

Height Adjusting Pins - Hex Threaded

■ Features: Locating Pins suitable for height adjustment because High Precision and Medium Accuracy can be selected for the tolerance in the height direction. Threaded and Height Configurable.

■ High Accuracy RoHS 10

Material	Surface Treatment	Hardness	Type		
			B Fixed F Fixed	B Fixed F Configurable	B Selectable F Fixed
SCM435	-	Treated Hardness: 46 ~ 50HRC	JPra	JPRAM	JPRFA
	Black Oxide	Treated Hardness: 46 ~ 50HRC	BJPra	BJPRAM	BJPRFA
	Hard Chrome Plating	Treated Hardness: 46 ~ 50HRC Plating Hardness: 750HV ~	HJPra	HJPRAM	HJPRFA
SUS304	-	-	SJPra	SJPRAM	SJPRFA
SUS400 or 13Cr stainless	-	Treated Hardness: 50 ~ 55HRC	CJPra	CJPRAM	CJPRFA

ⓈSUS304 may not be polished.

* Under-head of "B Fixed and F Configurable Type" is R0.5 or less. Take note of chamfering on the tapped hole.

Part Number	Type	M (Coarse)	* Tightening Torque N-cm	L 0.01mm Increment	B		F 1mm Increment
					Standard	Selection	
B, F Fixed B Fixed and F Configurable B Selectable and F Fixed	JPra	3	98	2.00-10.00	6	5	3-96 (MxF=Mx3)
	JPRAM	4	225		7	6	
	JPRFA	5	461		8	7	
	BJPra	6	784	5.00-30.00	10	8	
	BJPRAM	8	1911		13	10	
	BJPRFA	10	3783		17	12	
	HJPra	12	6605	10.00-50.00	19	14	
	HJPRAM	12	6605		19	14	
	HJPRFA	12	6605		19	14	

*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.

M (Coarse)	Unit Price														
	B, F Fixed		B Fixed and F Configurable				B Selectable and F Fixed								
3	JPra	BJPra	HJPra	SJPra	CJPra	JPRAM	BJPRAM	HJPRAM	SJPRAM	CJPRAM	JPRFA	BJPRFA	HJPRFA	SJPRFA	CJPRFA
4															
5															
6															
8															
10															
12															

Ordering Example

(Hex, B and F Fixed) JPra4 - L10.00 - B - F12

(Hex, B Fixed and F Configurable) JPRAM8 - L15.00 - B - F12

(Hex, B Selectable and F Fixed) JPRFA6 - L20.00 - B - F12

Alterations

Code	Radius to End Face	Seating Sensor Holes
CRC	Chamfering of workpiece receiving-surface is changed to R1. Hex is R size in the right table. Ordering Code: CRC Ⓢ Applicable when L>15. Ⓢ Hex is applicable to B>10.	Machines seating sensor holes on the work-receiving surface. Hole diameters are shown in the table below. Ordering Code: EAT Ⓢ Applicable when D<=6. Ⓢ Application conditions vary depending on F and L dimensions.

B	R
10	2
12, 13	2.5
14	3
17, 19	4

M	Narrow Hole Dia. d1	Through Hole Dia. d2	Applicable Overall Length Conditions
6	1.0	1.5	F+L<=20
8	1.0	2.5	F+L<=30
10	1.5	3.5	F+L<=40
12	1.5	4.5	F+L<=50

Alterations

Part Number - L - B - F - (CRC, EAT)

JPra10 - L20.50 - B - CRC

HJPRAM10 - L15.00 - B - EAT

■ Medium Accuracy

Material	Surface Treatment	Hardness	Type
①S45C Equivalent	Black Oxide	-	SRTAB
②S45C Equivalent	Hard Chrome Plating	Plating Hardness: 750HV ~	SRTAR
③S45C Equivalent	Black Oxide	Treated Hardness: 45 ~ 50HRC	SRTAHB
④S45C Equivalent	Hard Chrome Plating	Treated Hardness: 45 ~ 50HRC Plating Hardness: 750HV ~	SRTAHR
⑤SUS304	-	-	SRTASU
⑥SUS400 or 13Cr stainless	-	Treated Hardness: 50 ~ 55HRC	SRTAC

ⓈSUS304 may not be polished and may have no centering hole.

