

# PLAIN GUIDE BUSHINGS FOR DIE SETS

**RoHS** **MDB** (Devcon adhesive type)

Catalog No.	Type	d	L		Base unit price
					1~9 pieces
MDB		20	50		Quotation
		22	50	60	
		25	60	80	
		28	60	80	
		32	80	100	
		38	80	100	
		45	100	120	
		60	100	120	

M SUJ2 A Grease nipple GPA6A  
H 58HRC~

**RoHS** **LDB** (Loctite adhesive type)

Catalog No.	Type	d	L		Base unit price
					1~9 pieces
LDB		20	50		Quotation
		22	50	60	
		25	60	80	
		28	60	80	
		32	80	100	
		38	80	100	
		45	100	120	
		60	100	120	

M SUJ2 A Grease nipple GPA6A  
H 58HRC~

**LFB** (Copper alloy type)

Copper alloy

Catalog No.	Type	d	L		Base unit price
					1~9 pieces
LFB		20	50		Quotation
		22	50	60	
		25	60	80	
		28	60	80	
		32	80	100	
		32	80	100	

M SUJ2+Copper alloy A Grease nipple GPA6A  
H 45HRC~ (SUJ2 part)

**RoHS** **LDBZ** (Oil-free type)

Catalog No.	Type	d	L		Base unit price
					1~9 pieces
LDBZ		20	50		Quotation
		22	50	60	
		25	60	80	
		28	60	80	
		32	80	100	
		38	80	100	
		45	100	120	
		50	100	120	

M SUJ2  
MoS<sub>2</sub> (embedded)  
H 58HRC~

**LFBZ** (Copper alloy oil-free type)

Copper alloy

Catalog No.	Type	d	L		Base unit price
					1~9 pieces
LFBZ		20	50		Quotation
		22	50	60	
		25	60	80	
		28	60	80	
		32	80	100	

M SUJ2+Copper alloy  
MoS<sub>2</sub> (embedded)  
H 45HRC~ (SUJ2 part)

d	d <sub>1</sub>	d <sub>1</sub> tolerance		ℓ	A	B	E
		MDB	LDB·LFB·LDBZ·LFBZ				
20	31			4	10	6	10
22	34	+0.027 +0.022	0 -0.007				
25	37						
28	42			+0.032 +0.027	0 -0.008	5	12
32	46						
38	54						
45	62	+0.037 +0.032 +0.040 +0.035	0 -0.008	6	15	10	15
50	70						
60	80						

■ Bushing bonding method (Adhesives P.940)

Catalog No.	Adhesive
MDB	—
LDB	Loctite No.638 (LOC638)
LDBZ	
LFB	
LFBZ	

Order **Catalog No.** — **L**  
LFBZ 28 — 80

Days to Ship **Quotation**

Price **Quotation**

Alterations **Catalog No.** — **L(LC)**  
LDB 22 — LC45  
**Quotation**

Alteration	Code	Spec.	1Code
	LC	Full length change Can be used for MDB and LDB only. L/2 ≤ LC < L 1mm increments If cut, the oil groove may be cut.	d20~32 d38~ Quotation

## ■ Long type guide bushings with configurable full length

**LDB** (Loctite adhesive type) **RoHS**

M SUJ2  
H 58HRC~  
A Grease nipple GPA6A

d	d <sub>1</sub>	ℓ	A	B	E	Effective sliding length ℓ <sub>1</sub>	Catalog No.		Base unit price	
							Type	d		
20	31	4	12	7×7 pieces	10	60	LDB	20	51~120	Quotation
22	34							22	61~120	
25	37							25	81~120	
28	42	5	10×5 pieces	80	28	81~150				
32	46				32	101~150				
38	54	6	10×6 pieces	100	38	101~180				
45	62				45	121~180				
50	70				50	121~200				
60	80	60	10×8 pieces	120	60	121~200				

⚠ If there is only one groove remaining as the result of cutting, groove(s) are added so that a minimum of two grooves are present.  
⚠ LC51-59, in the case of d20, effective slide length (ℓ<sub>1</sub>) becomes short.

Order **Catalog No.** — **LC**  
LDB 22 — LC100

Days to Ship **Quotation**

Price **Quotation**

⚠ Do not use a cooling-fit for the bushings. In the same way as with sub-zero treatment, cooling causes residual austenite to transform into martensite and expand. This expands both the bushing inner and outer diameters, rendering the bushing unusable.