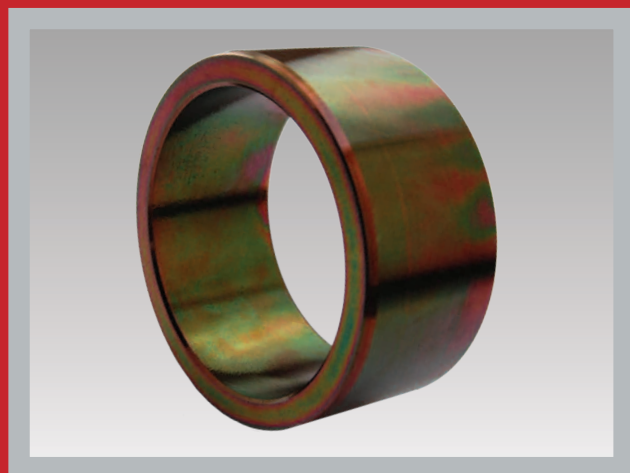


FER-MAN[®]246



LOW MAINTENANCE IMPACT-RESISTANCE STEEL SLIDING BEARING
WITH VERY HIGH SURFACE HARDNESS

FER-MAN[®]259



MAINTENANCE-FREE STEEL BUSHING, SHOCK-PROOF AND IMPACT
RESISTANT, HIGH-BREAKING RESISTANT, ABLE TO ABSORB SHOCK LOADINGS



FER-MAN®246

Impact-resistance steel sliding bearing with very high surface hardness • Heat and corrosion resistant • Maintenance-low • Also maintenance-free available

PROPERTIES	Applicable for higher loads, for avoiding adhesion, non-seizing, restricted abrasionresistance, long-life bushing. Typical applications: e.g. replacement of bronze bearings which need to be lubricated intensively for dirt repellence. Very good for applications for minimum or initial lubricated bearing points with mechanical or/ and thermal stress. Reduction in lubrication frequency compared to bronze.
MATERIAL	Ferrous metal base material with lubrication grooves and special thermochemical treatment.
MATERIAL PROPERTIES*	
Specific load capacity static	≤ 200 [N/mm ²]
Specific load capacity dynamic	≤ 100 [N/mm ²]
Sliding speed	< 0,4 [m/s]
Friction value	0,12 - 0,16 [μ]
Temperature strain	to +400 [C°]
Hardness of the sliding surface	550 - 650 [HV]
Hardness	120 - 180 [HRB]
TOLERANCE DETAILS	
Housing	H7
Shaft tolerance	Specified by the customer (recommended f7)
SHAFT MATERIAL	16 MnCr5 case-hardened or 42 CrMo4V inductive hardened
MOUNTING ADVICE	
Housing	Mounting bevel, min. 1,5 mm x 15-45°
Shaft	Mounting bevel, 5 mm x 15°, edges rounded
Force fitting mandrel	The application of an adequate force fitting mandrel is advisable. Grease lubrication of the outer surface may be necessary when mounting.
MAINTENANCE	Initial and periodical lubrication is necessary.

FNZ Cylindrical bushing

* 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 change.

No stock of this bearing type, all sizes will be produced order related. Special dimensions on request.



FER-MAN® 259

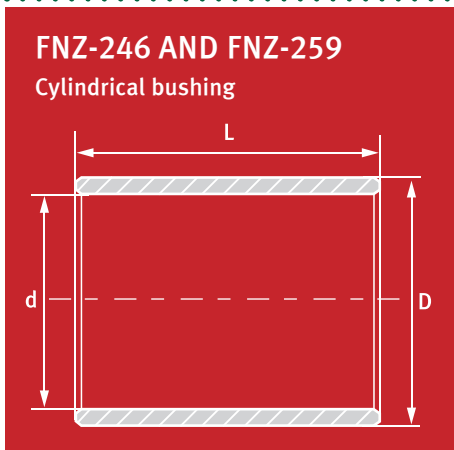
Maintenance-free steel bushing, shock-proof and impact resistant, high breaking resistance, able to absorb shock loadings

