

# Slot Pins for Inspection Components

## Straight Long, Stepped Straight Long

Features: Suitable when inspecting workpiece with depth. For compatible bushings, see P.1841~1846.

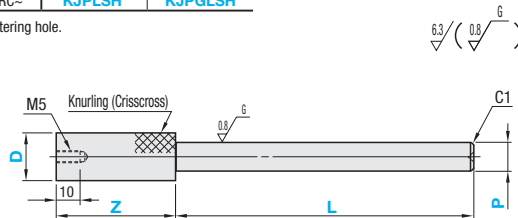
### Straight Long

Material	Hardness	Type	
		P <sub>0.02</sub>	P <sub>g6</sub>
S45C Equivalent	-	KJPLS	KJPGLS
S45C Equivalent	45HRC~	KJPLSH	KJPGLSH

The tip may have a centering hole.

P	g6
4.00~6.00	-0.004 -0.012
6.01~10.00	-0.005 -0.014
10.01~18.00	-0.006 -0.017
18.01~29.00	-0.007 -0.020

Handles and pins may be joined with an adhesive. Heat or strong force may cause separation.



RoHS

Part Number		0.01mm Increment	1mm Increment	P <sub>0.02</sub> Unit Price				P <sub>g6</sub> Unit Price			
Type	D	P	L	KJPLS		KJPLSH		KJPGLS		KJPGLSH	
P <sub>0.02</sub>	P <sub>g6</sub>			L50-100	L101-150	L50-100	L101-150	L50-100	L101-150	L50-100	L101-150
(S45C) KJPLS	(S45C) KJPGLS	12	4.00~10.00								
		16	6.00~14.00								
(S45C Hardened) KJPLSH	(S45C Hardened) KJPGLSH	20	10.00~18.00								
		25	15.00~23.00								

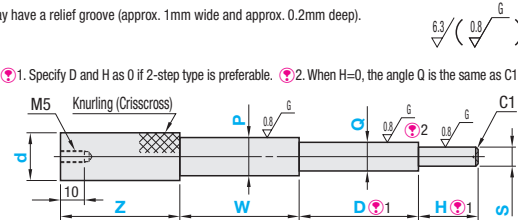
### Stepped Straight Long (2 Steps, 3 Steps)

Material	Hardness	Type	
		P,Q,S <sub>0.02</sub>	P,Q,S <sub>g6</sub>
S45C Equivalent	-	KJPLDS	KJPGLDS
S45C Equivalent	45HRC~	KJPLDSH	KJPGLDSH

The joint of each step may have a relief groove (approx. 1mm wide and approx. 0.2mm deep).

S	g6
3.00	-0.002 -0.008
3.01~6.00	-0.004 -0.012
6.01~10.00	-0.005 -0.014
10.01~18.00	-0.006 -0.017
18.01~21.00	-0.007 -0.020

Handles and pins may be joined with an adhesive. Heat or strong force may cause separation.



RoHS

Part Number		1mm Increment		0.01mm Increment (P≥Q≥S)		P,Q,S <sub>0.02</sub> Unit Price				P,Q,S <sub>g6</sub> Unit Price			
Type	D	W,D	H	P,Q	S	KJPLDS		KJPLDSH		KJPGLDS		KJPGLDSH	
P,Q,S <sub>0.02</sub>	P,Q,S <sub>g6</sub>					W+D+H	W+D+H	W+D+H	W+D+H	W+D+H	W+D+H	W+D+H	W+D+H
(S45C) KJPLDS	(S45C) KJPGLDS	12	0	0	4.00-10.00	3.00-9.00							
		16	3~100	3~25	6.00-14.00	4.00-13.00							
(S45C Hardened) KJPLDSH	(S45C Hardened) KJPGLDSH	20	(W≤Px5) (D≤Qx4)	(H≤Sx3)	10.00-18.00	6.00-17.00							
		25	(W+D+H≤150)		15.00-23.00	8.00-21.00							

Specify P=0 for W=0, Q=0 for D=0, S=0 for H=0.

Ordering Example: Part Number (TYPE, D) - P - L - Z

Ordering Example: Part Number (TYPE, D) - W - D - H - P - Q - S - Z

Alterations: Part Number - P - L - Z - (CH, KH, etc.)

Alterations: Part Number - W - D - H - P - Q - S - Z - (CH, KH, etc.)

