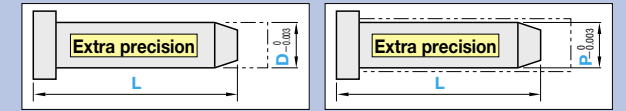


EXTRA PRECISION STRAIGHT CORE PINS WITH TIP PROCESS

—SHAFT DIAMETER (D) SELECTION TYPE / SHAFT DIAMETER (P) DESIGNATION (0.001mm INCREMENTS) TYPE—



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

	RoHS		Part Number	
			Type	Shape
			Shaft diameter (D) selection type	C
			CPML	G
			Shaft diameter (P) designation type	T
			CPMBL	R
				B

Shape (Tip shape)

Shape C (C chamfered)

$C \dots 0.05\text{mm increments}$
 $0.1 \leq C \leq \frac{(D \text{ or } P) - 0.2}{2}$
 and
 $L - C \geq 9.5$
 ※When GVC code is used $\ell = C$

Shape G (Cone)

$K \dots 0.5^\circ \text{ increments}$
 $20 \leq K \leq 60$
 and
 $(L - \ell) \geq 10$
 Ⓜ ℓ calculation formula
 $\ell = \frac{(D \text{ or } P)}{2 \tan K}$

Shape T (Tapered)

$F \dots 0.01\text{mm increments}$ $K \dots 1^\circ \text{ increments}$
 $F \geq 10.00$ $1 \leq K \leq 45$
 and
 $0.3 \leq (L - F) \leq \frac{L}{2}$ ※When GVC code is used $\ell = L - F$
 and
 $\frac{(D \text{ or } P)}{2} - (L - F) \tan K \geq 0.1$

Shape R (R chamfered)

$R \dots 0.1\text{mm increments}$
 $0.2 \leq R \leq \frac{(D \text{ or } P) - 0.2}{2}$
 and
 $L - R \geq 10$
 ※When GVC code is used $\ell = R$

Shape B (Spherical processed)

When $R > (D \text{ or } P)/2$
 $R \dots 0.1\text{mm increments}$
 $(D \text{ or } P)/2 < R \leq 1.5 \times (D \text{ or } P)$
 $\{(D \text{ or } P) \geq 4 \dots (D \text{ or } P)/2 < R \leq 3 \times (D \text{ or } P)\}$
 Ⓜ However, $R \leq 32$ and $L - \ell \geq 10$
 Ⓜ ℓ calculation formula
 $\ell = R - \sqrt{R^2 - \frac{(D \text{ or } P)^2}{4}}$

Shaft diameter (D) selection type

H	Part Number		L 0.01mm increments	Shape (Tip size)
	Type	Shape		
3	CPML	C	0.6	Shape C C...0.05mm increments
			0.8	Shape G K...0.5° increments
			1	
			1.5	
			2	
4	CPML	G	2.5	Shape T F...0.01mm increments K...1° increments
3				
3.5				
4				
4.5			CPML	T
5	Shape B When $R = D/2$ designate RQR When $R > D/2$ R...0.1mm increments Refer to the working limits shown in the drawing.			
6				
7				
8				
9	CPML	R	5.5	Shape B When $R = D/2$ designate RQR When $R > D/2$ R...0.1mm increments Refer to the working limits shown in the drawing.
6				
6.5				
7				
8				
10	CPML	B	6.5	Shape B When $R = D/2$ designate RQR When $R > D/2$ R...0.1mm increments Refer to the working limits shown in the drawing.
7				
8				
10				
15				
15	CPML	R	10	Shape R R...0.1mm increments
18			13	

Shaft diameter (P) designation type

H	Part Number		L 0.01mm increments	P 0.001mm increments	Shape (Tip size)
	Type	Shape			
3	CPMBL	C	0.8	0.600 ~ 0.799	Shape C C...0.05mm increments
			1	0.800 ~ 0.999	Shape G K...0.5° increments
			1.5	1.000 ~ 1.499	
			2	1.500 ~ 1.999	
4	CPMBL	C	2.5	2.000 ~ 2.499	Shape T F...0.01mm increments K...1° increments
5			2.500 ~ 2.999		
6			3.000 ~ 3.499		
7			3.500 ~ 3.999		
8			CPMBL	T	10.00~60.00
5	4.500 ~ 4.999	Shape B When $R = P/2$ designate RQR When $R > P/2$ R...0.1mm increments Refer to the working limits shown in the drawing.			
6	5.000 ~ 5.499				
7	5.500 ~ 5.999				
8	6.000 ~ 6.499				
10	CPMBL	B	6.5	6.500 ~ 6.999	Shape B When $R = P/2$ designate RQR When $R > P/2$ R...0.1mm increments Refer to the working limits shown in the drawing.
7			7.000 ~ 7.999		
8			8.000 ~ 9.999		
15			10.000 ~ 12.999		
18					

Order Part Number — L — P — Tip size (C · F · K · R)

CPMLC 3 — 35.72 — — C0.2

CPMBLB 3 — 35.72 — P2.770 — R2.1

Days to Ship Quotation

Alterations Part Number — L — P — Tip size (C · F · K · R) — (KC · WKC...etc.)

CPMLR3.5 — 45.47 — — R0.3 — WKC2.3

CPMBLT5 — 34.00 — P4.560 — F30.00 — K5 — HC6

Price Quotation

Alteration details P.395

Alterations	Code	Spec.	1Code
	KC	Single flat cutting (D or P)/2 ≤ KC < H/2	
	WKC	Two flats cutting (D or P)/2 ≤ WKC < H/2	
	KAC	Varied width parallel flats cutting (D or P)/2 ≤ KAC < H/2	
	KBC	KBC = 0.1mm increments only KAC < KBC < H/2	
	RKC	Two flats (right angled) cutting (D or P)/2 ≤ RKC < H/2	
	DKC	Three flats cutting (D or P)/2 ≤ DKC < H/2	
	SKC	Four flats cutting (D or P)/2 ≤ SKC < H/2	
	KGC	Two flats (angled) cutting (D or P)/2 ≤ KGC < H/2 0 < AG < 360 AG = 1° increments	
	KTC	Three flats cutting at 120° (D or P)/2 ≤ KTC < H/2	
	LKC	L dimension tolerance alteration L - 0.01 ~ L - 0.005 (L dimension: designation in 0.005mm increments possible) Ⓜ Available when 1.5 ≤ (D or P) ≤ 5 Ⓜ Available when [Shape] C · T · R	
	HC	Head diameter change HC = 0.1mm increments (D or P) ≤ HC < H Ⓜ In relation to the diameter tolerance, alteration may create a straight piece with little diameter difference between the head and shaft.	
	HCC	Head diameter change (precision) HCC = 0.1mm increments (D or P) + 0.5 ≤ HCC < H - 0.3	
	TC	Head thickness change TC = 0.1mm increments 1.5 ≤ TC < 4 (Dimension L remains unchanged.) 4 - TC ≤ Lmax. - L	
	TRN	Relief under the head (No need for plate chamfering)	
	NHC	Numbering on the head How to order P.396 Ⓜ Available when H ≥ 2 Ⓜ Combination with SKC not available.	
	GVC	Gas vent machining GS · GB = 1mm increments Ⓜ Available when (D or P) ≥ 2 Ⓜ 2 + ℓ ≤ GS ≤ 12 GS + 2 ≤ GB ≤ 30 L - GB ≥ 10 How to order P.396	