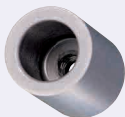


Bushings for Inspection Components

Stepped and Threaded for Straight Pins

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

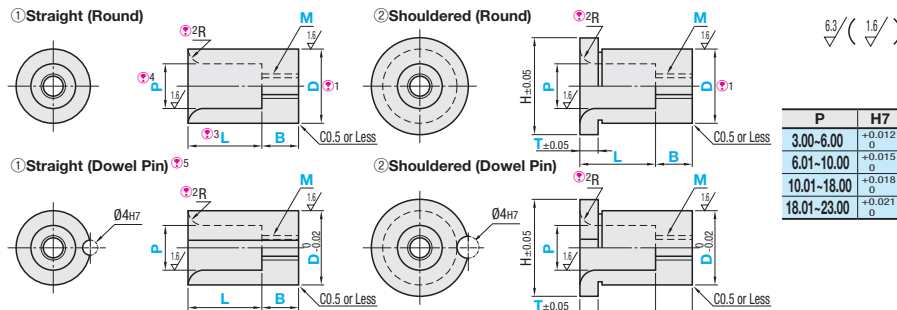
■ For Straight



■ Straight Type with Shoulder



Material	Hardness	Surface Treatment	Fixing Method	Type							
				Straight				Shouldered			
				Round	PH7	Dowel Pin	PH7	Round	PH7	Dowel Pin	PH7
JIS-SKS93 Equiv.	50~60HRC	-	Standard	KJBM	KJBHM	KJBKM	KJBKHM	KJBMT	KJBHMT	KJBKMT	KJBKHTW
JIS-SKS93 Equiv.	50~60HRC	Electroless Nickel Plating	Press Fit	KJBPM	KJBPHM	-	-	KJBPM	KJBPHMT	-	-
EN 1.4301 Equiv. *6	-	-	Standard	KJBMS	KJBHMS	KJBKMS	KJBKMS	KJBMTS	KJBHMTS	-	-
EN 1.4125 Equiv.	45~50HRC	-	Press Fit	-	-	-	-	KJBPM	KJBPHMTS	-	-
EN 1.4125 Equiv.	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											
Type								Shouldered Type only			
Straight				Shouldered				D	P	M(P≥M)	L
Round	PH7	Dowel Pin	PH7	Round	PH7	Dowel Pin	PH7				
KJBM	KJBHM	KJBKM	KJBKHM	KJBMT	KJBHMT	KJBKMT	KJBKHTW	8	3.00~6.00	3 4	0
KJBPM	KJBPHM	-	-	KJBPM	KJBPHMT	-	-	10	4.00~8.00	4 5 6 8	When L=0, specify P as 0.
KJBMM	KJBHMM	-	-	-	-	-	-	12	4.00~10.00	4 5 6 8 10	3~25
KJBMS	KJBHMS	KJBKMS	KJBKMS	KJBMTS	KJBHMTS	-	-	16	8.00~14.00	5 6 8 10 12	When P≤3.59
-	-	-	-	KJBPM	KJBPHMTS	-	-	20	10.00~18.00	5 6 8 10 12	L≤P×2.5
-	-	-	-	KJBMC	KJBHMC	-	-	25	15.00~23.00	5 6 8 10 12	When P≤3.6
-	-	-	-	-	-	-	-	-	-	-	L≤P×3

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 EN 1.4301 Equiv., 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 - P00 - M5 - L10 - B10 - T2

D	① Straight Type Unit Price											
	Round						Dowel Pin					
	P ± 0.03 +0.01			PH7			P ± 0.03 +0.01			PH7		
8	KJBM	KJBHM	KJBKM	KJBHMT	KJBKMT	KJBKHTW	KJBKM	KJBKMS	KJBKHM	KJBKHTW	-	-
10	KJBPM	KJBPHM	-	-	-	-	-	-	-	-	-	-
12	KJBMM	KJBHMM	-	-	-	-	-	-	-	-	-	-
16	KJBMS	KJBHMS	KJBKMS	KJBKMS	KJBMTS	KJBHMTS	KJBPM	KJBPHMTS	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-

D	② Shouldered Unit Price							
	Round				Dowel Pin			
	P ± 0.03 +0.01		PH7		P ± 0.03 +0.01		PH7	
8	KJBMT	KJBPM	KJBMTS	KJBPM	KJBMT	KJBPM	KJBMT	KJBPM
10	KJBMT	KJBPM	KJBMTS	KJBPM	KJBMT	KJBPM	KJBMT	KJBPM
12	KJBMT	KJBPM	KJBMTS	KJBPM	KJBMT	KJBPM	KJBMT	KJBPM
16	KJBMT	KJBPM	KJBMTS	KJBPM	KJBMT	KJBPM	KJBMT	KJBPM
20	KJBMT	KJBPM	KJBMTS	KJBPM	KJBMT	KJBPM	KJBMT	KJBPM
25	KJBMT	KJBPM	KJBMTS	KJBPM	KJBMT	KJBPM	KJBMT	KJBPM

