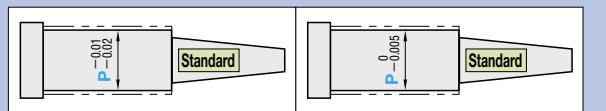
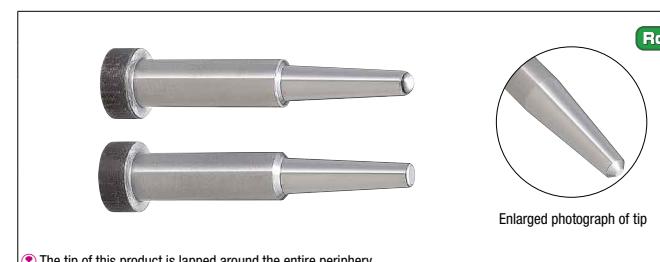


## **ONE- STEP CORE PINS**

—TIP LAPPED • SHAFT DIAMETER (P) DESIGNATION • SHAFT DIAMETER TOLERANCE  $\begin{array}{l} -0.01 \\ -0.02 \end{array}$  /  $\begin{array}{l} 0 \\ -0.005 \end{array}$  TYPE—



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

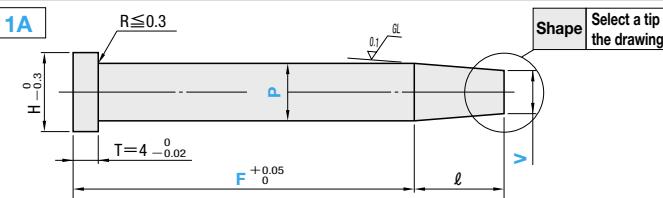


M H	Part Number		
	Type	Step	Shape
Shaft diameter · V·A			
SKD61 equivalent 48~52HRC Shaft diameter tolerance P <sub>-0.01</sub> V · A tolerance ±0.015	L-CPDB-	1A 1B 1C 1D 1E	Not processed C G T R B
SKH51 equivalent 58~60HRC Shaft diameter tolerance P <sub>-0.005</sub> V · A tolerance ±0.01	L-CPHB-		

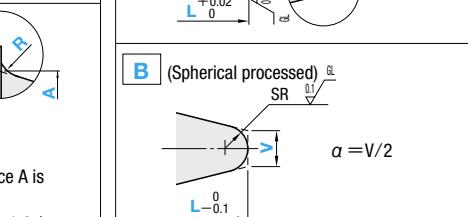
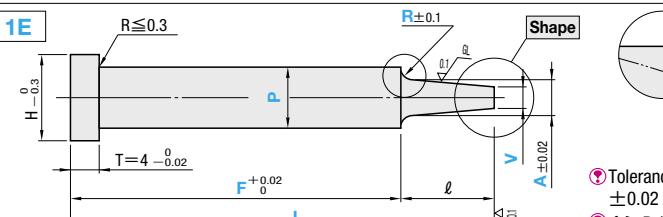
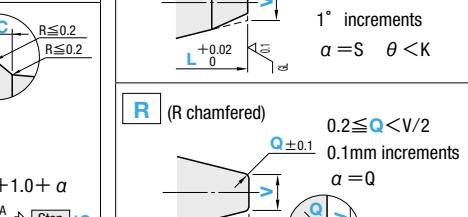
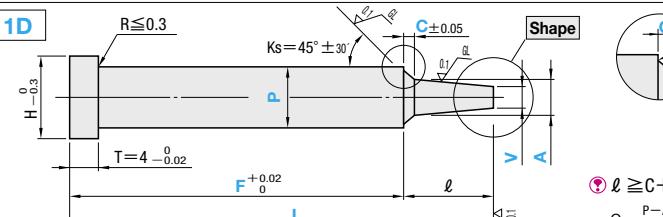
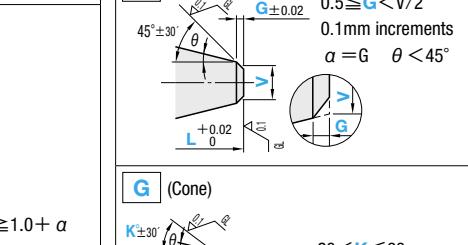
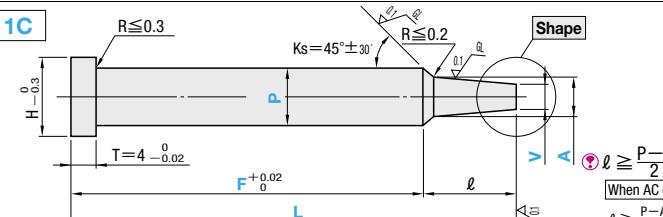
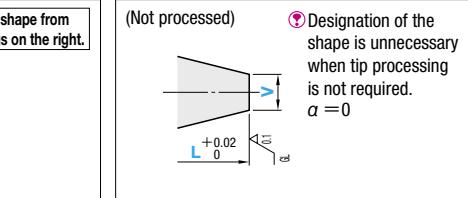
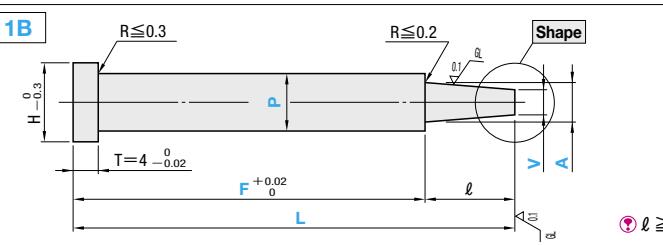
• The tip of this product is lapped around the entire periphery.

