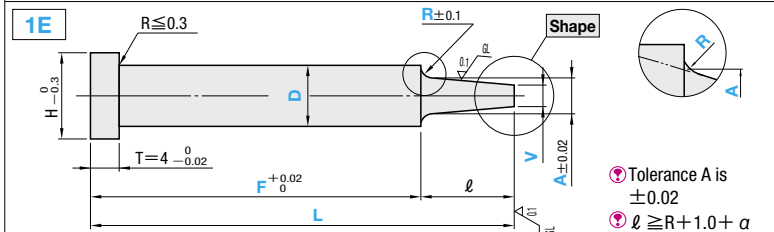
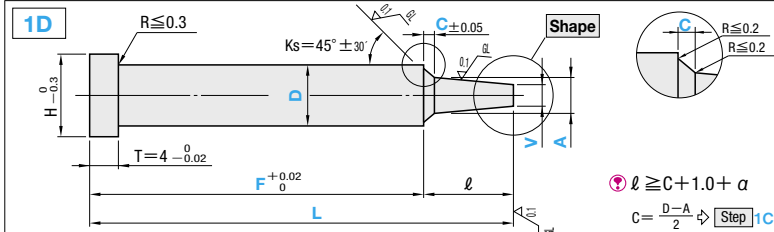
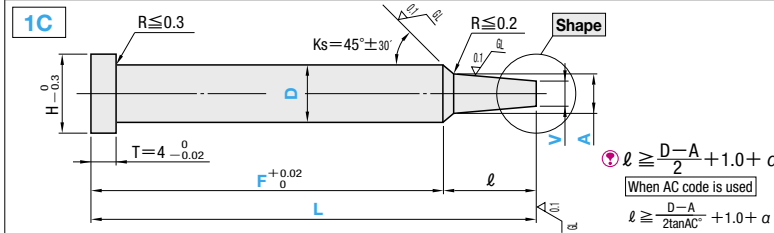
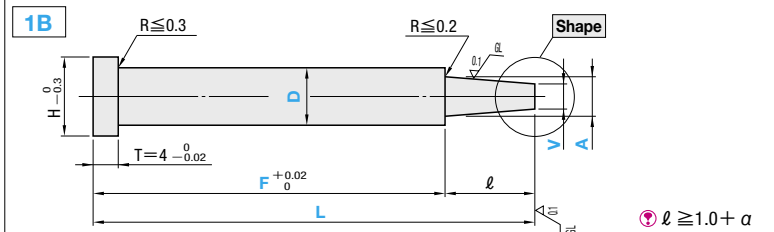
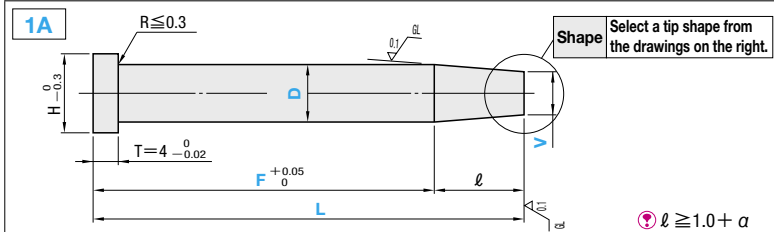
M	H	Part Number		
		Type	Step	Shape
SKD61 equivalent 48~52HRC Shaft diameter tolerance $D \begin{matrix} 0.01 \\ 0.02 \end{matrix}$ V · A tolerance ± 0.015	L-CPD	1A	Not processed	
		1B	C	
		1C	G T R	
SKH51 equivalent 58~60HRC Shaft diameter tolerance $D \begin{matrix} 0 \\ 0.005 \end{matrix}$ V · A tolerance ± 0.01	L-CPH	1D	R B	
		1E	B	

Ⓜ The tip of this product is lapped around the entire periphery.

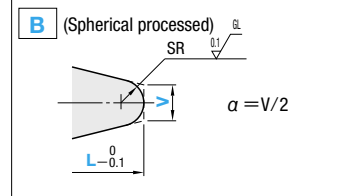
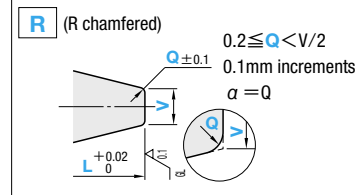
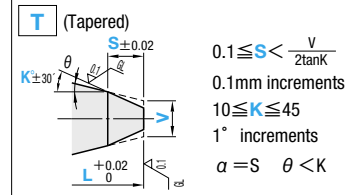
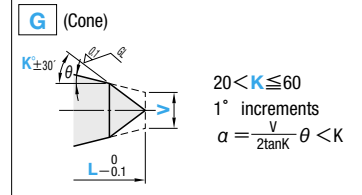
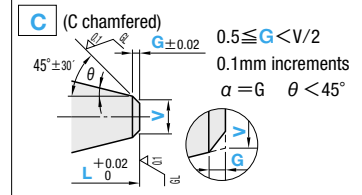
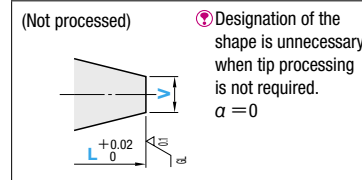
Enlarged photograph of tip

Ⓜ When [Step] 1E, A tolerance is ± 0.02 .

