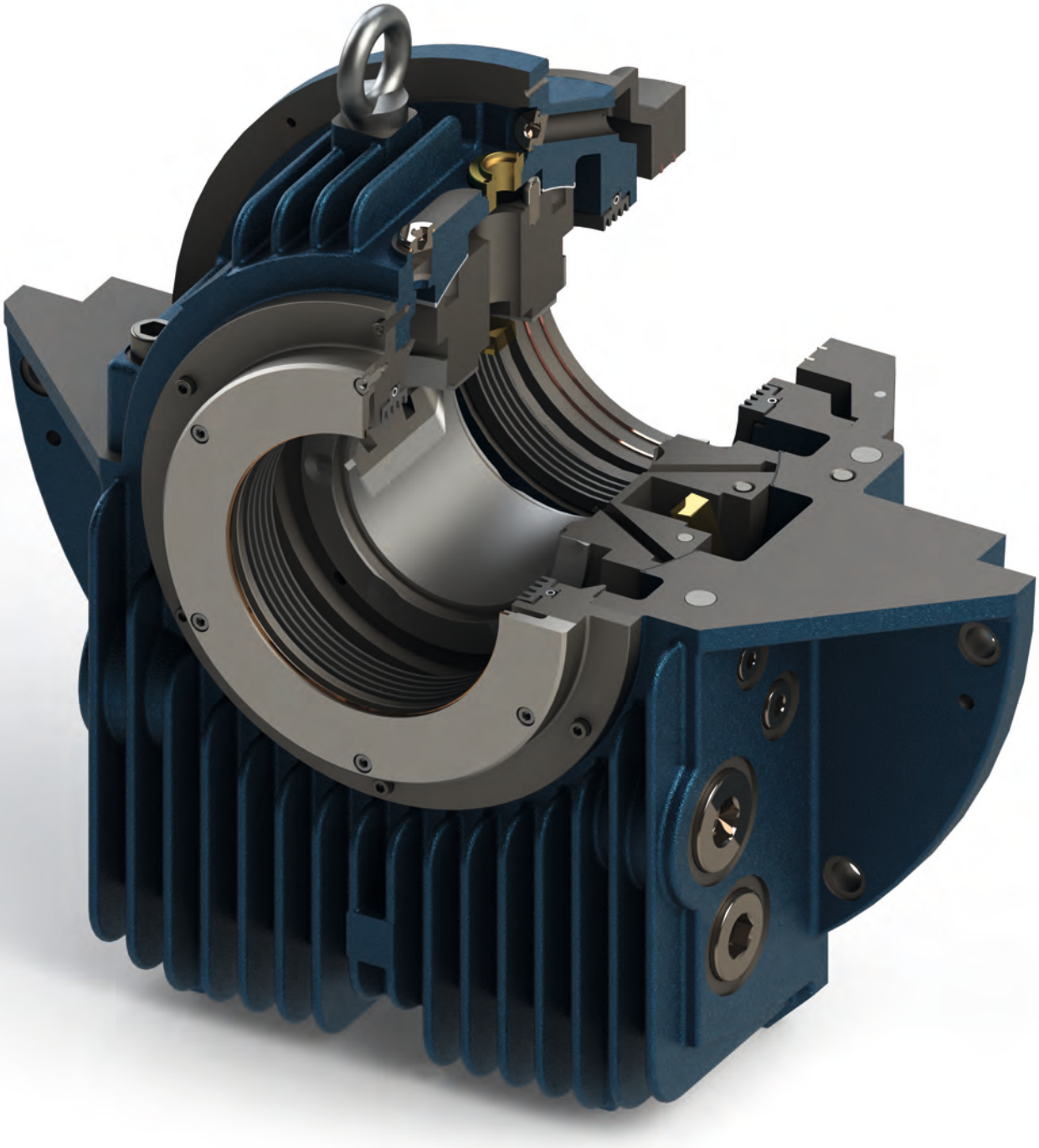
Innovation in Motion

Miba Industrial Bearings
ZM Center Flange Mounted Bearing



Miba Industrial Bearings

The Industrial Bearing Branch of the Miba Bearing Group produces hydrodynamic bearings and labyrinth seals for use in mechanical and plant engineering which are used in a wide range of high-performance applications.
Our highly inspired teams, work diligently to serve our customers the best bearing solutions for each and every application.

Content

Description of the ZM design

The Miba type ZM horizontal bearing is designed according to DIN 31 694 norm specifications for a wide range of heavy duty applications (electrical machines, turbines and test rigs). The modular system applies to the different types of bearings (pedestal, end flange and center flange), i.e. it is always possible to combine different modules of this system. Thus, assembly is simple and mistakes due to the positioning of screws and pins are avoided during installation, commissioning and maintenance procedures.