Alterations	Code	Spec.	Alterations	Code	Spec.
Engraving of S Dimension	KHS	Machines flats on knurled head and engraves S dimension. Applicable to Stepped Straight Long Type only. Engraved on the reverse side when KH and KHQ are combined.	Engraving of Q Dimension	KHQ	Machines flats on knurled head and engraves Q dimension. Applicable to Stepped Straight Long Type only. Engraved on the reverse side when KH and KHS are combined.
Engraving of P Dimension	KH	Machines flats on knurled head and engraves P dimension (with the character orientation arbitrary). Engraved on the reverse side when combined with KHQ and KHS.	Chain Alterations	CH	Loss-proof chain (length 600mm) is attached to gauge body. For chains only, see P.1862.
			Additional Surface Treatment (Black Oxide)	STC	Adds black oxide surface treatment.

Caution when making alterations to engravings (KHS, KH, KHQ)

If the pin and the knurled part are joined with an adhesive, 10mm of the tip is not machined flat because the tip is thin.

# Slot Pins for Inspection Components

## Threaded Straight Long, Threaded Pins

Features: Suitable when clamping workpiece with depth. For compatible bushings, see P.1847 and P.1852.

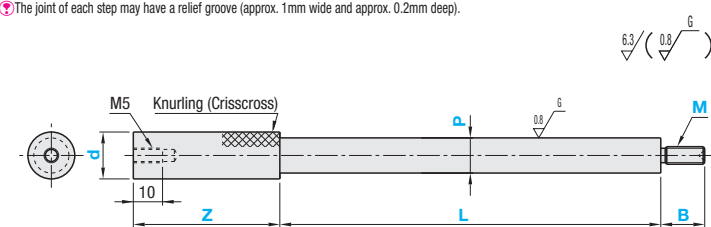
### Threaded Straight Long

Material	Hardness	Type	
		P <sub>0.02</sub>	P <sub>g6</sub>
S45C Equivalent	-	KJPLM	KJPGLM

The joint of each step may have a relief groove (approx. 1mm wide and approx. 0.2mm deep).

P	g6
4.00~6.00	-0.004 -0.012
6.01~10.00	-0.005 -0.014
10.01~18.00	-0.006 -0.017
18.01~23.00	-0.007 -0.020

Handles and pins may be joined with an adhesive. Heat or strong force may cause separation.



RoHS

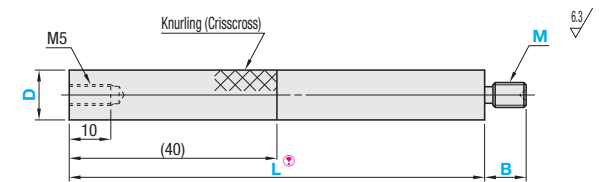
Part Number		P	1mm Increment				Unit Price			
Type	d	0.01mm Increment	M (P≥M) Selection		L	B	KJPLM		KJPGLM	
P <sub>0.02</sub>	P <sub>g6</sub>						Min. L	L101	Min. L	L101
KJPLM	KJPGLM	12	4.00~10.00	4 5 6 8	35~145	5~25				
		16	6.00~14.00	4 5 6 8 10 S10 12	(When P<12, L+B≤100)	(M≤B≤Mx3)				
		20	10.00~18.00		(When P≥12, L+B≤150)					
		25	15.00~23.00	5 6 8 10 S10 12						

S10 is fine thread (pitch 1.25).

Features: Suitable when clamping workpiece with threaded part.

### Threaded Pins

Material	Type
S45C Equivalent	KJPND
SUS304	KJPNDS



When L is less than 40, entire length is knurled.

RoHS

Part Number		L	M	B	Unit Price					
Type	D	10mm Increment	Selection	1mm Increment	KJPND			KJPNDS		
					L30-50	L60-100	L110-150	L30-50	L60-100	L110-150
(S45C) KJPND	10									
	12	30~150	4 5 6 8 10 S10	5~15						
(SUS304) KJPNDS	16									

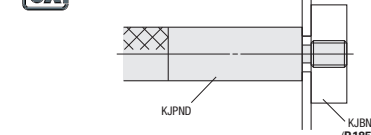
S10 is fine thread (pitch 1.25).



Ordering Example: Part Number (TYPE, d) - P - M - L - B - Z



Alterations: Part Number - P - M - L - B - Z - (CH, KH, etc.)



Alterations	Code	Spec.	Alterations	Code	Spec.
Engraving of S Dimension	KHS	Machines flats on knurled head and engraves S dimension. Engraved on the reverse side when combined with KH. Applicable to Threaded Straight Long Type only.	Chain Alterations	CH	Loss-proof chain (length 600mm) is attached to gauge body. For chains only, see P.1862. Applicable to Threaded Straight Long Type only.
Engraving of P Dimension	KH	Machines flats on knurled head and engraves P dimension (with the character orientation arbitrary). Engraved on the reverse side when combined with KHS. Applicable to Threaded Straight Long Type only.	Additional Surface Treatment (Black Oxide)	STC	Adds black oxide surface treatment. Not applicable to SUS304.

