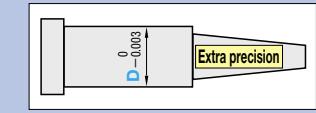


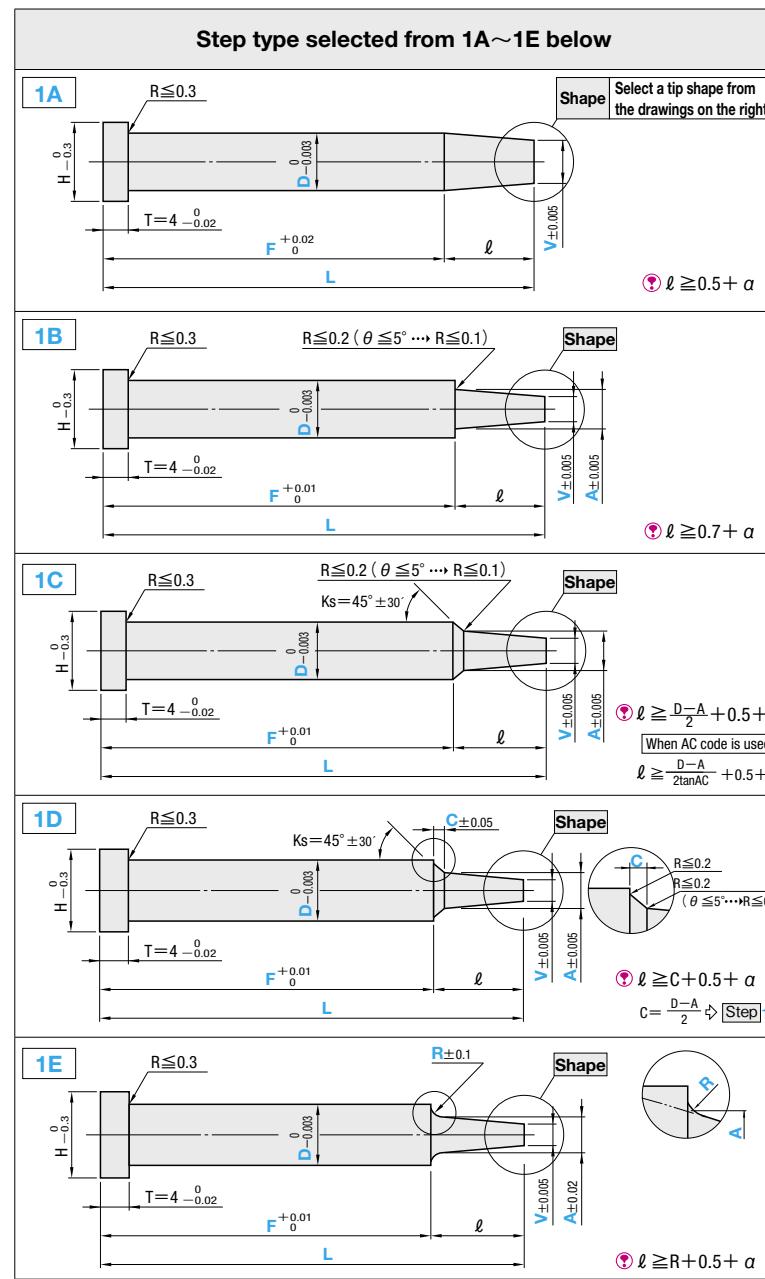
EXTRA PRECISION ONE-STEP CORE PINS

—SHAFT DIAMETER (D) SELECTION TYPE—



When exceeds the working limit of tip (l) dimension (Refer to the step drawing lower right)… Details of the tip (l) short type [P.459](#)

M H	Part Number		
	Type	Step	Shape
SKH51 equivalent 58~60HRC	CPM—	1A	Not processed
		1B	C
		1C	G
		1D	T
		1E	R



