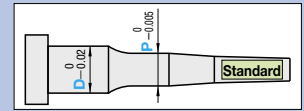
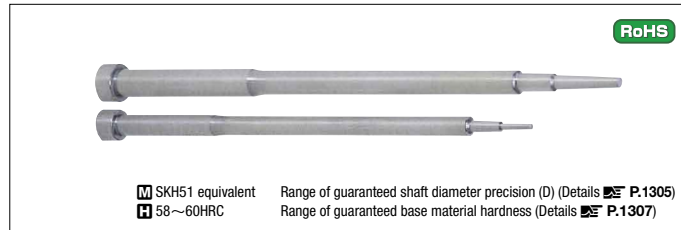


# STEPPED TWO-STEP CENTER PINS

—SHAFT DIAMETER (P) DESIGNATION (0.01mm INCREMENTS) TIP (A · V · J · E) TOLERANCE : ±0.01 TYPE—

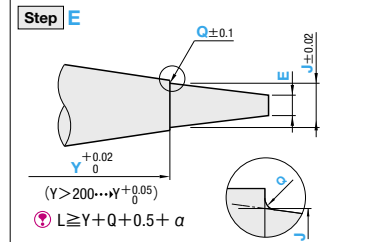
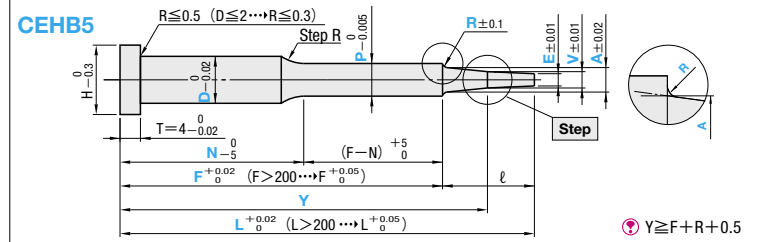
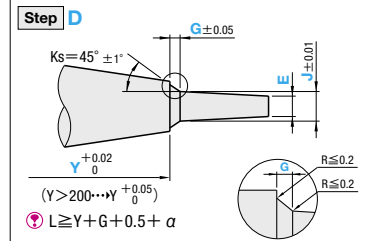
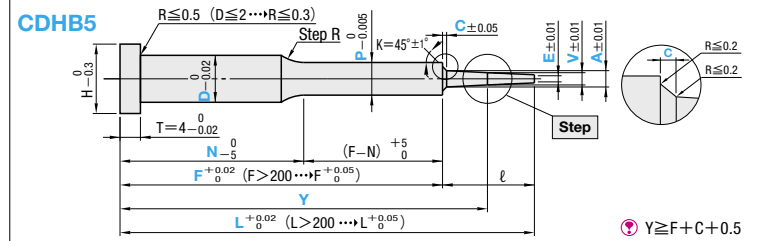
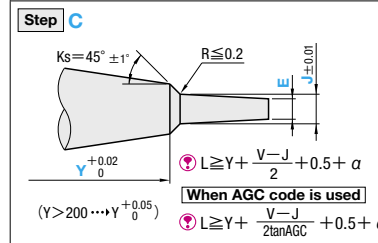
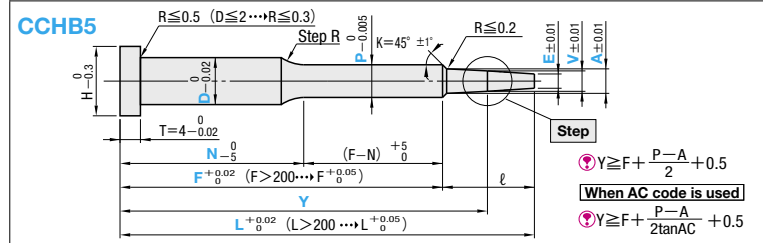
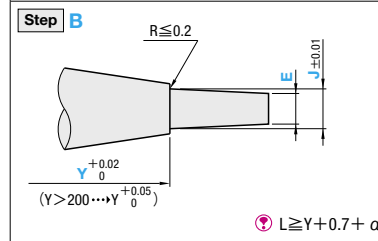
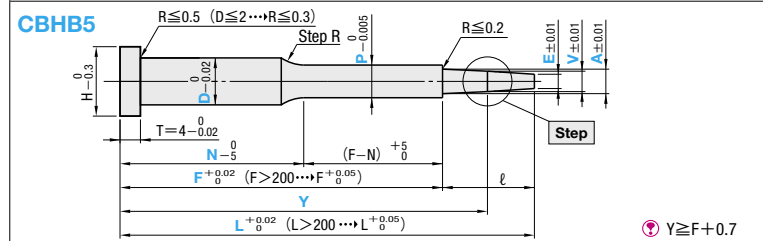
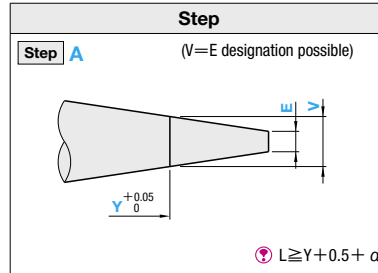
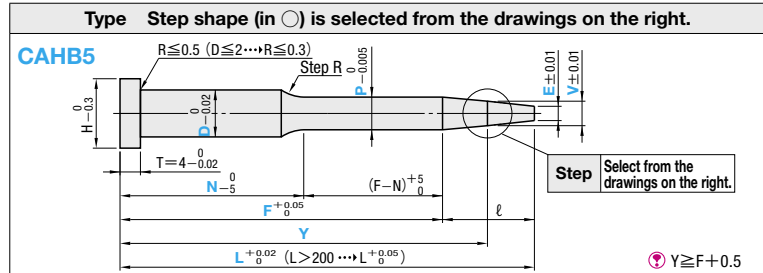