Caution when making alterations to engraving (KHS, HF)

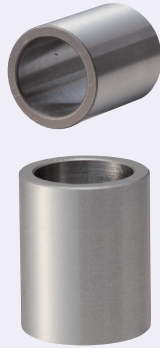
If the pin and the knurled part are joined with an adhesive, 10mm of the tip is not machined flat because the tip is thin.

# Bushings for Inspection Components

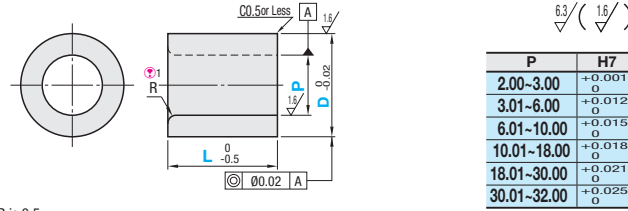
## Straight (Standard, Press Fit Type)

For compatible Pins, see P.1819-P.1820 and P.1840.

### Standard Type



Material	Hardness	Surface Treatment	Type			
			P, L Selectable		P, L Configurable	
			P <sup>+0.03</sup> / <sub>-0.01</sub>	PH7	P <sup>+0.03</sup> / <sub>-0.01</sub>	PH7
SKS93 Equivalent (Raw Material)	-	-	-	-	KJBNS	KJBHSN
SKS93 Equivalent	50-60HRC	-	KJBA	KJBHA	KJBS	KJBHS
SKS93 Equivalent	50-60HRC	Electroless Nickel Plating	-	-	KJBMS	KJBHSM
SUS304 <sup>②</sup>	-	-	-	-	KJBSS	KJBHSS
SUS440C Equivalent	45-50HRC	-	-	-	KJBSSC	KJBHSSC



①. When wall is 2mm or less ((D-P)/2≤2), R is 0.5.

### P, L Selectable

Part Number Type	D	P Selection	L Selection	R	Unit Price
(P <sup>+0.03</sup> ) KJBA	10	3	10	1.0	
		4	10 15	1.0	
		5	10 15	1.0	
		6	10 15	0.5	
		8	15	0.5	
		6	15	2.0	
	12	8	15 20	0.5	
		10	15	0.5	
		10	15 20	2.0	
	16	12	15 20	0.5	

Part Number Type	D	P Selection	L Selection	R	Unit Price
(PH7) KJBHA	10	4	10 15	1.0	
		5	15	1.0	
		6	15	0.5	
		6	15	2.0	
		8	15 20	0.5	
		8	20	2.0	
	12	10	15 20	2.0	
		10	15 20	2.0	
		13	20 25	0.5	

### P, L Configurable P Dimension Tolerance<sup>+0.03</sup>/<sub>-0.01</sub>

Part Number Type	D	P 0.01mm Increment	L 1mm Increment	R	Unit Price					
					KJBNS	KJBS	KJBMS	KJBSS	KJBSSC	
(SKS93 Equivalent Raw Material) KJBNS	8	2.00~ 6.00	5~40 When P<5 L≤Px4 When P≥5 L≤Px3	1.0						
	10	2.00~ 8.00		1.0						
(SKS93 Equivalent Hardened) KJBS	12	4.00~10.00		2.0						
	16	8.00~14.00		2.0						
(SKS93 Equivalent Hardened, Electroless Nickel Plating) KJBMS	20	10.00~18.00		2.0						
	25	15.00~23.00		2.0						
(SUS304) KJBSS	30	20.00~27.00		2.0						
	35	25.00~32.00		2.0						
(SUS440C Equivalent) KJBSSC				2.0						
				2.0						

### P, L Configurable P Dimension Tolerance H7

Part Number Type	D	P 0.01mm Increment	L 1mm Increment	R	Unit Price					
					KJBNSN	KJBHS	KJBHSM	KJBHSS	KJBHSSC	
(SKS93 Equivalent Raw Material) KJBNSN	8	2.00~ 6.00	5~40 When P<5 L≤Px4 When P≥5 L≤Px3	1.0						
	10	2.00~ 8.00		1.0						
(SKS93 Equivalent Hardened) KJBHS	12	4.00~10.00		2.0						
	16	8.00~14.00		2.0						
(SKS93 Equivalent Hardened, Electroless Nickel Plating) KJBHSM	20	10.00~18.00		2.0						
	25	15.00~23.00		2.0						
(SUS304) KJBHSS	30	20.00~27.00		2.0						
	35	25.00~32.00		2.0						
(SUS440C Equivalent) KJBHSSC				2.0						
				2.0						

