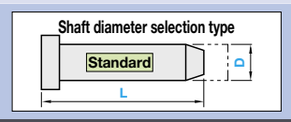
High Speed Steel
SKH51 equivalent
$D^{0}_{-0.005}$ /$D^{-0.01}_{-0.02}$

STRAIGHT CENTER PINS WITH TIP PROCESS

—SHAFT DIAMETER (D) SELECTION TYPE—

Shaft diameter selection type



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

RoHS

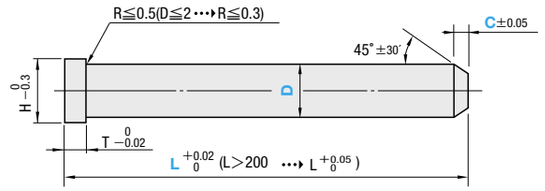
M SKH51 equivalent
H 58～60HRC

Range of guaranteed shaft diameter precision (Details P.1305)
Range of guaranteed base material hardness (Details P.1307)

Type	T / D	Head thickness (T)	Applicable ejector sleeve hole tolerance
CPH —5L	$0_{-0.005}$	4mm (T4)	$+0.005_{0}$ Detail P.1309
CPHJ —5L		6・8mm (JIS)	
CPHE —5L	$-0.01_{-0.02}$	4mm (T4)	$+0.01_{0}$ or H7 Detail P.1309
CPHJE—5L		6・8mm (JIS)	

Shape (Tip shape)

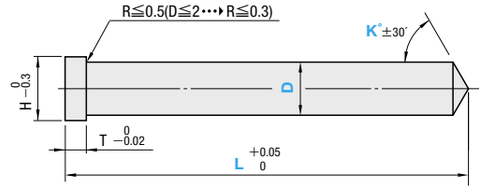
Shape C (C chamfered)



C⋯0.1mm increments

$0.1 \leqq C \leqq \frac{D-0.2}{2}$

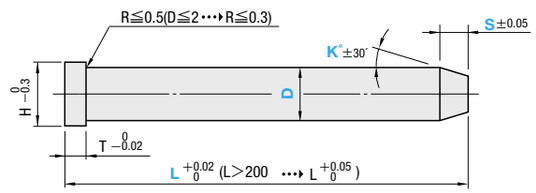
Shape G (Cone)



K⋯1° increments

45≦K＜90

Shape T (Tapered)



S⋯0.1mm increments

(L—S)≧45

and

$0.1 \leqq S \leqq D \times 2$

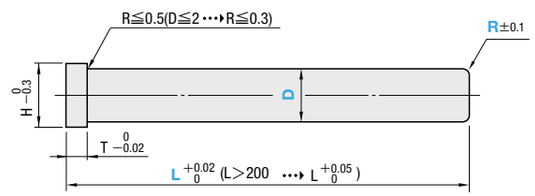
and

$\frac{D}{2}$—StanK≧0.1

K⋯1° increments

1≦K≦45

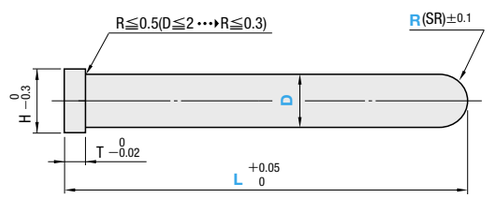
Shape R (R chamfered)



R⋯0.1mm increments

$0.2 \leqq R \leqq \frac{D-0.2}{2}$

Shape B (Spherical)



・Default R (SR)=$\frac{D}{2}$

*SR may be designated within $\frac{D}{2}$＜R≦2×D
R⋯0.1mm increments possible

Order

Part Number	L	Tip size(C・S・K・R)
CPH —5LC5	100.00	C1.0
CPHJ—5LT5	100.00	S2.0—K30

Days to Ship

Quotation

4mm head H	4mm head T	JIS head H	JIS head T	Part Number Type 4mm head	Part Number Type JIS head	Shape	D	L 0.01mm increments
3	4	—	—	CPH —5L CPHE—5L	—	C G T R B	1	50.00～200.00
4							1.5	
5							2	50.00～250.00
6							2.5	
7							3	
8		8	6		CPHJ —5L CPHJE—5L		3.5	50.00～300.00
9		9					4	
10		10					4.5	
10		11					5	
11		13	8				5.5	
14		14					6	
15		15					6.5	50.00～350.00
17		17					7	
							8	
							9	
							10	
							12	

Shape (Tip size)

- Shape C — C⋯0.1mm increments
- Shape G — K⋯1° increments
- Shape T — S⋯0.1mm increments; K⋯1° increments
- Shape R — R⋯0.1mm increments
- Shape B — Default R (SR)=$\frac{D}{2}$ (R⋯0.1mm increments possible)

Refer to the working limits shown in the drawing.

Alterations

Part Number	L	Tip size(C・S・K・R)	(KC・WKC⋯etc.)
CPH —5LB6	100.00	R4.0	HC7.0
CPHJ—5LT5	100.00	S2.0—K30	HC7.0

Alteration details P.338

Alterations	Code	Spec.	1Code
VKC 0 −0.02	VKC	Precision single flat cutting D/2≦VKC＜H/2	
VWC 0 −0.02	VWC	Precision two flats cutting D/2≦VWC＜H/2	
KC 0 −0.1	KC	Single flat cutting D/2≦KC＜H/2	
WKC 0 −0.1	WKC	Two flats cutting D/2≦WKC＜H/2	
KAC KBC 0 −0.1	KAC KBC	Varied width parallel flats cutting D/2≦KAC＜H/2 KBC=0.1mm increments only KAC＜KBC＜H/2	
RKC 0 −0.1	RKC	Two flats (right angled) cutting D/2≦RKC＜H/2	
DKC DKC 0 −0.1	DKC	Three flats cutting D/2≦DKC＜H/2	
AG° ±0.5 0° KGC 0 −0.1	KGC	Two flats (angled) cutting D/2≦KGC＜H/2 AG=1° increments 0＜AG＜360	
120° 120° 120° KTC 0 −0.1	KTC	Three flats cutting at 120° D/2≦KTC＜H/2	

About Designation Unit for Key Flat Cutting

(1)To align the key flat with the shaft diameter
Unit of designation 0.05mm increments possible

(2)To designate arbitrary key flat dimensions
Unit of designation 0.1mm

Quotation

Alterations	Code	Spec.	1Code
H HC 0 −0.3	HC	HC=0.1mm increments D≦HC＜H, D≧1.5 In relation to the diameter tolerance, alteration may create a straight piece with little diameter difference between the head and shaft.	
H HCC 0 −0.02	HCC	HCC=0.1mm increments D+1≦HCC＜H−0.3, D≧1.5	
TC 0 −0.02 T	TC	TC=0.1mm increments T/2≦TC＜T, D≧1.5 T—TC≦Lmax.—L (Dimension L remains unchanged.)	
H d +0.1 0 ℓ T	NC	Dowel hole boring Available when H≧4 Combination with other than NHC・NHN not available	T d ℓ: 4 2 3; 6 8 3 5
H ℓ1 d T	NCW	Dowel hole boring+Spring pin driving Available when H≧4 Combination with other than NHC・NHN not available	T d ℓ1: 4 2; 6 8 3 5
217	NHC	Numbering on the head How to order P.338 Available when H≧2	
1 2 3	NHN	Automatic sequential numbering on the head How to order P.338 Available when H≧2	

Quotation

Price Quotation