

Support Pins

Stepped

Support Pins

Stepped, Configurable

Spec.Change
Printed in Purple

■Features: Locating Pins with the Broad Specifiable Range of Height. Height adjustment and Round/Diamond locating in the horizontal direction are possible.

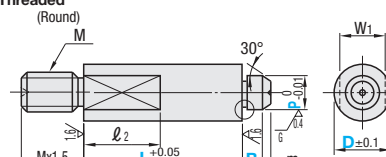


Material	Surface Treatment	Hardness	Round			Diamond		
			Threaded	Tapped	Pilot	Threaded	Tapped	Pilot
① EN 1.1191 Equiv.	Black Oxide	-	SHPCB	SHPAR	SHPBB	SDPCB	SDPAR	-
② EN 1.1191 Equiv.	Hard Chrome Plating	Plating Hardness: 750HV ~	SHPCR	SHPAR	SHPBR	-	SDPAR	SDPBR
③ EN 1.1191 Equiv.	Black Oxide	Treated Hardness: 45 ~ 50HRC	SHPCB	SHPAHB	SHPBHB	SDPCB	-	SDPBHB
④ EN 1.1191 Equiv.	Hard Chrome Plating	Treated Hardness: 45 ~ 50HRC	-	SHPAHR	SHPBHR	-	-	SDPBHR
⑤ EN 1.4301 Equiv.	-	-	SHPCSU	SHPASU	SHPBSU	SDPCSU	SDPASU	SDPBSU
⑥ EN 1.4037 Equiv.	-	Treated Hardness: 50 ~ 55HRC	SHPC	SHPA	SHPB	SDPC	SDPA	SDPB

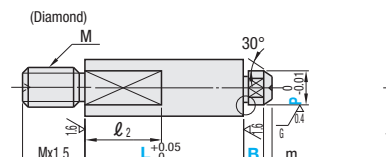
⑥ EN 1.4301 Equiv. may not be polished and may have no centering hole.

• Threaded

(Round)

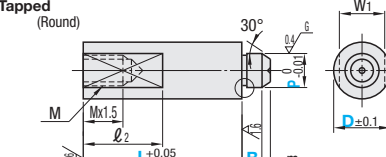


(Diamond)

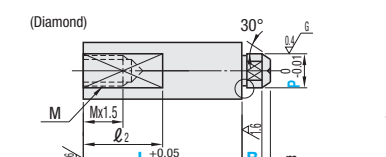


• Tapped

(Round)

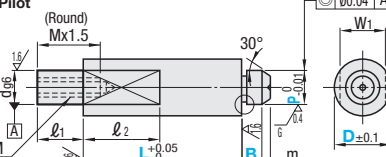


(Diamond)

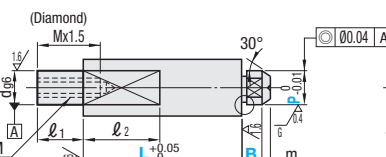


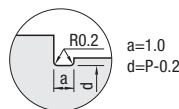
• Pilot

(Round)



(Diamond)





Relief dimension is a reference value.

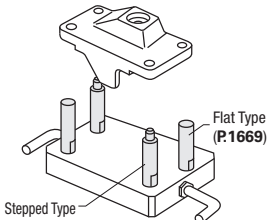
Part Number		D	L	P	B	m	d	M	Tightening Torque	W1	W	W2
Type			0.01mm Increment	0.01mm Increment	Selection			(Coarse)	N·cm			
Threaded <Round> SHPCB SHPCR SHPCB SHPCSU SHPC	Tapped <Round> SHPAR SHPAR SHPAR SHPAR SHPAR	Pilot <Round> SHPBB SHPBR SHPBHB SHPBHR SHPBSU SHPB	6	10.00~50.00	3.00~4.00	1	-	M3	98	5	1.0	8
<Diamond> SDPCB SDPCB SDPCSU SDPC	<Diamond> SDPAR SDPAR SDPASU SDPAR	<Diamond> SDPBR SDPBR SDPBHR SDPBHR SDPBSU SDPB	8	10.00~50.00	3.00~6.00	2	6	M5	461	6	1.5	10
<Diamond> SDPCB SDPCB SDPCSU SDPC	<Diamond> SDPAR SDPAR SDPASU SDPAR	<Diamond> SDPBR SDPBR SDPBHR SDPBHR SDPBSU SDPB	10	10.00~50.00	3.00~6.00	3	12	M8	1911	9	2.5	20
<Diamond> SDPCB SDPCB SDPCSU SDPC	<Diamond> SDPAR SDPAR SDPASU SDPAR	<Diamond> SDPBR SDPBR SDPBHR SDPBHR SDPBSU SDPB	12	10.00~50.00	3.00~6.00	4	16	M10	3783	10	2.0	25