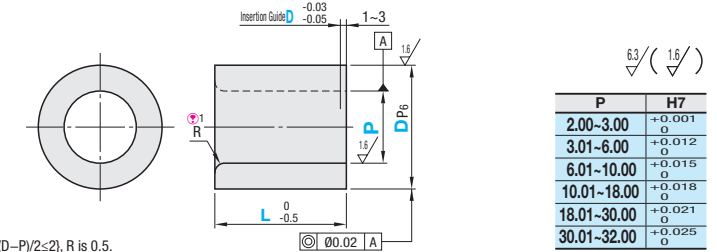
②. For SUS304, there must be a 2mm or greater wall thickness ((D-P)/2≥2). ③. D=30 and 35 are applicable to SKS93 (except electroless nickel plating) only.

For compatible Pins, see P.1819-P.1820 and P.1840.

### Press Fit Type



Material	Hardness	Surface Treatment	Type	
			P <sup>+0.03</sup> / <sub>-0.01</sub>	PH7
SKS93 Equivalent	50-60HRC	-	KJBPS	KJBPHS
SKS93 Equivalent	50-60HRC	Electroless Nickel Plating	KJBPSM	KJBPHSM
SUS304 <sup>②</sup>	-	-	-	KJBPHSS
SUS440C Equivalent	45-50HRC	-	KJBPSSC	KJBPHSSC



①. When wall is 2mm or less ((D-P)/2≤2), R is 0.5.

### P, L Configurable P Dimension Tolerance<sup>+0.03</sup>/<sub>-0.01</sub>

Part Number Type	D	P 0.01mm Increment	L 1mm Increment	R	Unit Price		
					KJBPS	KJBPSM	KJBPSSC
(SKS93 Equivalent Hardened) KJBPS	8	2.00~ 6.00	5~40 When P<5 L≤Px4 When P≥5 L≤Px3	1.0			
	10	2.00~ 8.00		1.0			
	12	4.00~10.00		2.0			
(SKS93 Equivalent Hardened, Electroless Nickel Plating) KJBPSM	16	8.00~14.00		2.0			
	20	10.00~18.00		2.0			
	25	15.00~23.00		2.0			
(SUS440C Equivalent) KJBPSSC	30	20.00~27.00		2.0		-	-
	35	25.00~32.00		2.0		-	-

### P, L Configurable P Dimension Tolerance H7

Part Number Type	D	P 0.01mm Increment	L 1mm Increment	R	Unit Price			
					KJBPHS	KJBPHSM	KJBPHSS	KJBPHSSC
(SKS93 Equivalent Hardened) KJBPHS	8	2.00~ 6.00	5~40 When P<5 L≤Px4 When P≥5 L≤Px3	1.0				
	10	2.00~ 8.00		1.0				
(SKS93 Equivalent Hardened, Electroless Nickel Plating) KJBPHSM	12	4.00~10.00		2.0				
	16	8.00~14.00		2.0				
(SUS304) KJBPHSS	20	10.00~18.00		2.0				
	25	15.00~23.00		2.0				
(SUS440C Equivalent) KJBPHSSC	30	20.00~27.00		2.0		-	-	-
	35	25.00~32.00		2.0		-	-	-

②. For SUS304, there must be a 2mm or greater wall thickness ((D-P)/2≥2).

Ordering Example	Part Number	D	P	L
	KJBA	10	P5	L15
	KJBNS	12	P6.53	L20

Alterations	Part Number	P	L	(FC, NC-etc.)
	KJBNS10	P3.00	L6	STC
	KJBNS12	P6.00	L20	CRN

④. Applicable to P, L Dimension Configurable Type only.

Alterations	Code	Spec.
Groove (for Adhesive Reservoir)	FC	Adds an adhesive reservoir groove. ④D≥P+3: Applicable only when a wall of 1.5mm or thicker is remaining. ④Applicable only when L≥10.
Groove (for Retaining)	NC	Adds groove for retaining. ④D≥P+3: Applicable only when a wall of 1.5mm or thicker is remaining. ④Applicable only when L≥10.
Radius R C Chamfered	RN	Adds C Chamfering (0.5 or less) to R.

Alterations	Code	Spec.
Radius R Square Corner	CRN	Replaces R with square corner. ④Edge may be burred ④Combination with alteration LKC is not available.
Additional Surface Treatment (Black Oxide)	STC	Adds black oxide surface treatment. ④Applicable only to material SKS93 (except electroless nickel plating).
L Dimension Tolerance	LKC	Changes L dimension tolerance to <sup>0</sup> / <sub>-0.05</sub> . ④Combination with alteration CRN is not available.
Flats Machining	HT	Adds a flat on bushing.