Housing
The bearing housings are finned and manufactured from nodular cast iron EN-GJS-400-15 (formerly GGG 40) giving high strength. Upon request, they can be supplied in gray cast iron EN-GJL-300 (formerly GG 30) or in nodular cast iron EN-GJS-400-18-LT (formerly GGG 40.3). The spherical seat in the housing ensures easy alignment during assembly and the loads are evenly distributed into the lower part of the housing. Therefore, these bearings are designed for highest stress applications. Thread holes for monitoring the temperature, for oil inlet and outlet, as well as for oil level, are provided on both sides of the housing as standard. The housing comes with an oil sight glass on one side. The opposite side is supplied plugged and may be used as an oil outlet. If needed, their positions can be exchanged by reversing these parts.

In the top half of the housing, a sight glass, which permits the loose oil ring to be viewed, and a plugged manual oil feeder are provided. The basic design can be easily amended, if required, to incorporate water cooling tubes, oil sump heater, vibration detectors (angled at 45°), horizontal, vertical and axial vibration sensors and earthing devices. Upon request, thread holes can be provided in the ZM housing to meet all 541 and 546 requirements for API norms.

Bearing shells
The shell is supplied in halves and spherically seated in the housing, ensuring easy self-alignment during assembly. The material is low carbon steel, lined with high tin-based white metal. This construction ensures an easy assembly and a long life cycle. Bearing shells with plain cylindrical bore and loose oil ring are used in most cases, but other shapes of bore are possible. When the specific load on start-up is too high, or for very slow-speed applications, a hydrostatic jacking system can be incorporated. Bearing shells can be provided with or without thrust faces.

Oil supply
Fully self-contained lubrication is achieved by using a loose oil ring. Alternatively, where bearings are lubricated by an external oil circulation system, this loose oil ring can be used to permit an emergency shutdown without damage in case an oil system failure occurs. Z-bearings can be used for marine applications, where an oil ring guide assures proper lubrication even if extreme vessel motions occur.

Q-type shells have no thrust capability for non-locating bearings.

B-type shells with plain white metal lined shoulders with oil grooves are suitable for small, temporary thrust loads.

K-type shells have taper land faces for medium thrust loads and both directions of rotation.

D-type shells, with taper land faces suitable for only one direction of rotation, are capable of absorbing higher thrust loads.

A-type shells, for the highest loads, are equipped with thrust tilting pads.

Electrical insulation
To prevent stray currents conducted by the shaft, Z-bearings can be supplied electrically insulated as an option. In this case, the spherical seat of the housing is coated with a wear-resistant and temperature-resistant synthetic material. Upon request, a grounding wire is provided to short out this insulation, passing through a thread hole (M12x1.5) in the housing.

Sealing
The seals are selected for the different operation conditions and environments and for the requested protection level. The standard arrangement is the floating labyrinth seal (IP 44) made of high heat resistant, fiber-reinforced synthetic material. Bearings for high oil throughput are equipped with adjustable rigid seals (IP 44) made of aluminium alloy. Both types of seals can be equipped with bolt-on baffles (IP 55) or dust flingers (IP 54) if the bearing is operating in a dusty or a wet environment, or if rotating parts (clutches, couplings, fans etc.) are fitted close to the bearing. Special seals offering higher protection, or pressurized seals etc., can be supplied for special applications upon request. An end cover is used when the end of the shaft is inside the bearing housing.

Temperature control
Provisions for the fitting of thermo sensors in the journal bush and oil sump are provided as standard. The type of sensor to be used depends on the type required by the readout equipment used (direct reading, centralized control system, recording instrument, etc.). For bearings with high thrust loads, additional thermometers for the thrust part can be integrated.

Machine seal
Where negative or positive pressures occur near the internal floating seals ZM bearings should be used with an additional machine seal to avoid interference from inside the machine. This machine seal is fitted to the machine side of the bearing assembly, creating a chamber between the machine seal and the bearing seal. To equalize the pressure, the chamber is connected to atmosphere, which prevents oil leakage from the bearing into the machine enclosure.

Selection of oil
It is recommended that any branded mineral oil which is inhibited against foaming, ageing and oxidation is used as lubricant. The viscosity is suggested by Miba if the customer doesn`t have preferences.

Bearing calculation
Miba uses a state of the art calculation program which can provide the following outputs:

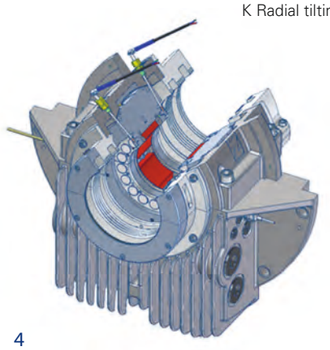
- Minimum oil film thickness
- Maximum hydrodynamic pressure
- Maximum bearing temperature
- Oil outlet temperature
- Minimum permissible oil flow
- Frictional power loss
- Stiffness and damping coefficients
- Clearance for bearing / shaft seat

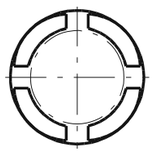
Radial bore profile selection

The radial bore profile type selection depends on several conditions. Among them we have the circumferential speed and the specific pressure. The following table should help in a preliminary selection.

