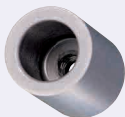


Bushings for Inspection Components

Stepped and Threaded for Straight Pins

For compatible Pins, see P.1829 and P.1839 (Straight).

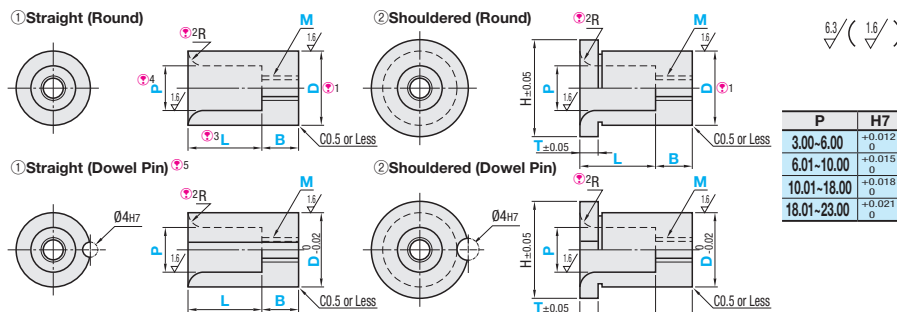
For Straight



Straight Type with Shoulder



Material	Hardness	Surface Treatment	Fixing Method	Type							
				Straight				Shouldered			
				Round	PH7	Dowel Pin	PH7	Round	PH7	Dowel Pin	PH7
SKS93 Equivalent	50~60HRC	-	Standard	KJBM	KJBHM	KJBKM	KJBKHM	KJBMT	KJBHMT	KJBKMT	KJBKHTW
SKS93 Equivalent	50~60HRC	Electroless Nickel Plating	Press Fit	KJBPM	KJBPHM	-	-	KJBPM	KJBPHMT	-	-
SUS304*6	-	-	Standard	KJBMS	KJBHMS	KJBKMS	KJBKMS	KJBMTS	KJBHMTS	-	-
SUS40C Equivalent	45~50HRC	-	Press Fit	-	-	-	-	KJBPM	KJBPHMTS	-	-
SUS40C Equivalent	45~50HRC	-	Standard	KJBMC	KJBHMC	-	-	KJBMT	KJBHMT	-	-



① Press Fit Type has a 1 ~ 3mm guide part (± 0.03).
② When wall is 2mm or less ($(D-P)/2 \leq 2$), R is 0.5. ③ When $L \leq 4$, R is nil. ④ When $P=M$, I.D. of P dimension will have thread runout.

Part Number												Shouldered Type only							
Type												D	P	M(P≥M)	L	B	T	H	R
Straight				Shouldered				Dowel Pin											
Round	PH7	Dowel Pin	PH7	Round	PH7	Dowel Pin	PH7	Round	PH7	Dowel Pin	PH7								
P ^{+0.03} _{-0.01}	PH7	P ^{+0.03} _{-0.01}	PH7	P ^{+0.03} _{-0.01}	PH7	P ^{+0.03} _{-0.01}	PH7	P ^{+0.03} _{-0.01}	PH7	P ^{+0.03} _{-0.01}	PH7	0.01mm Increment	Selection	1mm Increment	1mm Increment	Selection	D+4	1.0	
KJBM	KJBHM	KJBKM	KJBKHM	KJBMT	KJBHMT	KJBKMT	KJBKHT	8	3.00~ 6.00	3 4		When L=0, specify P as 0. 3-25 When P≤3.59 L≤Px2.5 When P>3.6 L≤Px3	0	5-25 (M≤B≤Mx3) For M3 (M≤B≤Mx2)	2	3	D+4	2.0	
KJBPM	KJBPHM			KJBPM	KJBPHMT			10	4.00~ 8.00	4 5 6 8								2.0	
KJBMM	KJBHMM							12	4.00~10.00	4 5 6 8 10								2.0	
KJBMS	KJBHMS	KJBKMS	KJBKMS	KJBMTS	KJBHMTS			16	8.00~14.00	5 6 8 10 12								2.0	
				KJBMTS	KJBPHMTS			20	10.00~18.00	5 6 8 10 12								2.0	
KJBM	KJBHM			KJBMT	KJBHMT			25	15.00~23.00	5 6 8 10 12								2.0	

⑤ For Straight Dowel Pin Type, there must be a 1mm or greater wall thickness between I.D. and dowel hole ($(D-P)/2 \geq 3$). ⑥ For SUS304, there must be a 2mm or greater wall thickness ($(D-P)/2 \geq 2$).