# Locating Blocks for Inspection Components

## Clip Detaching Blocks for Plastic Panels

■Features: This block facilitates removal and attachment of clips for plastic panels.

RoHS

**KJRSB (Round)**  
**KJRSBR (Square)**

**Hole Shape**  
Select from the diagram on the right.

**Hole Shape**

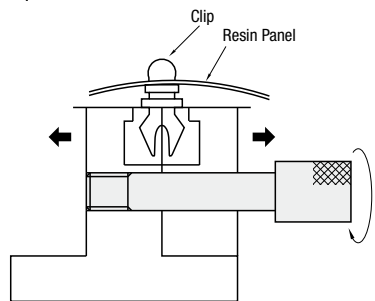
B (Round)	BR (Square)

Material: S45C

Part Number	Hole Shape	Round and Square Common		Square only		S	H	Unit Price	
		0.05mm Increment	0.05mm Increment	0.05mm Increment	0.05mm Increment			KJRSB	KJRSBR
<b>KJRS</b>	(Round) B (Square) BR	3.00~22.00	$P \geq W$ ( $W \geq 3.00$ )	$0.2 \leq R \leq W/2$	$0.5 \sim 5.00$	$S+37.5$			

Ordering Example: Part Number - P - W - R - S  
**KJRSB** - P10.0 - S2.00  
**KJRSBR** - P10.0 - W6.00 - R2.0 - S1.65

Example



Turning the knurled pin opens and closes the block.

# Height Adjusting Shim Plates / Height Adjusting Pins

## Square, Round

## Standard, Threaded

RoHS

■ Height Adjusting Shim Plates Square

Type	Hole Type	Blank Type	Material	Hardness
<b>KJTC</b>	<b>KJTCH</b>	<b>KJTCH</b>	SS400	-
<b>KJTCY</b>	-	-	S45C	40~45HRC

When T=2, only countersunk is available.

■ No Hole

- For 1 countersink hole
- For 2 countersink hole

■ Hole Type

■ Blank Type (Cut as required.)

Part Number		Number of Countersinks	T Selection	A	B	Unit Price		
Type	No.					T=2	3	5
(No Hardening) <b>KJTC</b>	10	1	1	10	10	-	-	-
	10-15			10	15	-	-	-
	10-20			10	20	-	-	-
	15			15	15	-	-	-
	15-20			15	20	-	-	-
	18			18	18	-	-	-
	20			20	20	-	-	-
	20S			20	20	-	-	-
	20-25			20	25	-	-	-
	20-30			20	30	-	-	-
(Hardening) <b>KJTCY</b>	25	2	5	20	40	-	-	-
	25			25	25	-	-	-
	25			25	25	-	-	-
	30			30	30	-	-	-

Part Number		A	T Selection	V Selection	Unit Price		
Type	A				T=2	3	5
(No Hardening) <b>KJTC</b>	25	2	2	6 8 10	-	-	
	30	3	3	12 14 16	-	-	
	35	5	5	18 20 22	-	-	
	35	5	5	18 20 22	-	-	

Part Number		A	T	Unit Price
Type	A			
(No Hardening) <b>KJTCB</b>	16	16	3	-
	19	19	3	-
	20	20	3	-

⚠️ Sizes without price indications are not available.

RoHS

■ Height Adjusting Shim Plates Round

Type	Material	Hardness
<b>KJTCC</b>	SS400	-
<b>KJTCCY</b>	S45C	40~45HRC

When T=2, only countersunk is available.

Part Number		T Selection	Unit Price	
Type	D		KJTCC	KJTCCY
<b>KJTCC</b> <b>KJTCCY</b>	10	2 3 5	-	-
	15		-	-
	20		-	-
	25		-	-
	30		-	-

RoHS

■ Height Adjusting Pins Standard **KJTJ**

Material: SS400 Equivalent

Part Number		T Selection	d	L	Unit Price
Type	D				
<b>KJTJ</b>	10	2 3 5	4	5	-
	12		5	8	-
	16		10	12	-
	18		10	12	-
	20		10	12	-

RoHS

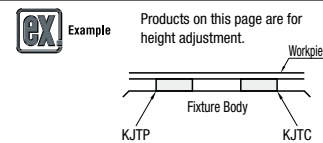
■ Height Adjusting Pins Threaded **KJTJM**

Material: SS400 Equivalent

M	L
5	4
6	5
8	6

Part Number		T	M Selection	W	Unit Price
Type	D				
<b>KJTJM</b>	10	3	5 6	8	-
	12		5 6	10	-
	16		6 8	14	-

Ordering Example: Part Number - T - V - M  
**KJTC10-2** - 3  
**KJTCH30** - 5 - V12  
**KJTCH19** - 3  
**KJTJM12** - 3 - M6



# Hinge / Slide Units for Fixtures / Bases

Horizontal, Vertical

**Features:** Units with vertically moving and sliding arms. Machine the arm section to use for workpiece shape measurements. The rail and arm are pair engraved. Please use a rail and an arm as a set.