When Step 1E, A tolerance is  $\pm 0.0$

**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  $\ell$  dimension face and the tip face are lapped

Refer to the **Shape** drawing for L tolerance The  $\epsilon$  dimension face and the tip face are lapped.

(Calculation of tip gradient  $\theta$   P.1315

 Order Part Number — L — P — F — A — V — C · R — Tip size (K · S · G · Q)  
L-CPDB-1A 5 — 58.00 — P4.86 — F40.00 — V4.50  
L-CPHR-1A 5 — 58.00 — P4.86 — F40.00 — V4.50

H	Part Number				0.01mm increments						0.1mm increments		lmax.	
					L		min.Pmax		F		A	Vmin.	C	R
	Type	Step	Shape	No.	min.	max.	min.	max.						
3	Shaft diameter			1.5			1.30~1.49							
4	tolerance $\pm 0.01$			2			1.50~1.99							
5	<b>L-CPDB-</b>	1A	Designation is unnecessary when tip processing is not required.	2.5			2.00~2.49							
6				3			2.50~2.99							
7		1B	C	3.5			3.00~3.49							
				4			3.50~3.99							
8	Shaft diameter	1C	G	4.5			4.00~4.49							
	tolerance $\pm 0.005$			5			4.50~4.99							
9	<b>L-CPHB-</b>	1D	T	5.5			5.00~5.49							
				6			5.50~5.99							



## Quotation



## Quotation

	Alterations		Part Number	-	L	-	P	-	F	-	A	-	V(VC)	-	C(CVC)	-	R(RE)	-	Tip size (K·S·G·Q)	-	(KC · WKC · etc.)
			L-CPDB-1EC6	-	50.00	-	P5.70	-	F40.00	-	A5.00	-	V3.10	-		-	RE1.5	-	G1.0	-	HC8.0
			L-CPHB-1EC6	-	50.00	-	P5.70	-	F40.00	-	A5.00	-	V3.10	-		-	RE1.5	-	G1.0	-	HC8.0

Alterations	Code	Spec.	1Code	Alterations	Code	Spec.	1Code
	KC	Single flat cutting $P/2 \leq KC < H/2$			TC	Head thickness change $TC=0.1\text{mm}$ increments $1.5 \leq TC < 4$ (Dimensions L and F remain unchanged.) $4 - TC \leq L_{max} - L$	
	WKC	Two flats cutting $P/2 \leq WKC < H/2$			TRN	Relief under the head (No need for plate chamfering)	
	KAC	Varied width parallel flats cutting $P/2 \leq KAC < H/2$ KBC=0.1mm increments only			A15	Numbering on the head How to order <a href="#">P.442</a>	
	KBC	KAC Varied width parallel flats cutting $P/2 \leq KBC < H/2$			RR	Combination with SKC not available.	
	RKC	Two flats (right angled) cutting $P/2 \leq RKC < H/2$			AC	Changes R (normally 0.2 or less) to R0.3~0.5. (Strength has been improved) Designation method RR	
	DKC	Three flats cutting $P/2 \leq DKC < H/2$			CVC	Available for [Step] 1B/1C/1D	
	SKC	Four flats cutting $P/2 \leq SKC < H/2$			CVC	Changes the standard angle ( $Ks=45^\circ$ ) $AC=1^\circ$ increments Available for [Step] 1C/1D $30^\circ \leq AC \leq 60^\circ$ Combination with CVL・RR not available	
	KGC	Two flats (angled) cutting $P/2 \leq KGC < H/2$ $0^\circ < AG < 360^\circ$ $AG=1^\circ$ increments			CVC	When [Step] 1D, $C \leq 1.0A + 2(C \times \tan AC^\circ) < P$	
	KGC	Two flats (angled) cutting $P/2 \leq KGC < H/2$ $0^\circ < AG < 360^\circ$ $AG=1^\circ$ increments			VC	Dimension can be designated at 0.01mm increments. $0.50 \leq CVC \leq 1.00$ Available for [Step] 1D	
	KTC	Three flats cutting at $120^\circ$ $P/2 \leq KTC < H/2$			VC	$0.50 \leq CVC < 1.00$ Available for [Step] 1D	
	HC	Head diameter change $HC=0.1\text{mm}$ increments $P \leq HC < H$			RE	$0.5 \leq RE \leq 2.0$ F tolerance is $+0.05$ Available for [Step] 1E	
	HCC	Head diameter change (precision) $HCC=0.1\text{mm}$ increments $P+0.5 \leq HCC < H-0.3$			GVC	$0.5 \leq RE \leq 2.0$ F tolerance is $+0.05$ Available for [Step] 1E	
	HCC	Head diameter change (precision) $HCC=0.1\text{mm}$ increments $P+0.5 \leq HCC < H-0.3$			GVC	Gas vent machining $GS \cdot GB=1\text{mm}$ increments $1.5 \leq GS \leq 10$ $GS+2 \leq GB \leq 30$ $F_{min} < F - GB$ How to order <a href="#">P.442</a>	