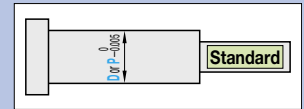


TAPERLESS ONE-STEP CORE PINS (NO DRAFT ANGLE CORE PINS)

—LAPPED · SHAFT DIAMETER (D) SELECTION / SHAFT DIAMETER (P) DESIGNATION (0.01mm INCREMENTS) TYPE—



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

Material	Part Number			
	Type	Shaft diameter (D) selection	Shaft diameter (P) designation	Step
SKD61 equivalent 48~52HRC	L-CPPS	L-CPPBS	B	S
SKH51 equivalent 58~60HRC	L-CPHS	L-CPHBS	C	G
			D	T
			E	R
				B

The ℓ dimension face and the tip face of this product are lapped.

Step (Step type) Select from B~E in the drawing below.

B

Shape Select a tip shape from the drawings on the right.

C

Shape

D

Shape

E

Shape

Shape (Tip shape)

S (Not processed)

$\alpha = 0$

C (C chamfering)

$45^\circ \pm 30'$
 $0.1 \leq G < A/2$
0.1mm increments
 $\alpha = G$

G (Cone)

$K' \pm 30'$
 $20 < K \leq 60$
1° increments
 $\alpha = \frac{A}{2 \tan K}$

T (Tapered)

$K' \pm 30'$
 $0.1 \leq S < \frac{A}{2 \tan K}$
0.1mm increments
 $0 < K \leq 45$
1° increments
 $\alpha = S$

R (R chamfering)

$Q \pm 0.1$
 $0.2 \leq Q < A/2$
0.1mm increments
 $\alpha = Q$

B (Spherical processed)

$SR = A/2$
 $\alpha = A/2$

Refer to the [Shape] drawing for L tolerance

Part Number	L	P	F	A	C · R	Tip size (K · S · G · Q)
Shaft diameter (D) selection type L-CPPS - BS 4	45.55		F40.00	A3.50		
Shaft diameter (P) designation type L-CPPBS - BS 4	45.55	P3.98	F40.00	A3.50		

Shaft diameter (D) selection type

H	Part Number			0.01mm increments				0.1mm increments		ℓ max.		
	Type	Step	Shape	L		F		A				
3	L-CPPS	B	S	1.5	12.00	10.00	L- ℓ min. Refer to [Step] drawing	1.00	D > A	Only [Step] D is designated. Only [Step] E is designated. $C < \frac{D-A}{2}$ and $0.1 \leq C \leq 4.0$	Only [Step] E is designated. $R \leq \frac{D-A}{2}$ and $R \geq 0.2$	$\ell \leq A \times 6$ and $\ell \leq 30$
4			C	2								
5			G	2.5								
6			T	3								
7			R	3.5								
8			B	4								
9				4.5	120.00	10.00	1.50	2.00				

Shaft diameter (P) designation type

H	Part Number			0.01mm increments				0.1mm increments		ℓ max.		
	Type	Step	Shape	L		F		A				
3	L-CPPBS	B	S	1.5	12.00	10.00	L- ℓ min. Refer to [Step] drawing	1.00	P > A	Only [Step] D is designated. Only [Step] E is designated. $C < \frac{P-A}{2}$ and $0.1 \leq C \leq 4.0$	Only [Step] E is designated. $R \leq \frac{P-A}{2}$ and $R \geq 0.2$	$\ell \leq A \times 6$ and $\ell \leq 30$
4			C	2								
5			G	2.5								
6			T	3								
7			R	3.5								
8			B	4								
9				4.5	120.00	10.00	1.50	2.00				

Days to Ship

Alterations

Quotation

P Price

Quotation

Part Number	L	P	F	A(AAC)	C(CVC) · R(RE)	K · S · G · Q	(K · WKC...etc.)
Shaft diameter (D) selection type L-CPPS - DC8	65.00		F55.00	A3.50	C0.5	G0.5	KC3.0 - TC3.0
Shaft diameter (P) designation type L-CPPBS - DC8	65.00	P5.75	F55.00	A3.50	C0.5	G0.5	KC3.0 - TC3.0

Alteration details P.495

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 KBC	Varied width parallel flats cutting (D or P)/2 ≤ KAC < H/2 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	
	HC	Head diameter change HC = 0.1mm increments (D or P) ≤ HC < H	
	HCC	Head diameter change (precision) HCC = 0.1mm increments (D or P) + 0.5 ≤ HCC < H - 0.3	

Alterations	Code	Spec.	1Code
	TC	Head thickness change TC = 0.1mm increments 1.5 ≤ TC < 4 (Dimensions L and F remain unchanged) 4 - TC ≤ Lmax - L	
	TRN	Relief under the head (Makes plate chamfering unnecessary)	
	NHC	Numbering on the head How to order P.496 Combination with SKC not available.	
	RE	R shape alteration (enlargement) RE = 0.5mm increments 0.5 ≤ RE ≤ 2.0 F tolerance is +0.05 Available for [Step] E	
	CVC	C dimension can be designated at 0.01mm increments. 0.10 ≤ CVC ≤ 1.00 CVC = 0.01mm increments Available for [Step] D	
	AAC	Extends the working limit of A min. AAC = 0.01mm increments In case of (D or No.) = 2 ~ 3 · 4 · 5 · A min. is the machining limit, and AAC cannot be used. ℓ ≤ 5 × AAC	
	AC	Changes the standard angle (Ks = 45°). AC = 1° increments Available for [Step] C · D 30 ≤ AC ≤ 60 When [Step] D, C ≤ 1.0, A + 2 (C · tan AC) < (D or P)	
	GVC	Gas vent machining GS · GB = 1mm increments Available when (D or P) ≥ 2 2 ≤ GS ≤ 10 GS + 2 ≤ GB ≤ 30 F min. ≤ F - GB How to order P.496	



Order