Ordering Example: Part Number: D - P - M - L - B - T
KJBMT12 - P30 - M5 - L10 - B10 - T2

D	① Straight Type Unit Price											
	Round						Dowel Pin					
	P ± 0.03			PH7			P ± 0.03			PH7		
8	KJBM	KJBHM	KJBKM	KJBHMT	KJBKMT	KJBKHTW	KJBM	KJBHM	KJBKM	KJBHMT	KJBKMT	KJBKHTW
10	KJBPM	KJBPHM	-	-	-	-	-	-	-	-	-	-
12	KJBMM	KJBHMM	-	-	-	-	-	-	-	-	-	-
16	KJBMS	KJBHMS	KJBKMS	KJBKMS	KJBMTS	KJBHMTS	KJBMT	KJBHMT	KJBKMT	KJBHMT	KJBKMT	KJBKHTW
20	KJBMC	KJBHMC	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-

D	② Shouldered Unit Price							
	Round				Dowel Pin			
	P ± 0.03		PH7		P ± 0.03		PH7	
8	KJBMT	KJBPM	KJBMTS	KJBHMT	KJBMT	KJBPM	KJBMTS	KJBHMT
10	KJBMT	KJBPM	KJBMTS	KJBHMT	KJBMT	KJBPM	KJBMTS	KJBHMT
12	KJBMT	KJBPM	KJBMTS	KJBHMT	KJBMT	KJBPM	KJBMTS	KJBHMT
16	KJBMT	KJBPM	KJBMTS	KJBHMT	KJBMT	KJBPM	KJBMTS	KJBHMT
20	KJBMT	KJBPM	KJBMTS	KJBHMT	KJBMT	KJBPM	KJBMTS	KJBHMT
25	KJBMT	KJBPM	KJBMTS	KJBHMT	KJBMT	KJBPM	KJBMTS	KJBHMT

Alterations: Part Number: P - M - L - B - T - (FC, NC, etc.)
KJBMT12 - P30 - M5 - L10 - B10 - FC

Alterations	Code	Spec.
Groove Alterations (for Adhesive Reservoir)	FC	Adds an adhesive reservoir groove. ① $D \geq P+3$: Applicable only when a wall of 1.5mm or thicker is remaining. ② Applicable when $L+B \geq 10$ for Straight Type, $L+B \geq 15$ for Shouldered Type.
Groove Alterations (For retaining)	NC	Adds groove for retaining. ① $D \geq P+3$: Applicable only when a wall of 1.5mm or thicker is remaining. ② Applicable when $L+B \geq 10$ for Straight Type, $L+B \geq 15$ for Shouldered Type.
Bore I.D. R C Chamfered	RN	Adds C Chamfering (0.5 or less) to R.

Alterations	Code	Spec.
Bore I.D. R Square Corner	CRN	Replaces R with square corner. ① Edge may be burred. ② Combination with TKC is not available.
Additional Surface Treatment (Black Oxide)	STC	Adds black oxide surface treatment. ① Applicable only to material SKS93 (except electroless nickel plating).
Shoulder Thickness Tolerance	TKC	Changes shoulder thickness tolerance to ± 0.01 . ① Applicable to Shouldered Type only. ② Combination with alteration CRN is not available.
Plating Alterations	HT	Adds a flat on bushing. ① Applicable to Round Type only. ② No flat on shoulder part.

Bushings for Inspection Components

Stepped and Threaded for Taper Pins

For compatible Pins, see P.1835 and P.1839 (Tapered Type).

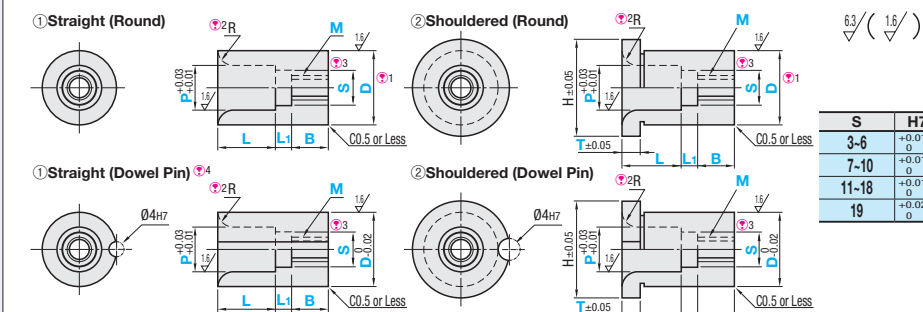
For Tapered (Round)



Tapered Type with Shoulder (Dowel Pin)



Material	Hardness	Surface Treatment	Fixing Method	Type							
				Straight				Shouldered			
				Round	SH7	Dowel Pin	SH7	Round	SH7	Dowel Pin	SH7
SKS93	50~60HRC	-	Standard	KJBW	KJBHW	KJBKW	KJBTW	KJBHTW	KJBKTW	KJBKHTW	KJBKHTW
Equivalent	50~60HRC	Electroless Nickel Plating	Press Fit	KJBWP	KJBHPW	-	KJBPTW	KJBPHTW	-	-	-
SKS93 Equivalent	50~60HRC	-	Standard	KJBWM	KJBHWM	-	-	-	-	-	-



① Press Fit Type has a 1 ~ 3mm guide part (± 0.03).
② When wall is 2mm or less ($(D-P)/2 \leq 2$), R is 0.5. ③ When $S=M$, I.D. of S dimension will have thread runout.