⑥ Pilot Type is not available for D6, D8. ⑥ Note the strength of undercut part for Internal Thread and Pilot. P1566

* The tightening torque (ref. value) for hardened products is strength class 8.8. (See technical data on P.2297.) Not applicable when using locking materials or lock washers.

Ordering Example	Part Number	-	L	-	P	-	B
	SHPAR10	-	L20.01	-	P4.05	-	B5
	SDPCSU20	-	L50.00	-	P8.00	-	B3

Example



Round Shape

D	Unit Price Threaded						Unit Price Internal Thread						Unit Price Pilot					
	①	②	③	④	⑤	⑥	①	②	③	④	⑤	⑥	①	②	③	④	⑤	⑥
6	SHPCB	SHPCR	SHPCB	SHPCR	SHPCSU	SHPC	SHPAR	SHPAR	SHPAR	SHPAR	SHPAR	SHPAR	SHPAR	SHPAR	SHPAR	SHPAR	SHPAR	SHPAR
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Diamond Shape

D	Unit Price Threaded						Unit Price Internal Thread						Unit Price Pilot					
	①	②	③	④	⑤	⑥	①	②	③	④	⑤	⑥	①	②	③	④	⑤	⑥
6	SDPCB	SDPCR	SDPCB	SDPCR	SDPCSU	SDPC	SDPAR	SDPAR	SDPAR	SDPAR	SDPAR	SDPAR	SDPAR	SDPAR	SDPAR	SDPAR	SDPAR	SDPAR
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

■Features: Each dimension of Stepped Support Pins is configurable.

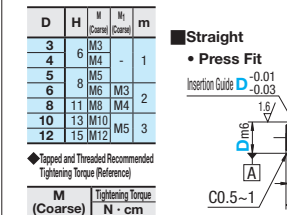


Material	Surface Treatment	Hardness	Type					
			Straight			Shouldered		
① EN 1.2510 Equiv.	-	Treated Hardness: 60 ~ 63HRC	Press Fit	Tapped	Threaded	Press Fit	Tapped	Threaded
② EN 1.2510 Equiv.	Hard Chrome Plating	Treated Hardness: 50 ~ 55HRC	SHFJ	SHFU	SHFN	-	SHXJ	SHXN
③ EN 1.4301 Equiv.	-	-	GSHFJ	GSHFU	GSHFN	-	-	-
④ EN 1.4037 Equiv.	-	Treated Hardness: 50 ~ 55HRC	SSHJ	SSHU	SSHFN	-	SSHXJ	SSHXN

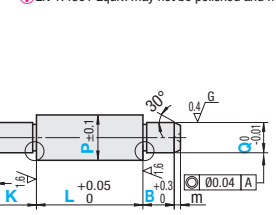
④ EN 1.4301 Equiv. may not be polished and may have no centering hole.

• Straight

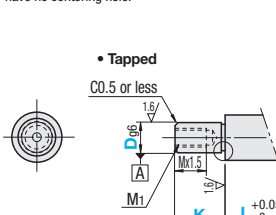
• Press Fit



• Tapped



• Threaded

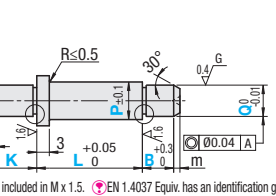


• Shouldered

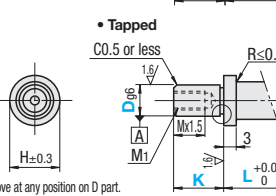
• Press Fit



• Tapped



• Threaded





Relief dimension is a reference value.

