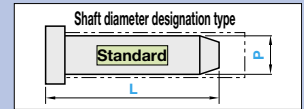


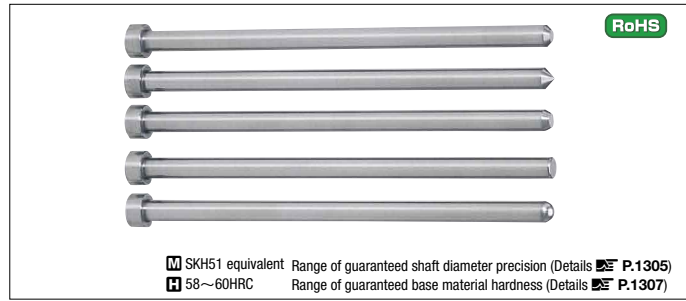
High Speed Steel
SKH51 equivalent
P $\begin{matrix} 0 \\ -0.005 \end{matrix}$ / P $\begin{matrix} -0.01 \\ -0.02 \end{matrix}$

STRAIGHT CENTER PINS WITH TIP PROCESS

—SHAFT DIAMETER (P) DESIGNATION (0.01mm INCREMENTS) TYPE—



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



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

Type	P	Head thickness (T)	Applicable ejector sleeve hole tolerance
CPHG-5L	0 -0.005	4mm (T4)	+0.005 0 Detail P.1309
CPHJG-5L		6 · 8mm (JIS)	
CPHGE-5L	-0.01 -0.02	4mm (T4)	+0.01 or H7 0 Detail P.1309
CPHJGE-5L		6 · 8mm (JIS)	

Shape (Tip shape)

Shape C
(C chamfered)

$C \dots 0.1\text{mm increments}$
 $0.1 \leq C \leq \frac{P-0.2}{2}$

Shape G
(Cone)

$K \dots 1^\circ \text{ increments}$
 $45 \leq K < 90$

Shape T
(Tapered)

$S \dots 0.1\text{mm increments}$ $K \dots 1^\circ \text{ increments}$
 $(L-S) \geq 45$ and $1 \leq K \leq 45$
and $0.1 \leq S \leq P \times 2$
and $\frac{P}{2} - \text{Stank} \geq 0.1$

Shape R
(R chamfered)

$R \dots 0.1\text{mm increments}$
 $0.2 \leq R \leq \frac{P-0.2}{2}$

Shape B
(Spherical)

• Default $R (SR) = \frac{P}{2}$
* SR may be designated within $\frac{P}{2} < R \leq 2 \times P$
 $R \dots 0.1\text{mm increments possible}$

4mm head		JIS head		Part Number				0.01mm increments		Shape (Tip size)						
H	T	H	T	Type		Shape	No.	L	P							
				4mm head	JIS head											
3	4	—	—	CPHG-5L CPHGE-5L	—	C G T R B	1	50.00~150.00	0.80~0.99	Shape C $C \dots 0.1\text{mm increments}$						
4							150.01~200.00	0.90~0.99								
5							200.01~250.00	1.00~1.49								
6							6	8	6	CPHJG-5L CPHJGE-5L	—	C G T R B	2	50.00~250.00	1.50~1.99	Shape G $K \dots 1^\circ \text{ increments}$
7													250.01~300.00	2.00~2.49		
8													300.01~350.00	2.50~2.99		
9													350.01~400.00	3.00~3.49	Shape T $S \dots 0.1\text{mm increments}$ $K \dots 1^\circ \text{ increments}$	
10													400.01~450.00	3.50~3.99		
11													450.01~500.00	4.00~4.49		
12							6	8	6	CPHJG-5L CPHJGE-5L	—	C G T R B	3	50.00~300.00	4.50~4.99	Shape R $R \dots 0.1\text{mm increments}$
13													300.01~350.00	5.00~5.49		
14													350.01~400.00	5.50~5.99		
15	400.01~450.00	6.00~6.49	Shape B Default $R (SR) = \frac{P}{2}$ $(R \dots 0.1\text{mm increments possible})$													
16	450.01~500.00	6.50~6.99														
17	500.01~550.00	7.00~7.99														

Alterations Part Number L P Tip size (C · S · K · R) (KC · WKC...etc.)
 CPHG-5LC5 - 100.00 - P4.85 - C1.0 - HC7.0
 CPHJG-5LT5 - 100.00 - P4.85 - S2.0-K30 - HC7.0

Alterations	Code	Spec.	1Code	Alterations	Code	Spec.	1Code
	VVK	Precision single flat cutting $P/2 \leq VVK < H/2$			HC	$HC = 0.1\text{mm increments}$ $P \leq HC < H, P \geq 1.5$ Ⓜ In relation to the diameter tolerance, alteration may create a straight piece with little diameter difference between the head and shaft.	
	VWC	Precision two flats cutting $P/2 \leq VWC < H/2$			HCC	$HCC = 0.1\text{mm increments}$ $P+1 \leq HCC < H-0.3, P \geq 1.5$	
	KC	Single flat cutting $P/2 \leq KC < H/2$			TC	$TC = 0.1\text{mm increments}$ $T/2 \leq TC < T, P \geq 1.5$ $T - TC \leq L_{\text{max}} - L$ (Dimension L remains unchanged.)	
	WKC	Two flats cutting $P/2 \leq WKC < H/2$			NC	Dowel hole boring Ⓜ Available when $H \geq 4$ Ⓧ Combination with other than NHC · NHN not available	
	KAC KBC	Varied width parallel flats cutting $P/2 \leq KAC < H/2$ $KBC = 0.1\text{mm increments only}$ $KAC < KBC < H/2$			NCW	Dowel hole boring + Spring pin driving Ⓜ Available when $H \geq 4$ Ⓧ Combination with other than NHC · NHN not available	
	RKC	Two flats (right angled) cutting $P/2 \leq RKC < H/2$			NHC	Numbering on the head How to order P.338 Ⓜ Available when $H \geq 2$	
	DKC	Three flats cutting $P/2 \leq DKC < H/2$			NHN	Automatic sequential numbering on the head How to order P.338 Ⓜ Available when $H \geq 2$	
	KGC	Two flats (angled) cutting $P/2 \leq KGC < H/2$ $AG = 1^\circ \text{ increments}$ $0 < AG < 360$					
	KTC	Three flats cutting at 120° $P/2 \leq KTC < H/2$					

P Price **Quotation**

Order Part Number L P Tip size (C · S · K · R)
 CPHG-5LC5 - 100.00 - P4.85 - C1.0
 CPHJG-5LT5 - 100.00 - P4.85 - S2.0-K30

Days to Ship **Quotation**

Straight Center Pins
High Speed Steel SKH51 equivalent