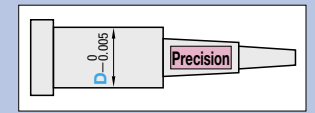


# PRECISION TWO-STEP CORE PINS

—SHAFT DIAMETER (D) SELECTION TYPE—



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

RoHS	Part Number			
	Step 1	Material code	$\frac{M}{E}$	Step 2
	CA	Z	SKD61 equivalent 48~52HRC	A
	CB			B
	CC			C
	CD			D
	CE			E
				V

### Step1 (shape for first step) select from CA~CE below

**CA**

Step2 Select a step shape from the drawings on the right.

$F+0.5 \leq Y$

**CB**

Step2

$F+0.7 \leq Y$

**CC**

Step2

$F + \frac{D-A}{2} + 0.5 \leq Y$

When AC code is used  
 $F + \frac{D-A}{2 \tan AC} + 0.5 \leq Y$

**CD**

Step2

Details of part ①

$C < \frac{D-A}{2}$

$C = \frac{D-A}{2}$  [Step1] CC

$C \leq 1.0$

$F+C+0.5 \leq Y$

**CE**

Step2

Details of part ②

$0.2 \leq R \leq \frac{D-A}{2}$

$F+R+0.5 \leq Y$

### Step2 (shape for second step)

**A** (Designation of V=E possible)

$Y+0.5 \leq L$

**B**

$Y+0.7 \leq L$

**C**

When AGC code is used  
 $Y + \frac{V-J}{2} + 0.5 \leq L$

**D**

Details of part ③

$Y+G+0.5 \leq L$

**E**

Details of part ④

$Y+Q+0.5 \leq L$

H	Part Number		0.01mm increments							0.1mm increments				ℓmax.			
	Step1	Material	Step2	D	L min.	L max.	F	Y	A	V	J	Emin.	C		R	G	Q
3				1								0.50					A×6 Step1 CA =D×6 and 50.00
4				2		100.00						0.70					
5	CA		A	2.5								1.00					
6				3								1.00					
7	CB		B	3.5								1.00					
8	CC	Z	C	4		120.00	$F \geq 12.00$					1.50					
9	CD		D	4.5								1.50					
10	CE	V	E	5		120.00						2.00					
11				5.5								2.00					
15				6								2.50					
18				6.5								2.50					
21				7								2.50					
25				8		150.00						5.00					
				10								5.00					
				13								5.00					
				16								5.00					
				20		30.00	$F \geq 28.00$					5.00					

Order

Part Number	L	F	Y	A	V	J	E	C·R	G·Q
CAZA 5	56.50	F48.00	Y52.00	A	V4.20	J	E2.80		
CCZD 5.5	49.95	F35.00	Y40.00	A4.50	V4.30	J3.50	E3.20		G0.3
CEVE 6	55.75	F43.50	Y48.76	A5.00	V4.80	J3.80	E3.00	R0.4	Q0.4

Days to Ship

Quotation

Price Quotation

Alterations

Part Number	L	F(FC)	Y	A	V	J	E	C·R	G·Q	(KC·WKC...etc.)
CEZA5	56.50	F48.00	Y52.00	A4.20	V4.10	J	E2.80	R0.3		RKC2.4

Alterations	Code	Spec.	1Code
	KC	Single flat cutting $D/2 \leq KC < H/2$	
	WKC	Two flats cutting $D/2 \leq WKC < H/2$	
	KAC KBC	Varied width parallel flats cutting $D/2 \leq KAC < H/2$ KBC=0.1mm increments only $KAC < KBC < H/2$	
	RKC	Two flats (right angled) cutting $D/2 \leq RKC < H/2$	
	DKC	Three flats cutting $D/2 \leq DKC < H/2$	
	SKC	Four flats cutting $D/2 \leq SKC < H/2$	
	KGC	Two flats (angled) cutting $D/2 \leq KGC < H/2$ $0 < AG < 360$ AG=1° increments	
	KTC	Three flats cutting at 120° $D/2 \leq KTC < H/2$	

Quotation

Alterations	Code	Spec.	1Code
	HC	Head diameter change $D \leq HC < H$ Ⓜ In relation to the diameter tolerance, alteration may create a straight piece with little diameter difference between the head and shaft.	
	HCC	Head diameter change (precision) HCC=0.1mm increments $D+0.5 \leq HCC < H-0.3$	
	TC	Head thickness change TC=0.1mm increments $1.5 \leq TC < 4$ (Dimensions L, Y, and F remain unchanged) $4-TC \leq Lmax.-L$	
	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 (Ks=45°). AC=1° increments Ⓜ Available for [Step1] CC/CD Ⓜ $30 \leq AC \leq 60$ Ⓜ When [Step1] CD : $A+2 (C \times \tan AC) < D$	
	AGC	Changes the standard angle (Z=45°). AGC=1° increments Ⓜ Available for [Step2] C/D Ⓜ $30 \leq AGC \leq 60$ Ⓜ When [Step2] D : $J+2 (G \times \tan AGC) < V$	
	FC	F dimension becomes shorter than Lmin. too. Makes L dimension shorter than Lmin. too. $FC \geq 5mm$ Ⓜ It can be designated up to Lmin.=6.5mm.	
	GVC	Gas vent machining GS·GB=1mm increments Ⓜ Available when $D \geq 2$ Ⓜ $2 \leq GS \leq 10$ GS+2≤GB≤30 Fmin.≤F-GB How to order Ⓜ P.442	

Quotation