- FNZ Cylindrical bushing
- FNB Flanged bushing
- FNA Thrust washer
- FNS Strips

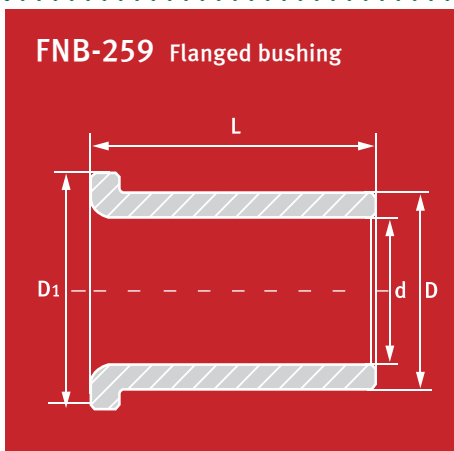
PROPERTIES	With a special surface hardening process a high resistance against wear caused by dust and dirt is achieved. This bushing shows a especially long life-span in applications, where dust and dirt with a particular hardness and abrasiveness is inevitable paired with high dynamic impact loads. Typical applications are clamshell for garbage handling machines and underwater applications, crawler chain links, excavator bucket bushings.
MATERIAL	FeC-Mn base material with structural diamonds or grease grooves in the sliding surface special plasma hardening process
MATERIAL PROPERTIES*	
Specific load capacity static	≤ 150 [N/mm ²]
Specific load capacity dynamic	≤ 50 -60 [N/mm ²]
Sliding speed	< 15 [m/min]
Friction value	0,2 to 0,28 (lubricated 0,12) [μ]
Temperature strain	< +200 (temporary up to 400°C [°C]
Microhardness of surface	380 - 485 [HB]
Hardness	220 [HB]
TOLERANCE DETAILS	
Housing	H7
Shaft tolerance	Specified by the customer (recommended h9)
SHAFT MATERIAL	42 CrMo4V induction hardened, 54-57 HRC, 2-4 mm deep
MOUNTING ADVICE	
Housing	Mounting bevel, min. 1,5 mm x 15-45°
Shaft tolerance	Mounting bevel, 5 mm x 15°, edges rounded
Force fitting mandrel	The application of an adequate force fitting mandrel is advisable. Grease lubrication of the outer surface may be necessary when mounting.
MAINTENANCE	Lubrication is not necessary! Special steel 259 is a maintenance-free bushing material

* 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 change.

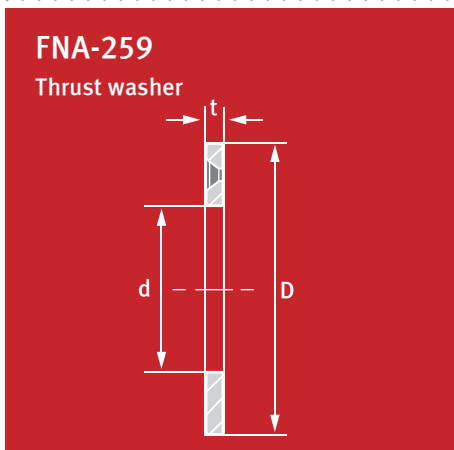
**This bearing type is only available as manufacture of new articles, no ex-stock.
All special designs are available at short notice!**



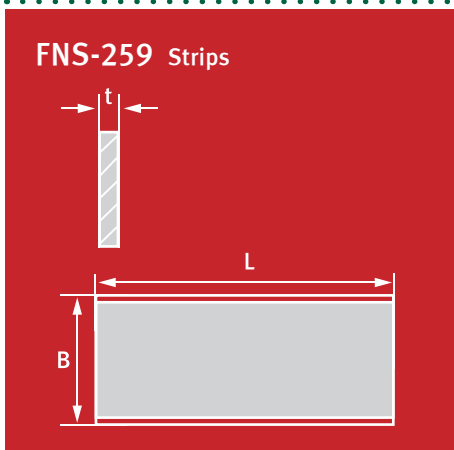
FN	Z-246	50	65	70
FN	Z-259	50	65	70
Type (FER-MAN®246) Type (FER-MAN®259)	Geometry (Cylindrical bushing)	Inner diameter FER-MAN®246 50 mm (d) Inner diameter FER-MAN®259 50 mm (d)	Outer diameter FER-MAN®246 65 mm (D) Outer diameter FER-MAN®259 65 mm (D)	Length FER-MAN®246 70 mm (L) Length FER-MAN®259 70 mm (L)



FN	B-259	50	65	70
Type (FER-MAN®259)	Geometry (Flanged bushing)	Inner diameter FER-MAN®259 50 mm (d)	Outer diameter FER-MAN®259 65 mm (D)	Length FER-MAN®259 70 mm (L)



FN	A-259	30	60	05
Type (FER-MAN®259)	Geometry (Thrust washer)	Inner diameter FER-MAN®259 30 mm (d)	Outer diameter FER-MAN®259 60 mm (D)	Thickness FER-MAN®259 5 mm (t)



FN	S-259	30	70	10
Type (FER-MAN®259)	Geometry (Strip)	Width FER-MAN®259 30 mm (B)	Length FER-MAN®259 70 mm (L)	Thickness FER-MAN®259 10 mm (t)

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