**Hinge Units for Fixtures - Horizontal**

(Alteration NB)  
\* The fulcrum pin is sold separately. P907-  
RoHS

**Slide Units for Fixtures**

RoHS

**JHS (Rail & Arm Set)**  
**JHSS (Joint Clearance of Rail and Arm 0 ~ 0.02, Sets)**  
**JHR (Rail only)**

**Rail & Arm Set**

**Arm**  
**Rail**

Material: S45C Equivalent

**JSS (Rail & Arm Set)**  
**JSSS (Joint Clearance of Rail and Arm 0 ~ 0.02, Sets)**  
**JSR (Rail only)**

**Rail & Arm Set**

**Arm**  
**Rail**

Material: S45C Equivalent

**Hinge Units for Fixtures**

Part Number	Type	W	L	Counterbored Hole Size M*	Counterbored Hole Position				Unit Price			
					A	B	m	Z	h	d	JHS	JHR
(Rail & Arm Set)	10			For M5								
(Clearance 0 ~ 0.02)	20	60		For M6	23	14	M6	12.5	15	24		
(Rail only)	30											
	50	80		For M8	26.5	27	M8	13.5	18	30		

**Slide Units for Fixtures**

Part Number	Type	W	L	Counterbored Hole Size M*	Counterbored Hole Position		Unit Price		
					A	B	JSS	JSR	JSSS
(Rail & Arm Set)	10			M5, 2 places	L=40:A=13.75	B=12.5			
(Clearance 0 ~ 0.02)	20	40		L=40: M8, 1 place	L=60:A=20	B=20			
(Rail only)	30			L=60: M6, 2 places	L=60:A=20	B=20			
	50	80		M8, 2 places	A=26.5	B=27			

**Hinge/Slide Unit Bases for Inspection**

RoHS

Part Number	Type	A	B Selection	Applicable Hinge Unit	G	F	E	Unit Price
Hinge Unit Bases JHSP	100	65	JHS□10-60	18	32	50		
		75	JHS□20-60					
		85	JHS□30-60					
Slide Unit Bases JSSP	80	65	JSS□10-40	8.75	21.25			
		75	JSS□20-40					
		85	JSS□30-40	15	0	30		
	100	65	JSS□10-60	15	35	50		
		75	JSS□20-60					
		85	JSS□30-60					
120	105	JSS□50-80	21.5	48.5	70			

**Features:** Units with vertically moving and sliding arms. Machine the arm section to use for workpiece shape measurements.

**Hinge Units for Fixtures - Vertical**

RoHS

**JHTS**

Alphabets are engraved on the rail and arm. Please use a rail and an arm as a set.

Material: S45C Equivalent

Part Number	Type	W	L Selection	A	Unit Price
JHTS	30	60	100		
	50	80	120		

Ordering Example

Part Number	-	L	-	B
JHS20	-	60	-	
JHSP100	-	40	-	75
JHTS30	-	60	-	

Alterations

Hinge Units for Fixtures - Horizontal / Slide Units for Fixtures	Part Number	-	L	-	B	(STC, NB, LC)
Hinge Units for Fixtures - Vertical	Part Number	-	L	-	(STC, LC, SYM)	
	JHS20	-	60	-	NB	
	JSS20	-	60	-	LC20	

Alterations	Code	Spec.
Additional Surface Treatment (Black Oxide)	STC	Adds black oxide surface treatment.
Knob Bolt Set for Tightening and Fixing	NB	Instead of L pin hole, a knob-bolt is installed. A dedicated knob-bolt (Retained) is included. *Applicable to W20, 30, 50 of JHS. * Knob-bolt has retained structure. * The Knob Bolt's threaded section retracts into the counterbore when the arm is lowered not damaging the rail.
Cuts L dimension of the arm.	LC	[Ordering Code] LC20 (10mm Increment) *10 ≤ LC ≤ Lx2
Positions the dowel hole and mounting hole symmetrically.	SYM	*Applicable to JHTS only.

**Example**

Machine the arm as required.

**JHS**  
Horizontally Fixed (Standard)  
Horizontally Fixed with Knob

**JSS**  
Embedded Bushing

**JHTS**  
Product Shape  
Product  
Hinge Unit





# Clamp Plates for Inspection Components

# L Pins / T Pins

■ Features: Clamp plates for clamping inspection components and panel parts to set reference positions.