Part Number							D	P	S(S≤P-1)	M	L	L ₁	B	Shouldered Type only	
Type														T	H
Straight			Shouldered												
Round		Dowel Pin	Round		Dowel Pin										
S ^{+0.03} _{-0.01}	SH7	S ^{+0.03} _{-0.01}	S ^{+0.03} _{-0.01}	SH7	S ^{+0.03} _{-0.01}	SH7	0.01mm Increment	1mm Increment	Selection	1mm Increment	1mm Increment	1mm Increment	Selection		
KJBW	KJBHW	KJBKW	KJBTW	KJBHTW	KJBKTW	KJBKHTW	8	4.00~ 6.00	3~ 5	3 4	L ⁺³⁻²⁵ _{≤Px2.5}	L ⁺³⁻²⁵ _(L+L₁≤Sx2.5)	5-25 (M≤B≤Mx3) For M3 (D8) (M≤B≤Mx2) When S=M L ₁ +B≤Mx3	2 3 5	D+4
							10	5.00~ 8.00	4~ 7	4 5 6					
							12	5.00~10.00	4~ 9	4 5 6 8					
KJBWP	KJBPHW		KJBPTW	KJBPTHW			16	8.00~14.00	4~13	4 5 6 8 10 12	L ⁺³⁻²⁵ _(L≤Px3)	3≤L ₁ <25-L (L+L ₁ ≤Sx3)			
							20	10.00~18.00	6~17	4 5 6 8 10 12	No R for 3, 4				
KJBWM	KJBHWM						25	15.00~23.00	8~19	4 5 6 8 10 12					

④ For Straight Dowel Pin Type, there must be a 1mm or greater wall thickness between I.D. and dowel hole ($(D-P)/2 \geq 3$).

Ordering Example: Part Number: D - P - S - M - L - B - T
KJBWT10 - P30 - S5 - M4 - L8 - 4 - B10 - T2

D	① Straight Unit Price				② Shouldered Unit Price			
	Round		Dowel Pin		Round		Dowel Pin	
	S ± 0.03	SH7	S ± 0.03	SH7	S ± 0.03	SH7	S ± 0.03	SH7
8	KJBW	KJBHW	KJBKW	KJBTW	KJBHTW	KJBKTW	KJBKHTW	KJBKHTW
10	KJBWP	KJBHPW	-	-	KJBPTW	KJBPHTW	-	-
12	KJBWM	KJBHWM	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-

Alterations: Part Number: P - S - M - L - B - T - (FC, PKC, NC, etc.)
KJBWT12 - P30 - S6 - M5 - L10 - 4 - B10 - FC

Alterations	Code	Spec.
Groove Alterations (for Adhesive Reservoir)	FC	Adds an adhesive reservoir groove. ① $D \geq P+3$: Applicable only when a wall of 1.5mm or thicker is remaining. ② Applicable when $L+B \geq 10$ for Straight Type, $L+B \geq 15$ for Shouldered Type.
Groove Alterations (For retaining)	NC	Adds groove for retaining. ① $D \geq P+3$: Applicable only when a wall of 1.5mm or thicker is remaining. ② Applicable when $L+B \geq 10$ for Straight Type, $L+B \geq 15$ for Shouldered Type.
Bore I.D. R C Chamfered	RN	Adds C Chamfering (0.5 or less) to R.
Bore I.D. R Square Corner	CRN	Replaces R with square corner. ① Edge may be burred. ② Combination with TKC is not available.

Alterations	Code	Spec.
Additional Surface Treatment (Black Oxide)	STC	Adds black oxide surface treatment. ① Applicable only to material SKS93 (except electroless nickel plating).
P Dimension Tolerance	PKC	Changes P dimension tolerance to H7.
Shoulder Thickness Tolerance	TKC	Changes shoulder thickness tolerance to ± 0.01 . ① Applicable to Shouldered Type only. ② Combination with alteration CRN is not available.
Plating Alterations	HT	Adds a flat on bushing. ① Applicable to Round Type only. ② No flat on shoulder part.