Alterations: Part Number [D] - P - M - L - B - T - (FC, NC, etc.)
KJBMT12 - P00 - M5 - L10 - B10 - FC

Alterations	Code	Spec.
Groove Alterations (for Adhesive Reservoir)	FC	Adds an adhesive reservoir groove. ① D≥P+3: Applicable only when a wall of 1.5mm or thicker is remaining. ② Applicable when L+B≥10 for Straight Type, L+B≥15 for Shouldered Type.
Groove Alterations (For retaining)	NC	Adds groove for retaining. ① D≥P+3: Applicable only when a wall of 1.5mm or thicker is remaining. ② Applicable when L+B≥10 for Straight Type, L+B≥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 JIS-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.
Plats Machining 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).

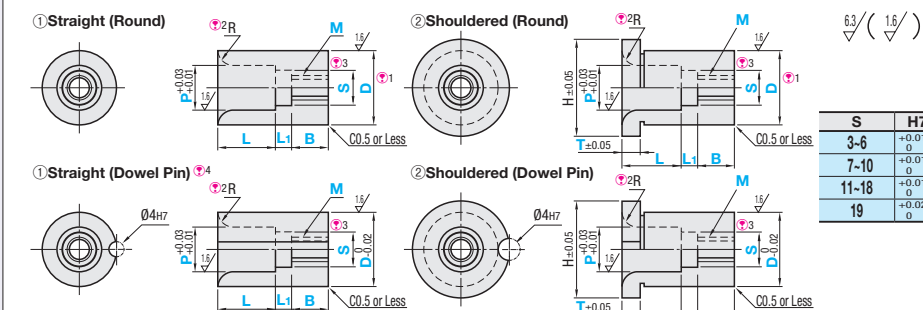
■ For Tapered (Round)



■ 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
JIS-SKS93 Equiv.	50~60HRC	-	Standard	KJBW	KJBHW	KJBKW	KJBTW	KJBHTW	KJBKTW	KJBKHTW	-
JIS-SKS93 Equiv.	50~60HRC	Electroless Nickel Plating	Press Fit	KJBWP	KJBPHW	-	KJBPTW	KJBPHTW	-	-	-
JIS-SKS93 Equiv.	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											
Type								Shouldered Type only			
Straight				Shouldered				D	P	S(S≤P-1)	M
Round	SH7	Dowel Pin	SH7	Round	SH7	Dowel Pin	SH7				
KJBW	KJBHW	KJBKW	KJBTW	KJBHTW	KJBKTW	KJBKHTW	-	8	4.00~6.00	3~5	3 4
-	-	-	-	-	-	-	-	10	5.00~8.00	4~7	4 5 6
-	-	-	-	-	-	-	-	12	5.00~10.00	4~9	4 5 6 8
-	-	-	-	-	-	-	-	16	8.00~14.00	4~13	4 5 6 8 10 12
-	-	-	-	-	-	-	-	20	10.00~18.00	6~17	4 5 6 8 10 12
-	-	-	-	-	-	-	-	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 - L1 - B - T
KJBWT10 - P00 - S5 - M4 - L8 - 4 - B10 - T2

D	① Straight Unit Price				② Shouldered Unit Price			
	Round		Dowel Pin		Round		Dowel Pin	
	S ± 0.03 +0.01	SH7	S ± 0.03 +0.01	SH7	S ± 0.03 +0.01	SH7	S ± 0.03 +0.01	SH7
8	KJBW	KJBHW	KJBKW	KJBTW	KJBHTW	KJBKTW	KJBKHTW	-
10	KJBWP	KJBPHW	-	-	-	-	-	-
12	KJBWM	KJBHWM	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-

Alterations: Part Number [D] - P - S - M - L - L1 - B - T - (FC, PKC, NC, etc.)
KJBWT12 - P00 - S6 - M5 - L10 - 4 - B10 - FC

Alterations	Code	Spec.
Groove Alterations (for Adhesive Reservoir)	FC	Adds an adhesive reservoir groove. ① D≥P+3: Applicable only when a wall of 1.5mm or thicker is remaining. ② Applicable when L+B≥10 for Straight Type, L+B≥15 for Shouldered Type.
Groove Alterations (For retaining)	NC	Adds groove for retaining. ① D≥P+3: Applicable only when a wall of 1.5mm or thicker is remaining. ② Applicable when L+B≥10 for Straight Type, L+B≥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 JIS-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.
Plats Machining Alterations	HT	Adds a flat on bushing. ① Applicable to Round Type only. ② No flat on shoulder part.