Step type selected from 1A ~ 1E below



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



Ⓜ Refer to the Shape drawing for L tolerance Ⓜ The l dimension face and the tip face are lapped.

(Calculation of tip gradient θ Ⓜ P.1315)

Order

Part Number	L	F	A	V	C · R	Tip size (K · S · G · Q)
L-CPH-1A 5	58.00	F40.00		V4.50		
L-CPD-1A 5	58.00	F40.00		V4.50		

H	Part Number				0.01mm increments				0.1mm increments		lmax.		
	Type	Step	Shape	D	L		F		A	Vmin.		C	R
3	Shaft diameter tolerance $\begin{matrix} 0.01 \\ 0.02 \end{matrix}$	1A	Designation is unnecessary when tip processing is not required.	1.5	12.00	100.00	10.00	L- l min.	D > A \geq V [Step] 1A D > V	1.00	Only [Step] 1D designated $C < \frac{D-A}{2}$ and $0.1 \leq C \leq 4.0$ Ⓜ When CVC code is used $0.50 \leq CVC \leq 1.00$	Only [Step] 1E designated $R \leq \frac{D-A}{2}$ and $R \geq 0.2$	A × 6 and $l \leq 30$
4				2									
5				2.5									
6				3									
7	Shaft diameter tolerance $\begin{matrix} 0 \\ 0.005 \end{matrix}$	1C	C	3.5	12.00	10.00	L- l min. Ⓜ Refer to the [Step] drawing	No designation necessary for A	1.50 2.00	Only [Step] 1E designated $R \geq 0.2$	A × 6 and $l \leq 30$		
8				4									
9				5									

Price **Quotation**

Quotation

Alterations

Part Number	L	F	A	V(CV)	C(CVC)	R(RE)	Tip size (K · S · G · Q)	(KC · WKC...etc.)
L-CPH-1EC6	50.00	F40.00	A5.00	V3.10		RE1.5	G1.0	HC8.0
L-CPD-1EC6	50.00	F40.00	A5.00	V3.10		RE1.5	G1.0	HC8.0

Alteration details Ⓜ P.441

Alterations	Code	Spec.	1Code	Alterations	Code	Spec.	1Code
	KC	Single flat cutting $D/2 \leq KC < H/2$			TC	Head thickness change $TC = 0.1$ mm increments $1.5 \leq TC < 4$ (Dimensions L and F remain unchanged.) $4 - TC \leq L_{max} - L$	
	WKC	Two flats cutting $D/2 \leq WKC < H/2$			TRN	Relief under the head (No need for plate chamfering)	
	KAC	Varied width parallel flats cutting $D/2 \leq KAC < H/2$ KBC=0.1mm increments only $KAC < KBC < H/2$			NHC	Numbering on the head How to order Ⓜ P.442 Ⓜ Combination with SKC not available.	
	RKC	Two flats (right angled) cutting $D/2 \leq RKC < H/2$			RR	Changes R (normally 0.2 or less) to R0.3~0.5. (Strength has been improved) [Designation method] RR Ⓜ Available for [Step] 1B/1C/1D Ⓜ $D - A \geq 1.0$ When [Step] 1D, $C \geq 0.5$	
	DKC	Three flats cutting $D/2 \leq DKC < H/2$			AC	Changes the standard angle ($K_s = 45^\circ$) $AC = 1^\circ$ increments Ⓜ Available for [Step] 1C/1D Ⓜ $30 \leq AC \leq 60$ Ⓜ Combination with CVC · RR not available Ⓜ When [Step] 1D, $C \leq 1.0, A + 2(C \times \tan AC) < D$	
	SKC	Four flats cutting $D/2 \leq SKC < H/2$			CVC	C dimension can be designated at 0.01mm increments. Ⓜ $0.50 \leq CVC \leq 1.00$ Ⓜ Available for [Step] 1D Ⓜ $CVC < (D - A)/2$ Ⓜ Combination with AC not available.	
	KGC	Two flats (angled) cutting $D/2 \leq KGC < H/2$ $0 < AG < 360$ $AG = 1^\circ$ increments			VC	Vmin. is enlarged. $VC = 0.01$ mm increments Ⓜ $l \leq A \times 5, l \leq 25$ (D × 5) for [Step] 1A Ⓜ $D > A \geq VC$	
	KTC	Three flats cutting at 120° $D/2 \leq KTC < H/2$			RE	R shape alteration (enlargement) $RE = 0.5$ mm increments Ⓜ $0.5 \leq RE \leq 2.0$ Ⓜ F tolerance is $\begin{matrix} 0 \\ -0.05 \end{matrix}$ Ⓜ Available for [Step] 1E	
	HC	Head diameter change $HC = 0.1$ 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.			GVC	Gas vent machining $GS \cdot GB = 1$ mm increments Ⓜ Available when $D \geq 2$ Ⓜ $2 \leq GS \leq 10 \quad GS \geq 2 \leq GB \leq 30$ Ⓜ $F_{min} \leq F - GB$ How to order Ⓜ P.442	
	HCC	Head diameter change (precision) $HCC = 0.1$ mm increments $D + 0.5 \leq HCC < H - 0.3$					