■ Edge Shape Selectable

**KJCLPS**

Material: S45C

RoHS

Part Number Type	L	H	Selection				W 0.1mm Increment	Unit Price
			T	M	D	N		
KJCLPS	40	15	5	10	5	10	When T=10 0~7	
			10					
	60	20	5	15	7	20		
			10					
80	15 20 30	10		(N>D)	25			
			30					

■ Straight Edge

**KJCLP**

Material: S45C

RoHS

Part Number Type	L	H	Selection				W 0.1mm Increment	Unit Price
			T	M	D	N		
KJCLP	40	15	10	5	15	25	When T=10 0~7	
	60			7				
	80	15 20 30		(N>D)	30			
			35					

Ordering Example

Part Number - H - B - T - M - D - N - W

KJCLPS40 - H15 - B5 - T10 - M5 - D10 - N25 - W2.0

KJCLP60 - H20 - T10 - M7 - D15 - N30 - W3.0

■ L Pins

Type	Material	Surface Treatment	Hardness
Tapered	Handle (d dim.) SGD3	Electroless Nickel Plating	23~33HRC
Straight	Pin (D dim.) S45CF	Black Oxide	

**KJL KJLB**

**KJLSB**

Material: S45C

RoHS

■ T Pins

Type	Material	Surface Treatment	Hardness
KJTSB	Handle (d dim.) SGD3 Pin (D dim.) S45CF	Black Oxide	23~33HRC

**KJTSB**

Material: S45C

RoHS

Part Number Type	D	d	Unit Price			
			KJL	KJLB	KJLSB	KJTSB
KJL KJLB KJLSB KJTSB	6	7				
	8	9				
	10	11				

Ordering Example

Part Number

KJL6

KJTSB8

# Components for Inspection

## Components for Inspection and Locating Kits, Construction Balls, Pads, Covers

Features: For locating removable jig parts. (See app. example below)

**Components for Inspection and Locating Kits** RoHS

Config.	Type	Material, Hardness, Surface Treatment			
		Collar / Bushing	Stripper Bolt	Wing Screw	Spring Pin
Provided	Hex Socket Head With Wing Screw	KJLP	SS400	SS400	Spring Steel
Not Provided	Hex Socket Head With Wing Screw	KJLPC	SS400	SS400	Spring Steel
	Hex Socket Head With Wing Screw	KJLPN	SS400	SS400	Spring Steel

\* If only shoulder bolts for wrench are required, order GMSB (P. 2-216).

**Bushing**  
\*Tolerance is applicable only with no Knurling.

**Collar**  
\*Stripper Bolt (Hex Socket Head)

Part Number	Type	D	L	Stripper Bolt								Wing Screw		Unit Price				
				P	M	f	F	Length	Head	h	d	KJLP	KJLPC	KJLPN	KJLPNC			
KJLP KJLPN	KJLPC KJLPNC	12	15	6	M4	6	7	30	4	9	3	15	21					
				6	M4	6	7	40	4	9	3	15	21					
				20	15	10	M8	8	12	25	8	16	6	24	31			
			30	10	M8	8	12	40	8	16	6	24	31					

Ordering Example: Part Number - L  
KJLP20 - 15

Alterations: Part Number - L - (HT, STC)  
KJLP20 - 15 - HT

Alterations	Code	Spec.
Plats Machining	HT	Chamfers a side of collar and bushing.
Additional Surface Treatment (Black Oxide)	STC	Adds black oxide surface treatment. *Applicable to collar and bushing only.

**Construction Balls** RoHS

**CRB**

Material: SUS440C  
Hardness: HRC56

Part Number	Type	P	T	D	L	L1	d	Unit Price
CRB	12	10	6	25.73	15.723	2.03		1 - 49 pc(s), 50-100 pcs.
	20	20	10	43	23	3		

Product CRB12 is shipped if P dimension isn't specified.

Example: Inspection Component

For Accuracy Control of Inspection Components.

**Pads for Construction Balls** RoHS

**CRBP**

Material: SS400  
Surface Treatment: Black Oxide

Part Number	Type	No.	T	D	Applicable Ball	Unit Price
CRBP	12	12	12	6	CRB12	
	20	22	10	CRB20		

Product CRBP12 is shipped if the number isn't specified.

**Covers for Construction Balls** RoHS

**CRBC**

Material: SPCC  
Surface Treatment: Black Oxide

Part Number	Type	No.	A	(B)	C	Applicable Ball	Unit Price
CRBC	12	25	21	25	CRB12		
	20	35	31	30	CRB20		

Product CRBC12 is shipped if the number isn't specified.

