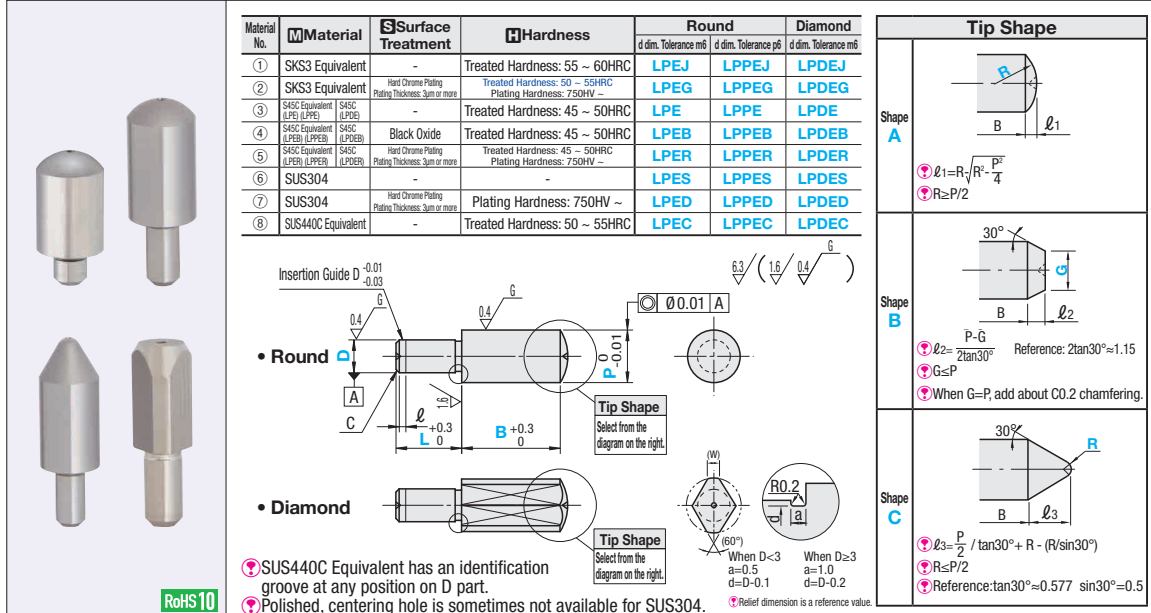


Locating Pins - Tip Shape Selectable

Press Fit

Features: The tip shape is selectable from three types. Highly customizable with each dimension configurable. Press Fit.



Part Number	Type	Tip Shape	D	D dim. Tolerance m6	D dim. Tolerance p6	P	B	R	G	L	C	ℓ	(W)
	(Round) m6	(Round) p6	(Diamond) m6										
LPEJ	LPPEJ	LPDEJ	2	+0.008	+0.012	2.50-4.00	2.0-25.0(10.0)			2-6	0.5	0	1.2
LPEG	LPPEG	LPDEG	3	+0.002	+0.006	3.50-6.00	2.0-25.0(10.0)			3-6			1.5
LPE	LPPE	LPDE	4			4.50-9.00	2.0-25.0(10.0)			4-8			1.8
LPB	LPPEB	LPDEB	5	+0.012	+0.020	5.50-10.00	2.0-30.0(10.0)			5-10	1		2.2
LPER	LPPEP	LPDEP	6	+0.004	+0.012	6.50-12.00	2.0-40.0(12.0)			6-12		1	3
LPES	LPPEP	LPDES	8	+0.015	+0.024	9.00-15.00	2.0-40.0(15.0)			8-16	1.5		3.5
LPED	LPPEP	LPDED	10	+0.006	+0.015	11.00-20.00	3.0-50.0(20.0)			10-20	2		4
LPCE	LPPEC	LPDEC	12	+0.018	+0.029	13.00-20.00	3.0-50.0(20.0)			12-24	2		5
			16	+0.007	+0.018	17.00-25.00	5.0-50.0(20.0)			16-32			7
			20	+0.021	+0.035	21.00-30.00	5.0-50.0(20.0)			20-40	3	2	9

Ordering Example: **P** - **B** - **R** - **G** - **L**
 Example: LPEA5 - P10.00 - B12.0 - R6 - G12 - L10
 LPPEJB10 - P15.00 - B27.0 - G12 - L10

