

LUB-MET®



SOLID BRONZE SLIDING BEARING, SOLID LUBRICANT, MAINTENANCE-FREE



LUB-MET®

Solid sliding bearing • Solid lubricant pockets in sliding layer • Maintenance-free

We produce all special designs at short notice!

LMZ Cylindrical bushing

LMB Flanged bushing

LMA Thrust washer

LMS Strips

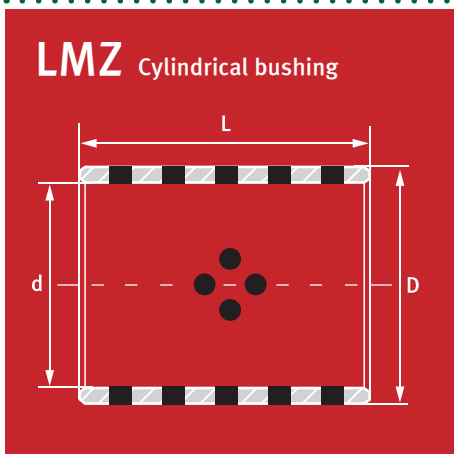
PROPERTIES	For high operational demands (also impact load), oscillating movements, wear-resistant, unsusceptible to dirt, corrosion resistant, long life span.
MATERIALS Standard material*	Standard material Cu Zn25Al5
MATERIAL PROPERTIES ** Specific load capacity static Specific load capacity dynamic Sliding speed Friction value Temperature strain Max. Pv - value Hardness Solid lubricant share	<p>≤ 150 [N/mm²] ≤ 100 [N/mm²] 0,3 - 1,0 [m/s] 0,03 - 0,20 [μ] lubricated / dry -100 - +300 [°C] 1,5 [N/mm² x m/s] 190 - 220 [HB] Approx. 25 - 30 [%]</p>
TOLERANCE DETAILS Housing Bushings delivery condition	H7 Cylindrical bushing: m6/F7, Flanged bushing: r6/E7
SHAFT MATERIAL	The hardness difference to the bearing should be 100HB at least, preferably hardened and dressed to size, surface roughness ≤ R _z 6,3.
MOUNTING ADVICE Housing Shaft	Mounting bevel, min. 1,5 mm x 15-45° Mounting bevel 5 mm x 15°, edges rounded
MAINTENANCE	LUB-MET® is a maintenance-free sliding bearing, but primary lubrication is necessary! Therefore an ageing resistant lithium stiffened grease should be used.

* As a special design additional sliding alloys are available.

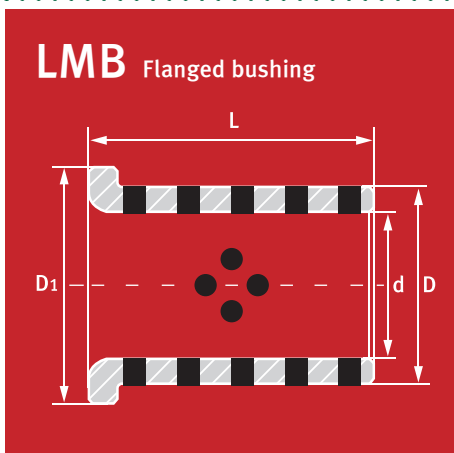
** The above stated material properties are valid for optimal operating conditions. Through changes of the application conditions e.g. higher sliding speed or strain, these values are subject to changes.

German Standard	Scandinavian Standard	American Standard	British Standard	Yield Strength	Tensile Strength	Hardness
CuSn7ZnPb (RG7)	JM1	C93200	1400 LG 2	130	270	75
CuSn10	JM2	C90700	1400 CT1	140	290	80
CuSn12	JM3	C90800	1400 PB2	150	280	95
CuPb15Sn	JM4	C93800	1400, LB1	100	210	65
CuPb10Sn	JM5	C93700	1400, LB2	100	220	65
CuAl10Ni	JM7	C95500	1400 AB2	300	680	160
CuSn10Zn (RG10)	JM12	SAE 62	1400 G1-C (BC3)	140	260	80
CuZn25Al5	JM18	C86300		480	750	190
CuSn5ZnPb (RG 5)	SS5204	C83600	1400 LG2 (BC6)	80	250	65

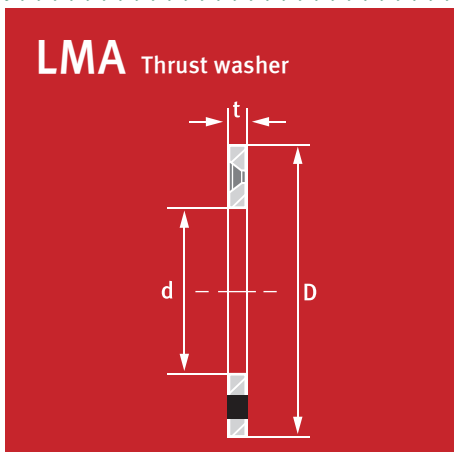
Cylindrical and flanged bushings, thrust washer and strips are standard fabrication.



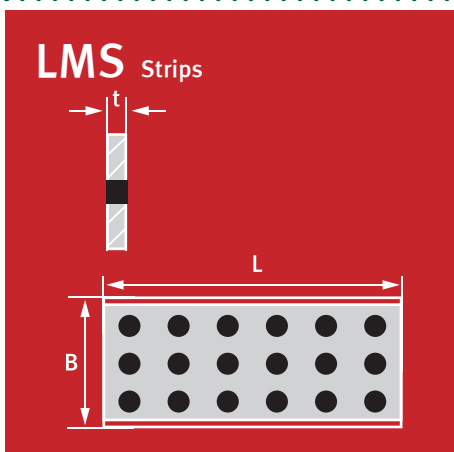
LM	Z	50	65	70
Type (LUB-MET®)	Geometry (Cylindrical bushing)	Inner diameter 50 mm (d)	Outer diameter 65 mm (D)	Length 70 mm (L)



LM	B	50	65	70
Type (LUB-MET®)	Geometry (Flanged bushing)	Inner diameter 50 mm (d)	Outer diameter 65 mm (D)	Length 70 mm (L)



LM	A	30	60	05
Type (LUB-MET®)	Geometry (Thrust washer)	Inner diameter 30 mm (d)	Outer diameter 60 mm (D)	Thickness 5 mm (t)



LM	S	30	70	10
Type (LUB-MET®)	Geometry (Strip)	Width 30 mm (B)	Length 70 mm (L)	Thickness 10 mm (t)

All sizes and measurements are produced to customer's specification.