

Pivot Pins

Both Ends Tapped, Both Ends Threaded

Pivot Pins / Keys for Precision Pivot Pins

Keyway

Both Ends Tapped

CLBM, PCLBM Identification Groove

2-C 0.5 or Less

M

N

L

Mx2

Nx2

D

25 / (1.6)

Type	Material	Hardness	Surface Treatment
CLBM	S45C Equivalent	40-45HRC	Black Oxide
CLBHM	S45C Equivalent	40-45HRC	Electroless Nickel Plating
PCLBM	SUS304	40-45HRC	Electroless Nickel Plating
PCLBHM	SUS304	40-45HRC	Electroless Nickel Plating
SCLBM	SUS440C Equivalent	45 ~ 50HRC	-

D Tolerance (g6)	
6	-0.004 -0.012
8, 10	-0.005 -0.014
12-18	-0.006 -0.017
20-25	-0.007 -0.020

Part Number	D	L	M (Coarse)	N (Coarse)	CLBM	CLBHM	PCLBM	PCLBHM	SCLBM	SCLBHM
CLBM CLBHM PCLBM PCLBHM SCLBM SCLBHM	6	20.0~100.0	M 3	M 3						
	8	20.0~100.0	M 5	M 5						
	10	25.0~100.0	M 6	M 6						
	12	25.0~200.0	M 6	M 6						
	13	35.0~200.0	M 8	M 8						
	14	35.0~200.0	M 8	M 8						
	15	35.0~200.0	M 8	M 8						
	16	35.0~200.0	M 8	M 8						
	17	35.0~200.0	M 8	M 8						
	18	35.0~200.0	M 8	M 8						
	20	50.0~200.0	M 10	M 10						
	22	50.0~200.0	M 12	M 12						
	25	50.0~200.0	M 16	M 16						

⚠ SCLBHM may be discolored by hardening. ⚠ For full length L, Mx2+Nx2≤L is required.

Both Ends Threaded

M

1/8

D

F

L

T

25 / (1.6)

Type	Material	Hardness	Surface Treatment	Accessory
CLBN	S45C	-	Black Oxide	Nut 2 pcs.
CLBHN	S45C Equivalent	40-45HRC	Black Oxide	M SWRCH
SCLBN	SUS304	-	-	M SUS304 Equivalent
SCLBHN	SUS440C Equivalent	40-45HRC	-	M SUS304 Equivalent

D Tolerance (g6)	
6	-0.004 -0.012
8, 10	-0.005 -0.014
12-18	-0.006 -0.017
20-25	-0.007 -0.020

Part Number	D	L	F, T	M (Coarse)	CLBN	CLBHN	SCLBN	SCLBHN
CLBN CLBHN SCLBN SCLBHN	6	15.0~100.0	9	M 5				
	8	20.0~100.0	9	M 6				
	10	25.0~100.0	12	M 8				
	12	25.0~200.0	16	M 10				
	13	25.0~200.0	16	M 10				
	14	25.0~200.0	16	M 10				
	15	25.0~200.0	16	M 10				
	16	25.0~200.0	16	M 10				
	17	25.0~200.0	16	M 10				
	18	25.0~200.0	16	M 10				
	20	30.0~200.0	18	M 12				
	22	30.0~200.0	24	M 16				
	25	35.0~200.0	24	M 20				

⚠ For L Dimension, Standard Machining Tolerances (Class: Medium) is used. ⚠ There are identification grooves on the side of CLBN to be distinguished from Hardened Type.

Ordering Example

Part Number - L

CLBM15 - 120.3

Alterations

Part Number - L - (MC, NC, NMC, NNC)

CLBM10 - 50 - MC5

Alterations	Thread Diameter	Thread Diameter
MC, NC	MC	NC
	MC	NC

Code	MC, NC	NMC, NNC
Spec.	Ordering Code MC3	Ordering Code NMC8
	D MC, NC (Selection Range)	D NMC, NNC (Selection Range)
8	3 4	3 4
10	4 5	3 4 5
12	4 5	4 5 6
13, 14	5 6	4 5 6 8
15	5 6 8	4 5 6 8 10
16-18	6 8	5 6 8 10
20, 22	8 10	6 8 10 12
25	10 12	8 10 12 16

⚠ Not applicable to D6. ⚠ L=MC2+NC2 ⚠ Not applicable to Both Ends Threaded Type. ⚠ Not applicable to Both Ends Tapped Type.

Pivot Pins / Keys for Precision Pivot Pins

Keyway

Both Ends Tapped

CLKK, CLKGH, PCLKG Identification Groove

2-C 0.5 or Less

M

N

L

Mx2

Nx2

D

25 / (1.6)

Type	Material	Hardness	Surface Treatment
CLKK	S45C (CLKK)	-	Black Oxide
CLKKH	S45C (CLKKH)	40-45HRC	Black Oxide
PCLKG	S45C Equivalent (PCLKG)	40-45HRC	Electroless Nickel Plating
PCLKGH	S45C Equivalent (PCLKGH)	40-45HRC	Electroless Nickel Plating
SCLKK	SUS304 Equivalent	-	Electroless Nickel Plating
SCLKG	SUS440C Equivalent	45 ~ 50HRC	Electroless Nickel Plating

D Tolerance (g6)	
3	-0.002 -0.008
4-6	-0.004 -0.012
8, 10	-0.005 -0.014
12-18	-0.006 -0.017
20-25	-0.007 -0.020

Part Number	D	L Selection	Unit Price
CLKK CLKKH (Hardened) SCLKK (Stainless Steel)	3	10 14 18 20	12 20
	4	10	10 18 20
	5	10	10 12 20
	6	15 16 20 30	24 25 30
	8	18 30 35 40 45 50	24 25 30 35 40 45 50
	10	30 35 40 45 50	20 24 30 35 40 45 50
	12	24 30 35 40 45 50	20 22 35 40 45 50
	13	25.0~200.0	25 30
	14	25.0~200.0	25 30
	15	25.0~200.0	25 30
	16	25.0~200.0	25 30
	17	25.0~200.0	25 30

⚠ SCLKGH may be discolored by hardening. ⚠ Part Number CLKGH has been changed to CLKGHH.

Ordering Example

Part Number - L

CLKK8 - 30

CLKG15 - 120.3

Ordering Example

Part Number - L

HPK2

Part Number	Unit Price
HPK	1-29 pcs 30-200
SHPK	1-29 pcs 30-200

⚠ For orders larger than indicated quantity, please check with WOS.

Part Number	Unit Price
WHPK	1-29 pcs 30-200
WSHPK	1-29 pcs 30-200

⚠ For orders larger than indicated quantity, please check with WOS.

Keys for Precision Pivot Pins

1-Hole Type

HPK (Stainless Steel)

D

L

M

N

25 / (1.6)

Part Number	Unit Price
HPK	1-29 pcs 30-200
SHPK	1-29 pcs 30-200

⚠ For orders larger than indicated quantity, please check with WOS.

2-Hole Type

WHPK (Stainless Steel)

D

L

M

N

25 / (1.6)

Part Number	Unit Price
WHPK	1-29 pcs 30-200
WSHPK	1-29 pcs 30-200

⚠ For orders larger than indicated quantity, please check with WOS.

1-915

1-916