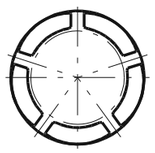
1 // Type of radial bearing bore profile

Type of bore	Circumferential speed U (m/s)	Specific load p (MPa)
C/L/F Cylindrical	0 … 30	0 … 4
Y Two-lobe	25 … 75	0 … 3
V Four-lobe	25 … 100	0 … 2
K Radial tilting pads	15 … 100	0 … 2





4 tilting pads



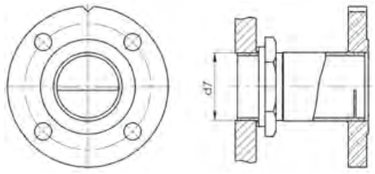
5 tilting pads

- MIBA housing bearings of all sizes 9 - 45 can be provided with tilting pad journal bearings for the highest demands
- Very high load capacity at highest circumferential speeds up to 100 m/s
- Highest stability properties

Oil flow

Z-bearings are supplied without oil inlet or outlet flanges. Upon request, as additional items, Miba can supply these flanges according to DIN 2573 or ANSI B16.5 norms. Oil outlet flanges with weir are to be mounted with the weir horizontal at the bottom. The mark on the flange will then be visible in the center of the top side.

Larger oil quantities with special outlets on request.



1 // Oil Flow

Size	Oil outlet thread Std	Maximum flow for oil ISO VG 32 and 46 at 40°C (l/min)	Maximum flow for oil ISO VG 68 and 100 at 40°C (l/min)	Oil outlet thread enlarged*	Maximum flow for oil ISO VG 32 and 46 at 40°C (l/min)	Maximum flow for oil ISO VG 68 and 100 at 40°C (l/min)
7	G1 (DN 25)	7	5	-	-	-
9	G1 ¼ (DN 32)	9	7	-	-	-
11	G1 ¼ (DN 32)	9	7	-	-	-
14	G1 ½ (DN 40)	11	9	G2 (DN 50)	18	16
18	G1 ½ (DN 40)	11	9	G2 (DN 50)	18	16
22	G2 (DN 50)	18	16	G2 ½ (DN 65)	28	25
28	G2 ½ (DN 65)	28	25	G3 (DN 80)	42	35

* nonstandard enlarged oil outlet threads for bigger oil quantity applications, upon request. Additional cost will be applied.

Radial and axial loads

1 // Radial and axial loads

Size	Diameter (mm)	F_{Radial} (N) - Type			F_{Axial} (N) - Type			
		L, C, F	Y	V/K	B	K	D	A
7	60	12.000	9.000	6.000	540	1.660	-	-
	70	14.000	10.500	7.000	620	1.940	-	-
	80	16.000	12.000	8.000	700	2.210	-	-
9	80	19.648	14.736	9.824	860	3.430	4.940	9.680
	90	22.104	16.578	11.052	950	3.840	5.600	11.060
	100	26.000	19.500	13.000	1.050	4.110	6.250	6.840
11	100	32.560	24.420	16.280	1.190	4.740	7.320	11.060
	110	35.816	26.862	17.908	1.570	6.220	9.750	12.450
	125	42.500	31.875	21.250	1.460	5.730	9.190	7.520
14	125	52.700	39.525	26.350	1.940	7.650	11.760	23.860
	140	59.024	44.268	29.512	2.500	10.040	15.380	26.510
	160	68.096	51.072	34.048	2.050	7.970	12.730	16.590
	180	76.608	57.456	38.304	2.290	9.680	14.370	-
18	160	86.848	65.136	43.424	3.080	12.420	18.340	46.300
	180	97.704	73.278	48.852	3.860	15.580	23.490	51.440
	200	112.320	84.240	56.160	3.280	12.890	20.110	32.990
	225	126.360	94.770	63.180	3.650	15.570	22.750	-
22	200	134.800	101.100	67.400	4.500	17.410	27.210	79.170
	225	151.650	113.738	75.825	5.000	19.280	30.640	87.970
	250	175.700	131.775	87.850	5.500	22.280	34.170	65.470
	280	196.784	147.588	98.392	6.100	26.570	38.350	54.980
	300	210.840	158.130	105.420	4.300	18.230	26.320	-
28	250	213.200	159.900	106.600	6.500	26.770	39.280	123.710
	280	238.784	179.088	119.392	7.190	30.050	44.110	137.450
	300	262.200	196.650	131.100	7.660	31.720	47.330	105.560
	315	275.310	206.483	137.655	8.000	34.080	49.810	96.510
	335	292.790	219.593	146.395	8.470	30.860	53.030	74.820
	355	310.270	232.703	155.135	5.750	20.890	28.050	40.220

Please note: The loads presented within the table are values for a preliminary dimensioning of the bearing size.
We recommend a specific bearing calculation to review the bearing dimensions selected.

