


Bushings for Inspection Jigs

Oval

Applicable Pins: (Diamond-Shaped Edge Type) P.1806, (Standard) P.1810

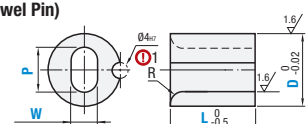


RoHS 10

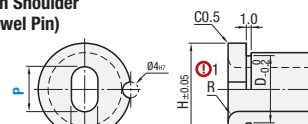
	Material	Hardness	(1) Straight		(2) Shouldered		P, W	H7
			Type	Material Code	Type	Material Code		
Dowel Pin	SKS93 Tool Steel (JIS) Equivalent	50-60 HRC min.	(P ^{+0.03} / _{-0.01} / W ^{+0.03} / _{-0.01}) KJB	SC	(P ^{+0.03} / _{-0.01} / W ^{+0.03} / _{-0.01}) KJB	STC	3.00-6.00	+0.012 0
	304 Stainless Steel	—	(P _{H7} /W _{H7}) KJBH	SCS	(P _{H7} /W _{H7}) KJBH	STCS	6.01-10.00	+0.015 0
	440C or 420 Stainless Steel	45-50 HRC min.	(P _{H7} /W _{H7}) KJBH	SCC	(P _{H7} /W _{H7}) KJBH	STCC	10.01-18.00	+0.018 0
D Cut	SKS93 Tool Steel (JIS) Equivalent	50-60 HRC min.	(P ^{+0.03} / _{-0.01} / W ^{+0.03} / _{-0.01}) KJB	SCD	(P ^{+0.03} / _{-0.01} / W ^{+0.03} / _{-0.01}) KJB	STCD	18.01-27.00	+0.021 0
	304 Stainless Steel	—	(P _{H7} /W _{H7}) KJBH	SCDS	(P _{H7} /W _{H7}) KJBH	—	—	—
	440C or 420 Stainless Steel	45-50 HRC min.	(P _{H7} /W _{H7}) KJBH	—	(P _{H7} /W _{H7}) KJBH	STCDC	—	—

P, W	H7
3.00-6.00	+0.012 0
6.01-10.00	+0.015 0
10.01-18.00	+0.018 0
18.01-27.00	+0.021 0

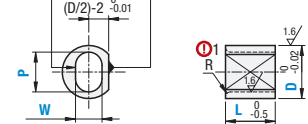
(1) Straight (Dowel Pin)



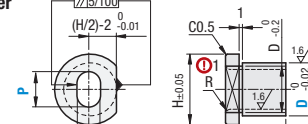
(2) With Shoulder (Dowel Pin)



(1) Straight (D-Cut)



(2) With Shoulder (D-Cut)



Some combinations are unavailable. Please refer to the table below.
 1. When wall is 2 mm or less ((D-P)/2 ≤ 2), R is 0.5.

Select Type, Material Code, D Dimension (For details, refer to ordering example below).

Type	Material Code				D	All Types				2Shouldered Type only		
	Straight, Dowel ②	Straight, D-Cut	Shouldered, Dowel ②	Shouldered, D-Cut		0.01mm Increment		L	R	T	H	
(P ^{+0.03} / _{-0.01} / W ^{+0.03} / _{-0.01}) KJB (P _{H7} /W _{H7}) KJBH	SC SCS SCC	SCD SCDS	STC STCS STCC	STCD STCDC	8 ③	4.00-6.00		P > W (W ≥ 3.00)	L 1mm Increment	R 2.0	T 2	H D+4
					10	4.00-8.00						
					12	4.00-10.00						
					16	6.00-14.00						
					20	10.00-18.00						
					25	14.00-22.00						
30 ④	20.00-27.00											

- ② For Straight Type, there must be a 1mm or greater wall thickness between dowel hole and slotted hole ((D-W)/2) - 2 ≥ 1).
- ③ D=8 is applicable to Shouldered Type only. ④ D=30 is applicable to material of SKS93 Tool Steel (JIS) Straight Type only.

