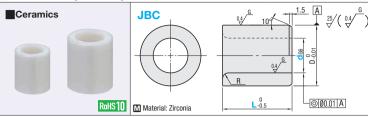
# **Bushings for Locating Pins**

### Ceramic / Inner Groove Straight / Shouldered

Features: Bushings for Locating Pins - Ceramics - excel in heat resistance, insulation, and abrasion resistance



SISL	ance.					
		Ordering	Part Number	] - [	L	]
)		Example	JBC16	-	20	

Part	L Selection					R	D	Unit Price		
Type	dG6			L Selection				n	U	JBC
	6	+0.012 +0.004	8	10				1	10	
	8	+0.014		10	12				12	
	10	+0.005							15	
JBC	12	+0.017 +0.006	40	12	16		2	18		
JBC	13			10	12	10		2	22	
	15					40	00		25	
	16					16	20		26	
	20	+0.020 +0.007					20	3	30	

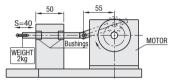
## Properties

Item	Unit	Part Number			
item	Onit	JBC			
Specific Gravity	g/cm <sup>2</sup>	6.0			
Moisture Absorption Ratio	%	0			
Vickers Hardness	HV	1300			
Flexural Strength	kg/mm <sup>2</sup>	100			
Linear Expansion Coefficient	x10 <sup>-6</sup> /°C	10.0			
Thermal Conductivity	cal/cm·sec·°C	0.007			
Volume Inherent Resistivity	Ω·cm	3x10 <sup>12</sup>			

- Avoid pressing Ceramic Bushing in. It may crack when struck hard. Use of Loctite is recommended.
- Strength may degrade when used at the temperature over 10°C for extended durations, or when operating temperature varies from normal to high repeatable.

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

### ■Bushings for Locating Pins - Ceramic Abrasion Data



Sample	Inner Diameter (Before Test)	Inner Diameter (After Test)	Difference		
Ceramic JBC10-10	10.011	10.012	0.001		
Steel JBA10-10	10.008	10.037	0.029		

#### ■Test Conditions

<Measuring Method>

Apply load on the bush by reciprocating Ø10 round shaft with 40mm stroke with a 2kg weight on the end in the crank mechanism (left diagram).

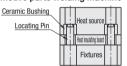
- Cranking Speed: 150rpmRound Shaft Stroke: 40mm
- Temperature : 25~27°C
- Operation Hours : 60 hours each
   Lubricant: JIS Machine Oil (Tellus 32) \* drip-feed every 2 hours
- Ø10 Round Shaft Material: SK3 (No Heat Treatment)
- Testing Results

Ceramics excel in abrasion resistance compared to steel. Suitable for long-term use with locating pins insertion and extraction, maintaining an excellent abrasion resistance.

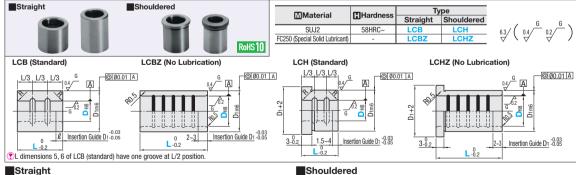


Example

Automotive parts welding machine



How to Mount: Set a plastic board. Using a plastic hammer, press Ceramic Bushing slightly in. Circumstance: Set it between heat source and fixtures with high accuracy but transfer minimum heat to fixtures.



Part Number

D<sub>H8</sub> 5 +0.018

Straight														
Part Number			L Selection						D <sub>1m6</sub>		Q.	R	Unit Price	
Type		Эн8		L Selection				D1m6		L.	K	LCB	LCBZ	
	5	+0.018	*5	*6	*8	*10	*12	*16	10	0.021 1.5	۸.		-	
	6	0	6	8	10	*12	*16		12		2	0.5		
	8	+0.022		10	12	16	20		14	0.025	3	1		
(Standard)	10		8						16	0.025		'		
LCB	12	+0.027 0 16 +0.033 0 20	10	40	16	20	25		18 22	3	10			
(No Lubrication)	13			12							1	1.2		
LCBZ	15		16	*20	25	30			25			1.5		
LODZ	16		T.,		0.5				26					
	20		20	25	30			30		4				
	25		20	25	30	35			35	0.034		2		

L

8 +0.022 14 10 12 0.025 16 LCH 18 16 22 (No Lubrication) **LCHZ** 15 25 26 +0.033

L Selection

For orders larger than indicated quantity, please check with WOS. L Dimensions marked with \* are available for LCH only. For orders larger than indicated quantity, please check with WOS.



TL Dimensions marked with \* are available for LCB only.

Unit Price