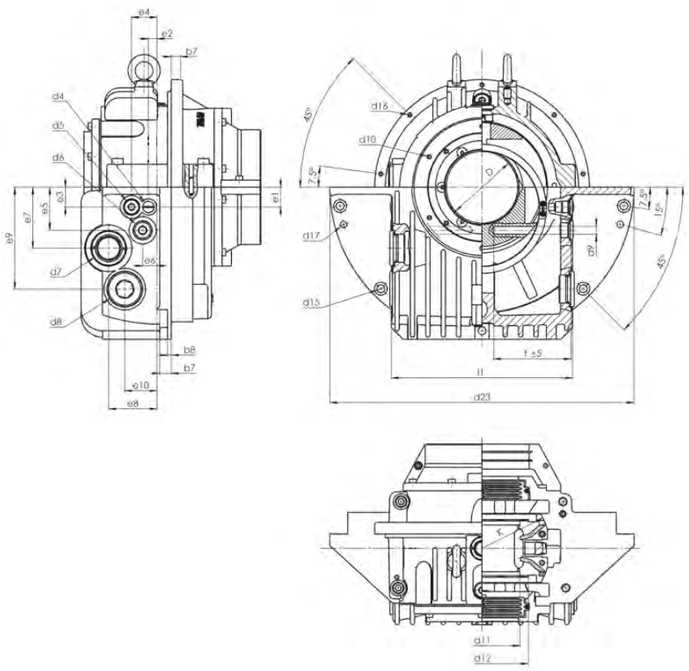
ZM bearing dimensions

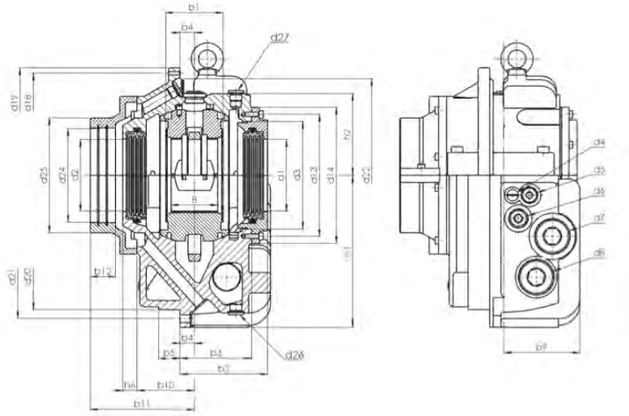
1 // ZM bearing dimensions

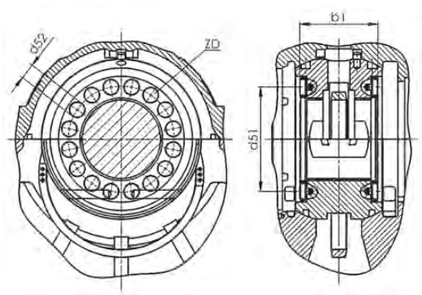
Size	D (H7)	B	b1	b2	b3	b4	b5	b6	b7	b8	b9	b10	b11	b12	d1 nom. size seal (optional)	d2	d3	d5	d7	d10	d11	d12	d13	d14	d15	d16	d18	d19	d20 (h8)	d21	d22	d23	d24	d25	d51	d52	e1	e2	e3	e4	e5	e6	e7	e8	e9	e10	h1	h2	l1	t ±5	dia. Ø K	ZD tilting pads per side	appr. weight (kg)	appr. oil content (l)
	60	50,0																			66	86										90																93				
7	70	50,0	60	101	79	20	15	22	10	5	86	59	115	25	60/70 80/90	80	130	G ¼	G 1	6 x M6	96	96	150	170	11	M6	250	265	300	325	235	350	100	135	-	-	24	6	24	26	45	15	70	48	125	30	175	98,5	206	93	140	-	32	1
	80	50,0																			106	106										110																83				
	80	61,4																			86	110										110		110	20												104			14	
9	90	61,4	80	122	100	20	30	20	16	5	106	80	145	35	80/90 100/110	100	150	G ⅜	G 1 ¼	6 x M6	96	120	170	190	11	M6	285	300	375	400	270	425	120	160	120	20	27,5	12	27,5	35,5	60	20	85	67,5	142	45	212	114	250	104	190	16	58	2,2
	100	65,0																			106	130										130		125	16												104			20	
	100	81,4																			108	135										135		135	20												130			16	
11	110	81,4	100	137	115	20	30	20	18	3	122	95	160	35	100/110 125/140	125	180	G ⅜	G 1 ¼	6 x M6	118	150	195	215	14	M6	340	355	450	475	320	500	150	190	140	20	25	15	35	42	70	22,5	100	70	167	55	250	132	300	130	212	18	87	4
	125	85,0																			133	160										160		150	16												125			22	
	125	105,4														160					135	170										170		165	25												157			18	
	140	105,4														160					150	190										190		180	25												157			20	
14	160	106,4	125	159,5	137,5	25	30	22,5	20	5	144	112,5	185	35	125/140 160/180	160	230	G ⅜	G 1 ½	6 x M6	170	200	270	290	18	M6	400	425	530	560	380	600	200	250	195	20	30	27,5	45	55	85	27,5	125	85	200	70	300	167	355	135	280	24	150	6,3
	180	106,4														180					190	220										220		-	-												123			-	
	160	135,7														200					172	215										215		210	31,5												189			18	
	180	135,7														200					192	240										240	270	230	31,5												189			20	
18	200	140,4	160	179,5	157,5	25	30	17,5	25	6	165	132,5	210	40	160/180 200/225	200	275	G ½	G 1 ½	8 x M8	212	250	320	340	22	M8	475	500	630	670	450	710	250	300	245	25	35	30	60	68	105	30	155	80	240	80	355	195	425	168	335	24	230	9,5
	225	140,4														225					237	275										275		-	-												143			-	
	200	168,5														250					214	265										265		265	40												242			18	
	225	168,5														250					239	290										290	335	285	40												242			20	
22	250	175,7	200	219,5	197,5	30	30	17,5	30	8	200	167,5	245	40	200/225 250/280 300	250	340	G ¾	G 2	8 x M8	264	315	380	400	26	M10	600	630	800	850	570	900	315		305	31,5	40	35	70	83	135	40	175	100	310	100	450	251	530	226	425	24	425	22,5
	280	175,7														300					294	345										345	390	320	25												188			32	
	300	175,7														300					310	345										345		-	-												174			-	