D	1 Straight - Available Types						D-Cut					
	Dowel Pin			D-Cut			P _{H7} W _{H7}		P _{H7} W _{H7}		P _{H7} W _{H7}	
10	KJBSC	KJBSCS	KJBSCC	KJBHSC	KJBHSCS	KJBHSCC	KJBSCD	KJBSCDS	KJBSCDC	KJBSCDCS	KJBSCDCD	KJBSCDCDS
12	•	•	•	•	•	•	•	•	•	•	•	•
16	•	•	•	•	•	•	•	•	•	•	•	•
20	•	•	•	•	•	•	•	•	•	•	•	•
25	•	•	•	•	•	•	•	•	•	•	•	•
30	•	•	•	•	•	•	•	•	•	•	•	•

D	2Shouldered - Available Types						D-Cut					
	Dowel Pin			D-Cut			P _{H7} W _{H7}		P _{H7} W _{H7}		P _{H7} W _{H7}	
8	KJBSTC	KJBSTCS	KJBSTCC	KJBHSTC	KJBHSTCS	KJBHSTCC	KJBSTCD	KJBSTCDS	KJBSTCDC	KJBSTCDCS	KJBSTCDCD	KJBSTCDCDS
10	•	•	•	•	•	•	•	•	•	•	•	•
12	•	•	•	•	•	•	•	•	•	•	•	•
16	•	•	•	•	•	•	•	•	•	•	•	•
20	•	•	•	•	•	•	•	•	•	•	•	•
25	•	•	•	•	•	•	•	•	•	•	•	•

Part Number Alterations
 Part Number: KJBHSC20 - P15.00 - W12.00 - L20 - - NC

Part Number Example
 Part Number: KJB STC 12 - P9.50 - W4.50 - L15 - T2


Alterations	Code	Spec.
Groove (For Adhesive Reservoir)	FC	Adds a groove for adhesive. ① D ≥ P+3: Applicable only when a wall of 1.5 mm or thicker is remaining. ② Applicable when L ≥ 8 for Straight Type, L ≥ 15 for Shoulder Type.
Groove (Retaining)	NC	Adds a groove for retaining. ① D ≥ P+3: Applicable only when a wall of 1.5 mm or thicker is remaining. ② Applicable when L ≥ 8 for Straight Type, L ≥ 15 for Shoulder Type.

Alterations	Code	Spec.
Radius R Chamfered	RN	Adds C Chamfering (0.1 or less) to R.
Shoulder Thickness Tolerance	TKC	Changes shoulder thickness tolerance to ±0.01. ① Applicable to With Shoulder Type only.
Changes L Dimension Tolerance	LKC	Changes L dimension tolerance to 0 -0.05. ① Applicable only when L ≤ 19.

Bushings for Inspection Jigs

Square

Applicable Pins: (Standard) P.1811

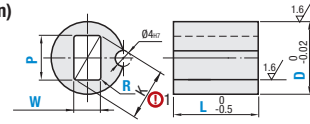


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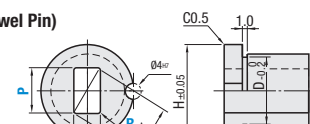
	Material	Hardness	(1) Straight		(2) Shouldered		P, W	H7
			Type	Material Code	Type	Material Code		
Dowel Pin	SKS93 Tool Steel (JIS) Equivalent	50-60 HRC min.	(P ^{+0.03} / _{-0.01} / W ^{+0.03} / _{-0.01}) KJB	SR	(P ^{+0.03} / _{-0.01} / W ^{+0.03} / _{-0.01}) KJB	STR	3.00-6.00	+0.012 0
	304 Stainless Steel	—	(P _{H7} /W _{H7}) KJBH	SRS	(P _{H7} /W _{H7}) KJBH	—	6.01-10.00	+0.015 0
D Cut	SKS93 Tool Steel (JIS) Equivalent	50-60 HRC min.	(P ^{+0.03} / _{-0.01} / W ^{+0.03} / _{-0.01}) KJB	SRD	—	—	10.01-18.00	+0.018 0
	304 Stainless Steel	—	(P _{H7} /W _{H7}) KJBH	SRDS	—	—	18.01-22.00	+0.021