Press Fit

Part Number	Type	D	P		Q	K	L	B	Unit Price Straight				Unit Price Shouldered	
			0.1mm Increment	Shouldered					①	②	③	④	①	②
Straight Shouldered SHFJ GSHFJ SSHJ SSHJ SSHJ CSHXJ	Shouldered	3	3.5~6.0	3.0~5.0	2.00~5.00	3~6	10.00~60.00	2.0~5.0						
		4	4.5~7.0	3.0~5.0	2.00~6.00	4~8	10.00~60.00	2.0~10.0						
		5	5.5~8.0	3.0~7.0	2.00~7.00	5~10	10.00~60.00	2.0~10.0						
		6	6.5~10.0	5.0~7.0	4.00~9.00	6~12	10.00~80.00	2.0~12.0						
		8	9.0~13.0	5.0~8.0	4.00~12.00	8~16	10.00~80.00	2.0~15.0						
		10	11.0~15.0	6.0~11.0	5.00~14.00	10~20	10.00~100.00	2.0~20.0						
Straight Shouldered SHFJ GSHFJ SSHJ SSHJ SSHJ CSHXJ	Shouldered	12	13.0~16.0	6.0~13.0	5.00~15.00	12~24	10.00~100.00	2.0~20.0						

Tapped

Part Number	Type	D	P		Q	K	L	B	Unit Price Straight				Unit Price Shouldered	
			0.1mm Increment	Shouldered					①	②	③	④	①	②
Straight Shouldered SHFJ GSHFJ SSHJ SSHJ SSHJ CSHXJ	Shouldered	6	6.5~10.0	5.0~7.0	4.00~9.00	6~12	10.00~80.00	2.0~12.0						
		8	9.0~13.0	5.0~9.0	4.00~12.00	8~16	10.00~80.00	2.0~15.0						
		10	11.0~15.0	6.0~11.0	5.00~14.00	10~20	10.00~100.00	2.0~20.0						
		12	13.0~16.0	6.0~13.0	5.00~15.00	12~24	10.00~100.00	2.0~20.0						

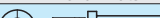
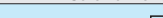
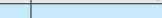
Threaded

Part Number	Type	D	P		Q	K	L	B	Unit Price Straight				Unit Price Shouldered		
			0.1mm Increment	Shouldered					①	②	③	④	①	②	③
Straight Shouldered SHFN SHXN GSHFN SHXN SSHFN SHXN CSHFN CSHXN	Shouldered	3	3.5~6.0	3.0~5.0	2.00~5.00	0~6	10.00~60.00	2.0~5.0							
		4	4.5~7.0	3.0~5.0	2.00~6.00	0~8	10.00~60.00	2.0~10.0							
		5	5.5~8.0	3.0~7.0	2.00~7.00	0~10	10.00~60.00	2.0~10.0							
		6	6.5~10.0	5.0~7.0	4.00~9.00	0~12	10.00~80.00	2.0~12.0							
		8	9.0~13.0	5.0~9.0	4.00~12.00	0~16	10.00~80.00	2.0~15.0							
		10	11.0~15.0	6.0~11.0	5.00~14.00	0~20	10.00~100.00	2.0~20.0							
Straight Shouldered SHFN SHXN GSHFN SHXN SSHFN SHXN CSHFN CSHXN	Shouldered	12	13.0~16.0	6.0~13.0	5.00~15.00	0~24	10.00~100.00	2.0~20.0							

⑥ The dispersion of L dimension should be within 0.02 for same orders.

Ordering Example	Part Number	-	P	-	Q	-	K	-	L	-	B
	SHFJ5	-	P6.0	-	Q4.50	-	K5	-	L30.55	-	B3.2

Alterations	Part Number	-	P	-	Q	-	K	-	L	-	B	(SC, HC, DRC, NNC)
	SHXU10	-	P8.5	-	Q5.00	-	K10	-	L80.00	-	B6.7	HC12

Alterations	Wrench Flats	Wrench Flats	Screwdriver Slot	Relief
				
Code	SC	HC	DRC	NNC
Spec.	SC=1mm Increment SC>D Ordering Code SC8 🌀 For Tapped, SC=M1+3 🌀 Applicable to Straight only.	HC=1mm Increment HC>P HC>D Ordering Code HC10 🌀 Applicable to Shouldered only.	Width 0.8mm, Depth 1mm Ordering Code DRC 🌀 Applicable to Threaded only.	Adds a relief at the thread end. Ordering Code NNC 🌀 Applicable when K=0. 🌀 Applicable to Threaded only.