Dimensions in millimeters / Dimensions not shown see page 8

d4 = Earthing device or plug M12x1,5
d5 = Oil inlet (oil circulation or recirculating pump)
d6 = Provision for thermometer G 1/2“
d7 = Oil sight glass or oil outlet (oil circulation)
d8 = Plug (connection for heater, oil sump thermometer, water cooler)
for size 7: G 1/2“
for size 9- 22: G 1 1/4“
d9 = bearing size 7: Ø8, up to 14: Ø11, from size 18: Ø13
d17 = Bore for dowel pins Ø9
d26 = Oil drain plug
for size 7: G 1/4“
for size 9 and 11: G 3/8“
for size 14 and 18: G 1/2“
for size 22: G 3/4“
d27 = Oil filling or breather
for size 7: G 1/4“
for size 9 and 11: G 3/8“
for size 14 and 18: G 1/2“
for size 22: G 3/4“
t = Depth of thermometer bore







Thrust face type A

Drawings shown here are for reference only. Some fin details, for example, may vary from size to size.

ZM 28 bearing dimensions

Miba has completely revised the ZM 28 housing design to meet market needs in several aspects, improving bearing performance, extending design limits and facilitating assembly, whilst maintaining the equipment interface as in the previous design. This means that machine flange and bolt circle dimensions are the same as before. The Miba bearing liner remains unmodified and is still interchangeable with those of our competitors. The tried and tested Miba machine seal which has air passages for pressure compensation passing through the body from the internal chamber to the outside of the housing, remains unchanged. The convective cooling ability of the bearing has been improved by increasing the heat exchange surface and using a different material. The new housing design has larger and additional fins, and is now made in grey cast iron EN-GJL-300 (formerly GG 30), although upon request it can be made in nodular cast iron.

Previous design limits have now been extended. The maximum axial play has been increased to +/- 8 mm. Upon request, minimal alterations to the shaft standard design can be made to achieve +/- 14 mm.
The new design makes it possible to combine more different sizes and types of internal seal, as the carrier is now bolted onto the housing (as with the outer seal) and is therefore completely independent of the machine seal.

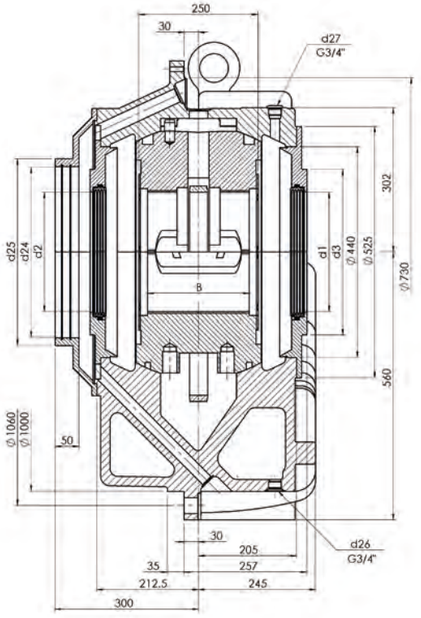
A wider range of oil outlet sizes and types (for example SAE flange) is now possible.

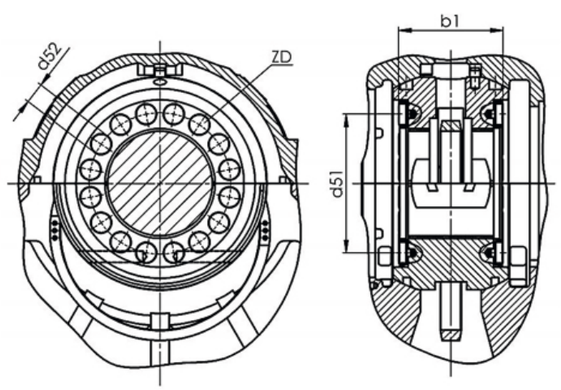
A direct oil flow can be supplied to the interior of the bearing (for example axial oil supply). It is no longer necessary to pass through the machine shield.

