

Bushings for Inspection Jigs

Threaded Bushings / for Plastic Panels

Bushings for Inspection Jigs – Threaded Bushings

Material	Round	Dowel Pin
1045 Carbon Steel or Equivalent	KJBND	KJBKND

Part Number Type	D	M Selection				L 1 mm Increment
		4	5*	6*	8*	
KJBND	10	4	5*	6*	6-25 L≤Mx3	
KJBKND	12	4	5	6		
	16	5	6	8		
	20	5	6	8		

Part Number Example
Part Number - **M** - **L**
KJBND16 - **M6** - **L15**

Ⓢ For KJBKND, M size with * is not available for selection. Ⓢ S10 is M10 fine thread (pitch 1.25).

Part Number Alterations
Part Number - **M** - **L** - **(FC, NC...etc.)**
KJBND16 - **M6** - **L15** - **FC**

Alterations	Code	Spec.
Groove (For Adhesive Reservoir)	FC	Adds an adhesive reservoir groove.
Groove (Retaining)	NC	Adds a groove for retaining.
Additional Surface Treatment (Black Oxide)	STC	Adds Black Oxide Surface Treatment.
Flats Machining	HT	Adds a flat on bushing. Ⓢ Applicable to Round Type only.

Bushings for Inspection Jigs – for Plastic Panels

	Material	Hardness	Round		Oval		Square	
			Type	Material Code	Type	Material Code	Type	Material Code
Standard	1045 Carbon Steel or Equivalent 304 Stainless Steel	17-23 HRC	KJR	B	KJR	BC	KJR	BR
Thin Wall	1045 Carbon Steel or Equivalent	17-23 HRC	KJRU	B	KJRU	BC	KJRU	BR

Ⓢ 1. 2 mm when L is 8 mm or less.
 Ⓢ 2. Oval: P>W
 Ⓢ 3. Square: P≥W, 0.20≤R≤ $\frac{W}{2}$; D-2≥K, $K=\sqrt{(P-2R)^2+(W-2R)^2}+2R$

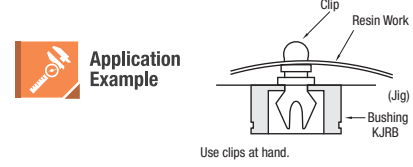
Type	Material Code			D	P 0.05 mm Increment	L 1 mm Increment	W 0.05 mm Increment	R 0.1 mm Increment	S 0.05mm Increment	D ₁		Available Types							
	Round	Oval	Square							Standard	Thin Wall	KJRB	KJRC	KJRB	KJRC	KJRB	KJRC	KJRB	KJRC
Standard KJR	Common for KJR, KJRU	BC	BR	16	3.00-8.00	6-25	Oval: P>W (W≥3.00) Square: P≥W (W≥3.00)	0.2≤R≤ $\frac{W}{2}$	0.50-5.00 For 304 Stainless Steel 1.00-5.00	10	12	•	•	•	•	•	•		
Thin Wall KJRU				BS	BRS					20	4.00-12.00	14	16	•	•	•	•	•	•
			25	4.00-17.00	19					21	•	•	•	•	•	•	•	•	•
			30 Ⓢ4	4.00-22.00	26					—	•	•	•	•	•	•	•	•	•

Ⓢ 4. D=30 is applicable to standard type only. (For standard type is the thinnest.)

Part Number Example
Part Number - **P** - **L** - **W** - **R** - **S**
KJRUB20 - **P6.0** - **L15** - **W6.5** - **R0.80**
KJRUBC25 - **P10.0** - **L10** - **W6.5** - **S2.00**

Part Number Alterations
Part Number - **P** - **L** - **W** - **R** - **S** - **(STC/HT)**
KJRBR20 - **P8.0** - **L6** - **W6** - **R0.5** - **S1.0** - **STC**

Alterations	Code	Spec.
Additional Surface Treatment (Black Oxide)	STC	Adds Black Oxide Surface Treatment. Ⓢ Applicable to Material 1045 Carbon Steel or Equivalent only.
Flats Machining	HT	Adds a flat on bushing. Ⓢ Applicable to Round Type only.



Shim Plates / Height Adjusting Pins

Square / Round / Standard / Threaded

Shim Plates – Square

Type	Material	Hardness
No Hole		
Hole		
Blank		
KJTC	1018 Carbon Steel or Equivalent	—
KJTCY	1045 Carbon Steel or Equivalent	40-45 HRC

No Hole Type
 *For 1 countersink hole

Hole Type
 *For 2 countersink holes

Blank Type
 Cut as required.

No Hole Type

Part Number Type	No.	Number of Countersinks	T Selection	Unit*Price				
				A	B	KJTC	KJTCY	KJTCY
No Hardened KJTC	10	1	2	10	10	—	—	—
	10-15			10	15	—	—	—
	10-20			10	20	•	•	•
	15			15	•	•	•	
	15-20			15	20	•	•	•
Hardened KJTCY	20S	1	3	20	20	—	—	—
	20-25			20	25	•	•	•
Hardened KJTCY	20-30	2	5	20	30	•	•	•
	20-40			20	40	•	•	•
	25			25	25	•	•	•
	25-30			25	30	•	•	•
	25-40			25	40	•	•	•
	30			30	30	•	•	•

Hole Type

Part Number Type	A	T Selection	V Selection					
			6	8	10	13	14	16
No Hardened KJTCY	25	2	6	8	10	13	14	16
	30		12	14	16	18	20	22
	35		12	14	16	18	20	22

Blank Type

Part Number Type	A	T
No Hardened KJTCB	19	3
	20	3

Ⓢ Sizes without price indications are not available.

Shim Plates – Round

Type	Material	Hardness
KJTCC	1018 Carbon Steel or Equivalent	—
KJTCCY	1045 Carbon Steel or Equivalent	40-45 HRC

D=10, 15

D=20, 25, 30

Ⓢ When T=2, only countersinking is applicable.

Type	Part Number	D	T Selection
KJTCC KJTCCY		10	2 3 5
		15	
		20	
		25	

Height Adjusting Pins – Standard

KJTP

Material: 1018 Carbon Steel or Equivalent

Type	Part Number	D	T Selection	d	L
KJTP		10	2	4	5
		12			
		16			
		18			
		20			

Part Number Example
Part Number - **T** - **V** - **M**
KJTC10 - **3**
KJTC30 - **5** - **V12**
KJTCB19 - **3**
KJTPM12 - **3** - **M6**

Height Adjusting Pins – Threaded

KJTPM

Material: 1018 Carbon Steel or Equivalent

M	L
5	4
6	5
8	6

Type	Part Number	D	T	M	W
KJTPM		10	3	5 6	8
		12		5 6	
		16		6 8	
		16		6 8	