D	Round Shape Unit Price								Diamond Shape Unit Price							
	① SKS3 Hardened	② Hard SKS3	③ S45C	④ S45C Black Oxide	⑤ Hard S45C	⑥ SUS304	⑦ Hard SUS304	⑧ SUS440C	① SKS3 Hardened	② Hard SKS3	③ S45C	④ S45C Black Oxide	⑤ Hard S45C	⑥ SUS304	⑦ Hard SUS304	⑧ SUS440C
2																
3																
4																
5																
6																
8																
10																
12																
16																
20																

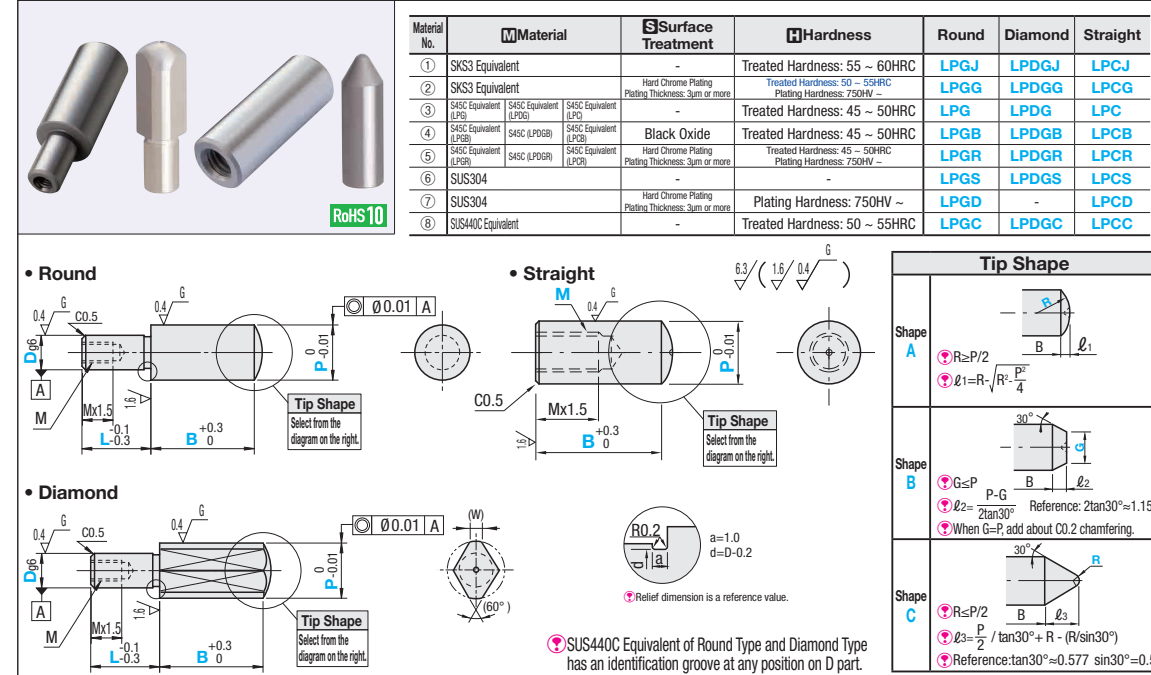
Alterations Example: **P** - **B** - **R** - **G** - **L** - (SC, LAC, LTE)
 Example: LPEA5 - P10.0 - B12.0 - R6 - G12 - L10 - LTE

Alterations	Wrench Flats	Wrench Hole (Ø3.5)	Wrench Hole (Ø2.5)
	Code	SC	LAC
Spec.	SC=1mm Increment When B≤11, adds wrench flats on the tip. P-3≤SC≤P-1, SC≥D	Adds a Ø3.5 hole. Applicable when B≥10 and P≥8.	Adds a Ø2.5 hole. Applicable when B≥8 and 7≤P≤15.

Locating Pins - Tip Shape Selectable

Tapped (Large Head / Straight)

Features: The tip shape is selectable from three types. To be mounted from back using bolts. Improved maintainability compared to the press fit type.