The oil return drain from the floating seal has been enlarged and now has the form of a conical slot instead of a simple drill-hole. The housing slots between the liner and the seal have also been enlarged in this way to further improve oil return to the sump.

Surfaces for placing tapped holes for shaft vibration sensors (2 x 45°) and for monitoring the housing vibration are now cast onto the housing.

Please note that the position of the outlet pipeline and the length of the thermal sensor have also been changed in the new housing design.



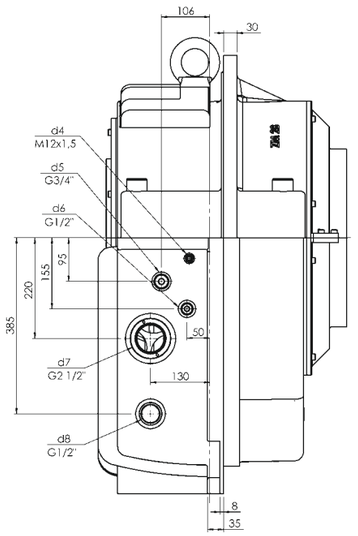


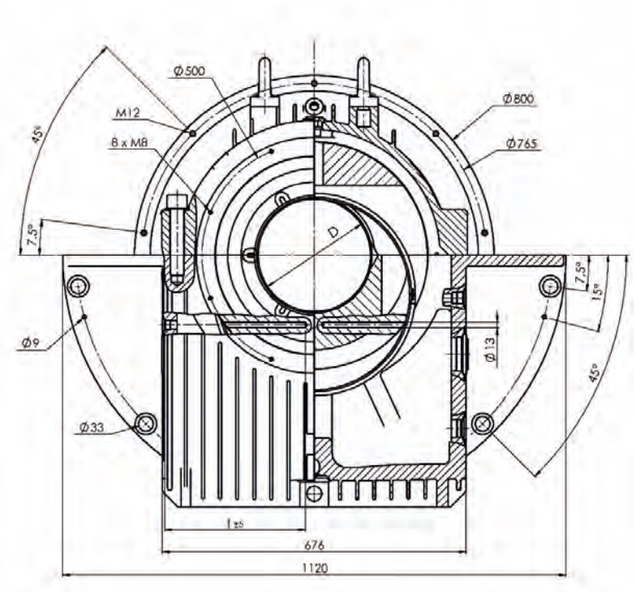
Thrust face type A

ZM 28 bearing dimensions

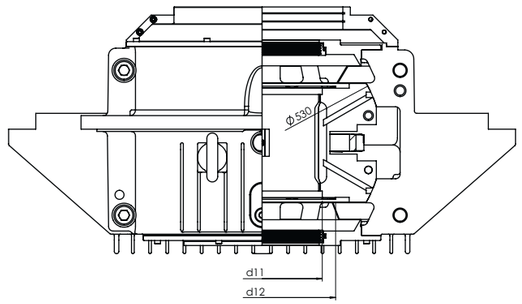
1 // ZM 28 bearing dimensions

Size	D (H7)	B	d1 nom. size seal (optional)	d2 nom. size seal (optional)	d3	d24	d25	d11	d12	d51	d52	t ±5	ZD tilting pads per side	appr. weight (kg)	appr. oil content (l)
28	250	213,2	250/280 300/315 355	250/280 300/315 355	346	325	390	266	325	325	50	312	18	800	45
	280	213,2				355		296	355	355	50	312	20		
	300	218,5				375		316	375	365	40	262	24		
	315	218,5				390	425	331	390	380	40	257	24		
	335	218,5			410	395		351	410	380	31,5	232	30		
	355	218,5				395		371	430	-	-	219	-		





d4 = Earthing device or plug
d5 = Oil inlet (oil circulation or recirculating pump)
d6 = Provision for thermometer
d7 = Oil sight glass or oil outlet (oil circulation)
d8 = Plug (connection for heater, oil sump thermometer, water cooler)
d26 = Oil drain plug
d27 = Oil filling or breather
t = Depth of thermometer bore



Additional customised thread holes can be supplied upon request.