P, W	H7
3.00-6.00	+0.012 0
6.01-10.00	+0.015 0
10.01-18.00	+0.018 0
18.01-22.00	+0.021

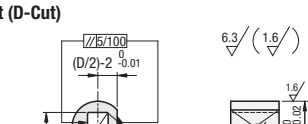
(1) Straight (Dowel Pin)



(2) With Shoulder (Dowel Pin)



(1) Straight (D-Cut)



1. $K = \sqrt{(P-2R)^2 + (W-2R)^2} + 2R$

Type	Material Code			D ③	All Types			2 Shouldered Type only				
	Straight, Dowel ②	Straight, D-Cut	Shouldered, Dowel ②		0.01 mm Increment			L	T			
(P ^{+0.03} / _{-0.01} / W ^{+0.03} / _{-0.01}) KJB (P _{H7} /W _{H7}) KJBH	SR SRS	SRD SRDS	STR	8 ④	4.00-6.00			P ≥ W (W ≥ 3.00)	0.20 ≤ R ≤ W/2	(Straight) 5-20 (Shouldered) 10-20	2 3 5 T ≤ L-2	D+4
				10	4.00-8.00							
				12	4.00-10.00							
				16	6.00-14.00							
				20	10.00-18.00							
25	12.00-22.00											

- ② For Straight Type, there must be a 1mm or greater wall thickness between Dowel Hole and Square ((D-W)/2) - 2 ≥ 1).
- ③ There must be a 1mm or greater wall thickness between O.D. and square hole (For D=25, 1.5mm or more). (K ≤ Pmax) ④ D=8 is applicable to Shouldered Type only.

D	1 Straight - Available Types						2 Shouldered - Available Types					
	Dowel Pin			D-Cut			Dowel Pin		D-Cut		D-Cut	
8	KJBRS	KJBRSRS	KJBHSR	KJBHSRS	KJBSRD	KJBSRDS	KJBSTR	KJBSTRD	KJBHSTR	KJBHSTRD	KJBHSTRD	KJBHSTRD
10	•	•	•	•	•	•	•	•	•	•	•	•
12	•	•	•	•	•	•	•	•	•	•	•	•
16	•	•	•	•	•	•	•	•	•	•	•	•
20	•	•	•	•	•	•	•	•	•	•	•	•
25	•	•	•	•	•	•	•	•	•	•	•	•

- ② There must be a 1mm or greater wall thickness between O.D. and square hole (For D=25, 1.5mm or more). (K ≤ Pmax)

Part Number Example
 Part Number: KJB STR 12 - P9.00 - W4.00 - R0.3 - L15 - T2

Part Number Alterations
 Part Number: KJBHSR20 - P12.00 - W10.00 - R0.3 - L20 - - NC

Alterations	Code	Spec.
Groove (For adhesive reservoir)	FC	Adds a groove for adhesive. ① D ≥ P+3: Applicable only when a wall of 1.5mm or thicker is remaining. ② Applicable when L ≥ 8 for Straight Type, L ≥ 15 for Shoulder Type.
Groove (Retaining)	NC	Adds a groove for retaining. ① D ≥ P+3: Applicable only when a wall of 1.5mm or thicker is remaining. ② Applicable when L ≥ 8 for Straight Type, L ≥ 15 for Shoulder Type.

Alterations	Code	Spec.
Shoulder Thickness Tolerance	TKC	Changes shoulder thickness tolerance to ±0.01. ① Applicable to With Shoulder Type only.
Changes L Dimension Tolerance	LKC	Changes L dimension tolerance to 0 -0.05. ① Applicable only when L ≤ 19.