Ⓢ Non JIS material definition is listed on P.1351 - 1352



SKH51 equivalent Range of guaranteed shaft diameter precision (D) (Details P.1305)  
58~60HRC Range of guaranteed base material hardness (Details P.1307)

Type	P	Head Thickness (T)	Applicable ejector sleeve hole tolerance
□HB5	0 -0.005	4mm (T4)	+0.005 0 Details P.1309



H	Part Number		0.01mm increments						0.1mm increments			ℓ max.					
	Type	Step	D	L	P	F	Y	A	V	J	Emin.		C · R	G · Q	N		
3	CAHB5 CBHB5 CCHB5 CDHB5 CEHB5	A B C D E	1.5	70.00~200.00	1.00~1.49	F ≥ 55.00	Refer to the working limits shown in the drawing	P > A and A ≥ V	A ≥ V and V > J	V > J and J ≥ E	0.50	when [Type] CDHB5 0.1 ≤ C ≤ 1.5 and C < (P-A)/2	[Step] D only 0.1 ≤ G ≤ 0.5 and G < (V-J)/2	N ≥ 25.0 and (F-N) ≤ 30 and (F-N) ≤ 200	20		
4			2	70.00	1.50~1.99										25		
5			2.5	250.00	1.50~2.49										30		
6			3	100.00	2.00~2.99										35		
7			3.5	300.00	2.50~3.49										40		
8			4		3.00~3.99										45		
9			4.5	3.50~4.49	1.50										when [Type] CEHB5 R ≥ 0.3 and R ≤ (P-A)/2	[Step] E only Q ≥ 0.3 and Q ≤ (V-J)/2	50
10			5	4.00~4.99													
11			5.5	5.00~5.49	2.00										when [Type] REHB5 R ≥ 0.3 and R ≤ (P-A)/2	[Step] E only Q ≥ 0.3 and Q ≤ (V-J)/2	
14			6	5.50~5.99													
15			6.5	6.00~6.49	2.50										when [Type] REHB5 R ≥ 0.3 and R ≤ (P-A)/2	[Step] E only Q ≥ 0.3 and Q ≤ (V-J)/2	
17			7	6.50~6.99													
17	8	7.00~7.99															
17	9	8.00~8.99															
17	10	9.00~9.99															
17	12	10.00~11.99															

Ⓢ Type CEHB5 is D ≥ 1.5 (P ≥ 1.10) ~

Alterations Part Number L P F Y A V J E C · G · R · Q N (KC · WKC...etc.)

CCHB5B 5 - 150.00 - P4.80 - F100.00 - Y120.00 - A4.50 - V4.20 - J3.80 - E2.80 - N30.0 - WKC2.5

Alterations	Code	Spec.	1Code
	WKC	Single flat cutting (precision) D/2 ≤ WKC < H/2	
	VWC	Two flats cutting (precision) D/2 ≤ VWC < H/2	
	KC	Single flat cutting D/2 ≤ KC < H/2	
	WKC	Two flats cutting D/2 ≤ WKC < H/2	
	KAC	Varied width parallel flats cutting D/2 ≤ KAC < H/2	
	KBC	KBC=0.1mm increments only KAC < KBC < H/2	
	RKC	Two flats (right angled) cutting D/2 ≤ RKC < H/2	
	DKC	Three flats cutting D/2 ≤ DKC < H/2	
	AGC	Two flats (angled) cutting D/2 ≤ AGC < H/2	
	KGC	AG=1° increments 0 < AG < 360	
	KTC	Three flats cutting at 120° D/2 ≤ KTC < H/2	
	HC	HC=0.1mm increments D ≤ HC < H	
	HCC	HCC=0.1mm increments D+1 ≤ HCC < H-0.3	

Alteration details P.351

Alterations	Code	Spec.	1Code
	TC	TC=0.1mm increments 2.0 ≤ TC < 4	
	NC	Dowel hole boring Available when H ≥ 4	
	NCW	Dowel hole boring + Spring pin driving Available when H ≥ 4	
	NHC	Numbering on the head How to order P.352	
	NHN	Automatic sequential numbering on the head How to order P.352	
	CX	CX=0.1mm increments 0.3 ≤ CX ≤ 0.5, CX < E/2	
	RX	RX=0.1mm increments P ≤ 4.5, 0.3 ≤ RX ≤ 0.5, RX < E/2	
	SR	Finishes the tip in spherical shape (SR). Available when P ≥ 2	
	AC	Changes the standard angle (K=45°). AC=1° increments 30 ≤ AC ≤ 60	
	AGC	Changes the standard angle (Ks=45°). AGC=1° increments 30 ≤ AGC ≤ 60	
	RR	Changes R (normally 0.2 or less) to R0.3~0.5. Available for [Step] B · C · D	

P Price Quotation

Order Part Number L P F Y A V J E C · G · R · Q N

CCHB5B 5 - 150.00 - P4.80 - F100.00 - Y120.00 - A4.50 - V4.20 - J3.80 - E2.80 - N30.0

Days to Ship Quotation

Stepped Center Pins  
High Speed Steel SKH51 equivalent