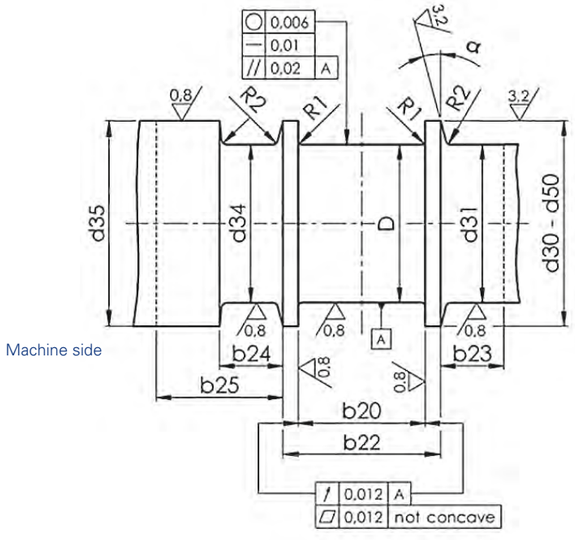
Dimensions of shaft

1 // Dimensions of shaft

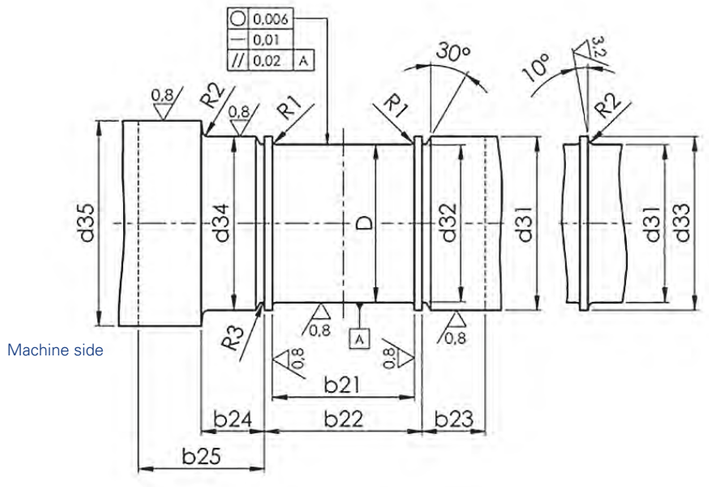
Size	D [1]	b20 [2] (± 0,1)	b21 [3]	b22	b23 [4]	b24	b25	d30	d31 (e8) d32	d33	d34 (e8)	d35 [5] (e8)	d50	R1 [6]	R2 [6]	R3
7	60	60,4	67	75	51,5	51,5	85,5	86	60 / 70 / 80 / 90	70	80	90	-	2	2	1,5
	70							96		80		100				
	80							106	- / 64 / 74 / 84	90		110				
9	80	80,4	90	100	55	60	95	110	80 / 90 / 100 / 110	90	100	110	132	2,5	4	1,6
	90							120		100		120	142			
	100							130	- / 80 / 90 / 100	110		130	143			
11	100	100,4	110	120	60	65	105	135	100 / 110 / 125 / 140	110	125	135	157	2,5	4	1,6
	110							150		125		150	162			
	125							160	- / 100 / 110 / 125	140		160	168			
14	125	125,4	140	150	65	75	115	170	125 / 140 / 160 / 180	140	160 / (180)	170	192	4	6	2,5
	140							190		160		190	207			
	160							200	- / 125/ 140 / 160	180	180	200	217			
	180							220		200		220	-			
18	160	160,4	180	190	65	75	120	215	160 / 180 / 200 / 225	180	200 / (225)	215	244	4	6	2,5
	180							240		200		240	264			
	200							250	- / 160 / 180 / 200	225	225	250	273			
	225							275		250		275	-			
22	200	200,4	220	240	75	80	130	265	200 / 225 / 250 / 280 / 300	225	250 / (280) / (300)	265	308	6	10	4
	225							290		250	250 / (280) / (300)	290	328			
	250							315		280	250 / (280) / (300)	315	339			
	280							345	- / 200 / 225 / 250 / 280	310	280 / (300)	345	348			
	300							345		330	300	345	-			
28	250	250,4	280	300	90	90	155	325	250 / 280 / 300 / 315 / 335 / 355	280	250 /(280) / (300) / (315) / (335) / (355)	325	378	6	10	6
	280							355		310	280 / (300) / (315) / (335) / (355)	355	408			
	300							375		330	300 / (315) / (335) / (355)	375	408			
	315							390		345	315 / (335) / (355)	390	423			
	335							410	- / 250 / 280 / 300 / 315 / 335	365	335[7] / (355)	395	414			
	355							430		385	355	395	-			

[1] Limit dimensions of the shaft acc. DIN 31 698, form and positional tolerance and surfaces roughness acc. to DIN 31 699.
[2] Standard thrust clearance is 0,5 mm. If reversible thrust loads or shock load occur, dimension b20 can be reduced by 0,2 mm. If a locating bearing (shell type B,K) is needed only for test runs, dimension b20 can be enlarged by 4 up to 6 mm.
[3] If the non-locating bearing must allow larger motions (due to heat expansion or to large thrust clearances caused by the unit), dimension b21 can be enlarged.
[4] The dimension b23 is valid for a bearing with a floating labyrinth seal.
[5] The dia d35 can be combined with every shell of dia D within one size.
[6] The radii R1 and R2 can be replaced by a plunge cut acc. to DIN 509.
[7] Only available as rigid seal type.