Part Number	Type	Tip Shape	D	D dim. Tolerance m6	D dim. Tolerance p6	P	B	R	G	L	M	* Tightening Torque Ncm	(W)
	(Round) LPGJ	(Diamond) LPDGJ	6	-0.004	-0.012	6.50-12.00	2.0-40.0(12.0)			6-12	M3	147	3
	LPGG	LPDGG	8	-0.005	-0.014	9.00-15.00	2.0-40.0(15.0)			8-16	M4	333	3.5
	LPB	LPDB	10	-0.006	-0.017	11.00-20.00	3.0-50.0(20.0)			10(12)-20	M5	676	4
	LPD	LPDD	12	-0.006	-0.017	13.00-20.00	3.0-50.0(20.0)			12-24	M4	333	4
	LPGB	LPDGB	12	-0.006	-0.017	13.00-20.00	3.0-50.0(20.0)			12-24	M5	676	5
	LPGR	LPDGR	16	-0.006	-0.017	17.00-25.00	5.0-50.0(20.0)			16-32	M8	2803	7
	LPGS	LPDGS	20	-0.007	-0.020	21.00-35.00	5.0-50.0(20.0)			20-40	M8	2803	9
	LPGD	LPDGD	20	-0.007	-0.020	21.00-35.00	5.0-50.0(20.0)			12(18)-30	M6	1156	7
	LPGC	LPDGC	20	-0.007	-0.020	21.00-35.00	5.0-50.0(20.0)			20-40	M8	2803	9

Pins of D dimension with T have one size smaller thread diameter and larger wall thickness. (Actual D dimension is the number without "T")
 B dimensions in () and L dimensions in () are for Diamond Shape. () Note the strength of under-head part. **P.1566** () Please confirm pilot hole depth on **P.1566**. Holes may go through.
 * Tightening torque (reference) will be within Strength Class of Tightening Torque on Technical Data **P.2297** (10.9). Not applicable when using locking materials or lock washers.

D	Round Shape Unit Price								Diamond Shape Unit Price							
	① SKS3 Hardened	② Hard SKS3	③ S45C	④ S45C Black Oxide	⑤ Hard S45C	⑥ SUS304	⑦ Hard SUS304	⑧ SUS440C	① SKS3 Hardened	② Hard SKS3	③ S45C	④ S45C Black Oxide	⑤ Hard S45C	⑥ SUS304	⑦ Hard SUS304	⑧ SUS440C
6																
8T																
10																
10T																
12																
12T																
16																
16T																
20																
20T																

Part Number	Type	Tip Shape	M	P	B	R	G	Unit Price								
								① SKS3 Hardened	② Hard SKS3	③ S45C	④ S45C Black Oxide	⑤ Hard S45C	⑥ SUS304	⑦ Hard SUS304	⑧ SUS440C	
	LPCJ	A	3	6.0-10.0	10.0-25.0			LPCJ	LPDGJ	LPCJ	LPDGC	LPCJ	LPDGC	LPCJ	LPDGC	LPCC
	LPCG	B	4	7.0-12.0	11.0-25.0											
	LPC	C	5	8.0-16.0	13.0-30.0											
	LPCB		6	9.0-20.0	15.0-40.0											
	LPCR		8	11.0-20.0	19.0-50.0											
	LPCS		10	14.0-20.0	23.0-50.0											
	LPCD		16	18.0-25.0	28.0-60.0											
	LPCC		20	26.0-30.0	44.0-60.0											

Ordering Example: **P** - **B** - **R** - **G** - **L**
 Example: LPGA6 - P10.0 - B25.0 - R6 - G13 - L16
 LPGB10 - P16.0 - B50.0 - R6 - G13 - L16
 LPGC6 - P10.0 - B25.0 - R6 - G13 - L16

Alterations	Wrench Flats	Wrench Hole (Ø3.5)	Wrench Hole (Ø2.5)
	Code	SC	LAC
Spec.	SC=1mm Increment For Round Type: P-3≤SC≤P-1, SC≥D For Straight: M-3≤SC≤P-1 When B≤11, adds wrench flats on the tip.	Adds a Ø3.5 hole. Applicable when B≥10 and P≥8.	Adds a Ø2.5 hole. Applicable when B≥8 and 7≤P≤15.