Shape (Tip shape: V is dimension before tip processing.)	
(Not processed)	Designation of the shape is unnecessary when tip processing is not required. $a = 0$
C (C chamfered)	$0.1 \leq G < V/2$ 0.05mm increments $a = G$ $\theta < 45^\circ$
G (Cone)	$20 < K \leq 60$ 1° increments $a = \frac{V}{2\tan K}$ $\theta < K$
T (Tapered)	$0.1 \leq S < \frac{V}{2\tan K}$ 0.05mm increments $10 \leq K \leq 45$ 1° increments $a = S$ $\theta < K$
R (R chamfered)	$0.2 \leq Q < V/2$ 0.1mm increments $a = Q$
B (Spherical processed)	$a = V/2$

(Calculation of tip gradient θ [P.1315](#))

H	Part Number				0.01mm increments				0.005mm increments		0.1mm increments		$\ell_{max.}$
	Type	Step	Shape	D	min.	max.	min.	max.	A	Vmin.	C	R	
3	CPM—	1A	Designation is unnecessary when tip processing is not required.	1									
4		1B		1.5						0.500			
5		1B		2						0.700			
6		1B		2.5						1.000			
7		1B		3						1.500			
8		1C	Refer to the Step drawing for A designation necessary for A	4	14.00	100.00	12.00						
9		1C		4.5									
10		1D		5									
11		1D		5.5									
15		1E		6									
18		1E		6.5									
				7									
				8									
				10									
				13									

Order	Part Number — L — F — A — V — C · R — Tip size (K · S · G · Q)
	CPM-1A 5 — 58.00 — F40.00 — V4.500
	CPM-1CC6.5 — 54.50 — F48.35 — A5.500 — V5.300
	CPM-1ET 4 — 42.00 — F35.00 — A3.200 — V3.100 — R0.4 — K35 — S1.0
Days to Ship	Quotation
Alterations	Part Number — L — F(FC) — A — V(VC) — C(CVC) · R — Tip size (K · S · G · Q) — (KC · WKC · etc.)
	CPM-1DC6 — 50.00 — F40.00 — A5.000 — V3.100 — CVC0.10 — G1.0 — HC8.0 — NHC-23 Alteration details P.441
	CPM-1A 5 — 58.00 — F50.00 — V4.000
Alterations	Quotation
Alterations	Code Spec. 1Code
	TRN Relief under the head (No need for plate chamfering)
	NHC Numbering on the head How to order P.442 Available when $H \geq 2$ Combination with SKC not available.
	AC Changes the standard angle ($K = 45^\circ$) AC = 1° increments Available for Step 1C/1D $30 \leq AC \leq 60$ Combination with CVC not available. When [Step] 1D, C = 1.0 · A + 2(C × tan AC) $< D$
	CVC C dimension can be designated at 0.01mm increments. $0.10 \leq CVC \leq 1.00$ Available for Step 1D $CVC < (D - A)/2$ Combination with AC not available.
	VC Vmin. is enlarged. VC = 0.005mm increments $1 \leq D \leq 4.5$, $5 \leq D \leq 6.5$, $6 \leq D \leq 10$, $2.00 \leq VC \leq 1.500$ Regarding D = 2~3, 4.5, 5 and 13, Vmin. is the machining limit, and VC cannot be used.
	FC F dimension becomes shorter than Fmin. Makes L dimension shorter than L min. too. FC = 5mm It can be designated up to Lmin. = 6.5mm.
	LKC Changes L dimension tolerance $L \pm 0.005$ (L designation in 0.005mm increments possible) Available when $1.5 \leq D \leq 5$ Combination with FC not available No [Shape] machining Available for C/T/R
	GVC Gas vent machining GS = GB = 1mm increments Available when D ≥ 2 $2 \leq GS \leq 10$, $GS + 2 \leq GB \leq 30$ Fmin. = F - GB How to order P.442

For details of a Gas Release Core Pin, which is a product similar to alteration GVC, [P.473](#)

Series-Type
Pins
Extra precision