Ordering Example: Part Number  
CRB20  
CRBP20  
CRBC12

# Components for Inspection

## Pin Clips, Wires for Pins, Chains for Pins

Features: For storing slot pins when not in use.

**Pin Clips** RoHS

**CLIP8**

**CLIP16**

Material: SUS301

Part Number	Type	Applicable Slot Pin Handle Dia.	Unit Price	Volume Discount Rate
CLIP	8	Ø8, 10, 12	1 - 9 pc(s), 10 - 29 pcs, 30 - 49 pcs, 50-100 pcs.	
	16	Ø16, 20, 25		

For orders larger than indicated quantity, please request a quotation.

Ordering Example: Part Number  
CLIP8

Example: For storing slot pins when not in use.

Clamping force may be adjusted slightly by tightening the mounting screw.

**Wires for Slot Pins** RoHS

**KJW**

**KJWB**

Material: SUS304

Part Number	Type	D	L	Applicable Screw	Unit Price			
					50mm Increment	KJW	KJWB	Unit Price
KJW KJWB	1	300-700	M5	L300-500	L550-700	L300-500	L550-700	
	2							

\* D=2 product is shipped if D dimension isn't specified.  
\* The thickness of KJWB is D (wire dia.) + approx. 0.5mm of vinyl coating thickness.

**Chains for Slot Pins** RoHS

**KJWCH**

Material: Ring: SUS304  
Others: SWRM  
Surface Treatment: Nickel Plating

Part Number	Type	No.	A	B	C	Applicable Slot Pin Handle Dia.	Unit Price
KJWCH	1	14	12	2	8, 10		
	2	17	14.5	4	12		
	3	21	17.5	6	16		
	4	25	20.5	8	20		
	5	30	24	10	25		
	6	36	28	12	30		


Ordering Example: Part Number - L  
KJW2 - 350  
KJWCH3

# Bushings for Locating Pins - High Hardness Stainless Steel

## Straight

For products uncovered by the e-Catalog Standards, see P.131.

Features: This product is much lower than, and can be delivered more quickly than the existing products.



Type			Material	Hardness
Dp6	Dm6	Dh7		
JBK	JBKM	JBKS	High Hardness Stainless Steel	35HRC~

D	p6	m6	h7
5	+0.020 +0.012	+0.012 +0.004	0 -0.012
7	+0.024 +0.015	+0.015 +0.006	0 -0.015
12	+0.029 +0.018	+0.018 +0.007	0 -0.018

### Straight

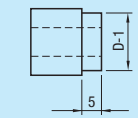
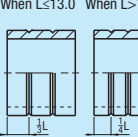
Part Number	P	L	R	Unit Price	Volume Discount Rate			
					1 ~ 19 pc(s)	20~49 pcs.	50~100 pcs.	101~300 pcs.
Type	D	0.1mm Increments	0.1mm Increments					
JBK (p6) JBKM (m6) JBKS (h7)	5	2.0~3.0	5.0~10.0	0.5				
	7	2.0~5.0	5.0~10.0					
	8	3.0~6.0	5.0~15.0					
	10	4.0~8.0	5.0~20.0					
	12	6.0~10.0	5.0~30.0					
	14	6.0~10.0	5.0~30.0					
15	8.0~12.5	5.0~40.0						

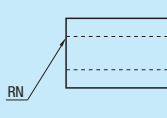
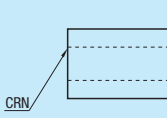
Ordering Example

Part Number		P	L
Type	D		
JBKM	8	5.9	12.0
JBKS	10	8.0	20.0

Alterations

Part Number		P	L	
Type	D			
JBKM	7	3.2	10.0	FC
JBKS	12	8.0	25.0	CRN

Alterations	Code	Spec.
Groove (for Adhesive Reservoir) 	FC	Adds an adhesive reservoir groove. D ≥ P+3: Applicable only when a wall of 1.5mm or thicker is remaining. Applicable only when L ≥ 10.
Adhesive Groove Machining When L ≤ 13.0 When L > 13.0 	RS	Adds adhesive grooves. Number of O.D. Grooves When L ≤ 13.0 → Adds two grooves. When L > 13.0 → Adds three grooves. Ordering Code RS When D ≤ 13, D-P ≥ 3. When D ≥ 14, D-P ≥ 4. Not applicable to L < 9.0.

Alterations	Code	Spec.
Radius R C Chamfered 	RN	Adds C Chamfering (0.5 or less) to R.
Radius R Square Corner 	CRN	Replaces R with square corner. Edge may be burred.