

Locating Pins

With Air Vent

Locating Pins – With Air Vent

RoHS10

Type		Material	Hardness
Threaded	Tapped		
LPN	LPT	52100 Bearing Steel	Treated Hardness: 45~50 HRC min.
SLPN	SLPT	304 Stainless Steel or Equivalent	—
CLPN	CLPT	440C Stainless Steel or Equivalent	Treated Hardness: 50~55 HRC min.

Threaded

Tapped

Part Number				L		L ₁	d ₉₆		M (Coarse)	*Tightening Torque N·cm	ℓ ₁		ℓ ₂	r
Type		D Dimension Tolerance g6									Threaded	Tapped		
Threaded LPN SLPN CLPN	Tapped LPT SLPT CLPT	5	-0.004 -0.012	10 12 15 20 25 30	12	3	-0.002 -0.008	M3	147	7	6	1	1	
		6		10 12 15 20 25 30	15	4	-0.004 -0.012	M4	333	10	8			
		8	-0.005 -0.014	10 12 15 20 25 30		5		M5	676			1.5	1.5	
		10		15 20 25 30	20	6		M6	1156	15	10			
		12	-0.006 -0.017	15 20 25 30			2							2

① L=10, 12 are applicable to SLPN and CLPN only. ② ℓ₁=6 only when D = 6, L = 10. The pilot hole for tapping may go through. ③ L=15 not applicable to tapped part types.
* Tightening torque will be within Strength Class of 10.9 as indicated in the Technical Data **P.4016** (10.9). Not applicable when using locking materials or lock washers.

Part Number Example

Part Number

-

L

LPN5

-

15

LPT6

-

20

Application Example

LCB (P.1687)
LCBZ (P.1687)

Pallet Jig

LCH (P.1687)
LCHZ (P.1687)

Machine Base

Locating Pins

Pilot Pins

Locating Pins – Pilot Pins

RoHS10

B Fixed		B Configurable			Materials	Hardness
Standard	Tapped With Flathead Slot	Standard	Tapped			
			Without Flathead Slot	Flathead Slot		
HPST	HPSTM	HPSF	HPSFS	HPSFM	01 Tool Steel or Equivalent	Treated Hardness: 60~63 HRC min.
SHPST	SHPSTM	SHPSF	SHPSFS	SHPSFM	304 Stainless Steel or Equivalent	—
CHPST	CHPSTM	CHPSF	CHPSFS	CHPSFM	440C Stainless Steel or Equivalent	Treated Hardness: 50~55 HRC min.

Standard

Tapped, Flathead Slot

Tapped, without Flathead Slot

B Fixed, Standard

Type	Part Number D	D Tolerance	L Selection	P 0.01 mm Increment	B	E	ℓ	M (Coarse)
Standard HPST SHPST CHPST	1	+0.012 +0.012	12	1.50~3.00	1	3	3	—
	2		12	2.50~4.00		4		
	3		12 15	4.00~6.00				
	4		12 15	5.00~7.00	2	5		M3
	5		12 15	6.00~8.00				
	6		12 15	7.00~9.00				
	8		15 18	9.00~13.00	3	6		M4
	10		15 18	11.00~15.00				M5

B Fixed, Tapped

Type	Part Number D	D Tolerance	L Selection	P 0.01 mm Increment	B	E	ℓ	M (Coarse)	*Tightening Torque N·cm
Tapped Flathead Slot HPSTM SHPSTM CHPSTM	5	+0.012 +0.007	12 15	6.00~8.00	2	5	3	M3	147
	6		12 15	7.00~9.00				M4	333
	8		15 18	9.00~13.00	3	6		M5	676
	10		15 18	11.00~15.00					

B Configurable, Standard

Type	Part Number D	D Tolerance	L Selection	P 0.01 mm Increment	B 0.01 mm Increment	E	ℓ
HPSF SHPSF CHPSF	1	+0.012 +0.007	3 4 5 6 8 10 12	1.50~3.00	1.00~5.00	3	1
	2		4 5 6 8 10 12	2.50~4.00	1.00~10.00	4	
	3		5 6 8 10 12 15	4.00~6.00	1.00~10.00	5	
	4		5 6 8 10 12 15	5.00~7.00	1.00~10.00	6	
	5		5 6 8 10 12 15	6.00~8.00	1.00~10.00		
	6		6 8 10 12 15	7.00~10.00	1.00~12.00		
	8		8 10 12 15	9.00~13.00	1.00~15.00		
	10		10 12 15 18	11.00~15.00	1.00~20.00		

B Configurable, Tapped

Type	Part Number D	D Tolerance g6	L Selection	P 0.01 mm Increment	B 0.01 mm Increment	E	M (Coarse)
Without Flathead Slot HPSFS SHPSFS CHPSFS	5	-0.004	6 8 10 12 15	6.00~8.00	1.00~10.00	5	M3
	6	-0.012	6 8 10 12 15	7.00~10.00	1.00~12.00		
	8	-0.005	8 10 12 15 18	9.00~13.00	1.00~15.00	6	M4
	10	-0.014	10 12 15 18	11.00~15.00	1.00~20.00		M5

* Tightening torque will be within Strength Class of 10.9 as indicated in the Technical Data **P.4016** (10.9). Not applicable when using locking materials or lock washers.

Part Number Example

Part Number

-

L

-

P

-

B

HPST5

-

15

-

P7.20

HPSF4

-

10

-

P5.05

-

B1.20

HPSTM5

-

15

-

P7.20

HPSFS6

-

10

-

P8.05

-

B1.20

Part Number Alterations

Part Number

-

L

-

P

-

(BC)

HPST5

-

15

-

P7.20

-

BC3.5

Alteration	Code	Spec.	
	BC	BC=0.1 mm Increment 1≤BC≤BCmax Ordering Code: BC3.5 ① Applicable to B Fixed Type only.	D
			BCmax
			1, 2 3.0
			3 4.0
			4, 5 5.0
			6 6.0
			8, 10 7.0