Part Number	Type	B	L 0.01mm Increment	G 1mm Increment Threaded only	(C)	d	M (Coarse)	* Tightening Torque N-cm	Unit Price Threaded								
									①	②	③	④	⑤	⑥			
SRTAB SRTAR SRTAHB SRTAHR SRTASU SRTAC	6	6	10.00-50.00	0 or 2<=G<=d x 2	6.9	4	M4	225									
	7	8.1															
	8	9.2															
	10	11.5	15.00-50.00														
	12	13.9															
	13	15															
	14	16.2	20.0 -80.00														
	17	19.6															
	19	21.9															
	24	27.7															

ⓈSUS440C or 13Cr stainless is B<=8.
*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.
Ⓢ For full thread, specify a G dimension of 0 and NNC alteration.

Ordering Example

Part Number - L - G

Type B - L20.00 - G6

Alterations

Code	Screwdriver Slot	Relief
DRC	Machines a screwdriver slot of width 0.8mm and depth 1mm.	Adds a relief at the thread end. Ⓢ Applicable when G=0.

Height Adjusting Pins - Hex Tapped

■ Features: Locating Pins suitable for height adjustment because High Precision and Medium Accuracy can be selected for the tolerance in the height direction. Threaded and Height Configurable.

■ High Accuracy RoHS 10

Material	Surface Treatment	Hardness	Type
SCM435	-	Treated Hardness: 46 ~ 50HRC	JPRM
SCM435	Black Oxide	Treated Hardness: 46 ~ 50HRC	BJPRM
SCM435	Hard Chrome Plating	Treated Hardness: 46 ~ 50HRC Plating Hardness: 750HV ~	HJPRM

Part Number	Type	B	L 0.01mm Increment	M (Coarse)	* Tightening Torque N-cm	ℓ	Unit Price		
							JPRM	BJPRM	HJPRM
JPRM BJPRM HJPRM	8	8	16.00-50.00	M5	461	8			
	10	10	16.00-50.00						
	13	13	22.00-50.00						
	17	17	22.00-50.00	M8	1911	12			
	19	19	22.00-50.00						

*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

JPRM8 - L20.00

■ Medium Accuracy

Material	Surface Treatment	Hardness	Type
①S45C Equivalent	Black Oxide	-	SRTBB
②S45C Equivalent	Hard Chrome Plating	Plating Hardness: 750HV ~	SRTBR
③S45C Equivalent	Black Oxide	Treated Hardness: 45 ~ 50HRC	SRTBHB
④S45C Equivalent	Hard Chrome Plating	Treated Hardness: 45 ~ 50HRC Plating Hardness: 750HV ~	SRTBHR
⑤SUS304	-	-	SRTBSU
⑥SUS440C or 13Cr stainless	-	Treated Hardness: 50 ~ 55HRC	SRTBC

Ⓢ When G<Pitch x 2, the incomplete threaded portion (Pitch x 2) is included in M x 1.5. For Pitch Dia. P.2292

Part Number	Type	B	L 0.01mm Increment	G 1mm Increment Threaded only	(C)	d	M (Coarse)	* Tightening Torque N-cm	Unit Price Tapped							
									①	②	③	④	⑤	⑥		
SRTBB SRTBR SRTBHB SRTBHR SRTBSU SRTBC	6	6	10.00-50.00	0 or 2<=G<=d x 2	6.9	4	M3	98								
	7	8.1														
	8	9.2														
	10	11.5	15.00-50.00													
	12	13.9														
	13	15														
	14	16.2	20.0 -80.00													
	17	19.6														
	19	21.9														
	24	27.7														

ⓈSUS440C or 13Cr stainless is B<=8.
*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

Type B - L50.00