For locating bearing shell
Z...B (d30; α=10°)
Z...K (d30; α=10°)
Z...D (d30; α=10°)
Z...A (d50; α=15°)



For non-locating bearing shell
Z...Q

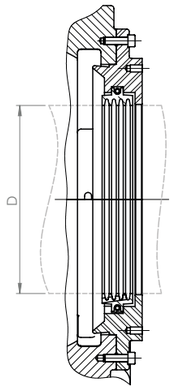


Drawing dimensions in millimeters

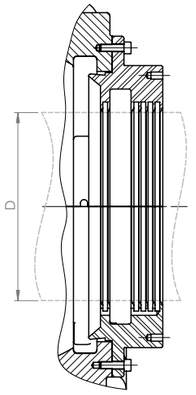
Types and dimensions of seals

1 // Types and dimensions of seals

Size	D	b26	b27	b28	b29	b30	b31	b32	d3	d14	d36	d37	d38	d39	d40
7	60 70 80 90	20	21	31	21	12	8	21,5	130	170	135	135	128	135	135
9	80 90 100 110	20	29	39	27	14	8	21,5	150	190	155	155	148	155	155
11	100 110 125 140	20	31	41	27	16	8	21,5	180	215	180	180	178	155 180	155 180
14	125 140 160 180	20	33	43	27	18	8	21,6 26,5	230	290	240	240	228	180 240	180 240
18	160 180 200 225	25 20	36	46	27	21	8	26,5	275	340	240 280	240 280	273	240 280	240 280
22	200 225 250 280 300	30	39	49	27	24	8	26,5 31,5	340	400	280 346	280 346	338	280 346	280 346
28	250 280 300 315 335 355	35	43	53	27	27	10	31,5	440	525	346 410	346 410	438	346 410	346 410

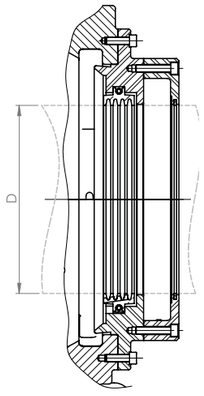


Floating labyrinth seal
(Protection IP 44)

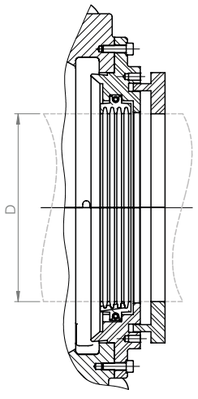


Rigid seal*
(Protection IP 44)

*Can be combined either
with a bolt-on baffle (IP 55)
or with a dust flinger (IP 54).

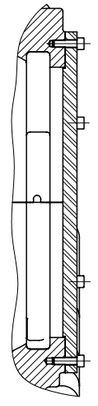


Floating labyrinth seal
with bolt-on baffle
(Protection IP 55)



Floating labyrinth seal
with dust flinger
(Protection IP 54)

Max. axial movement of
the dust flinger ± 6,5mm
(Meets NEMA spec.)



End cover

Special seal designs for specific applications upon request.

Bearing types and designations

Z	M				–		–	
1	2	3	4	5		6		7

1 // Type

Z	Miba plain bearing

2 // Housing

M	Centre flange mounted bearing, finned

3 // Heat dissipation

N	Naturally cooled by convection
Z	Lubrication by oil circulation with external oil cooling
X	Lubrication by oil circulation with external oil cooling for high oil throughput
W	Finned water cooler in the oil sump
U	Recirculating oil pump and natural cooling
T	Recirculating oil pump and water cooler in the oil sump

4 // Shape of bore and type of lubrication

C	Plain cylindrical bore without oil ring
L	Plain cylindrical bore with loose oil ring
F	Plain cylindrical bore with oil disk
Y	Two-lobe bore without oil ring
V	Four-lobe bore without oil ring
K	Journal tilting pads without oil ring

5 // Geometry of thrust bearing

Q	Without thrust capability
B	Plain white metal lined shoulders with oil grooves
K	Tapered land thrust faces for both sense of rotation
D	Tapered land thrust faces for one sense of rotation
A	Round tilting thrust pads, cup spring supported

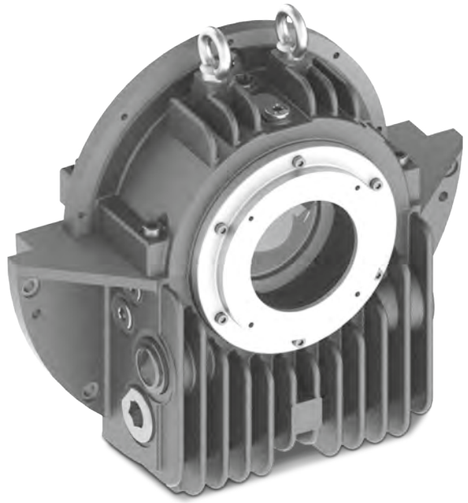
6 // Size

7 // Shaft diameter (mm)

Example of a bearing designation:

Z M N L B - 11 - 125

Miba Centre flangemounted bearing, finned bearing, naturally cooled by convection, plain cylindrical bore with loose oil ring, plain White metal lined shoulders with oil grooves (locating or non-locating bearing), size 11, for shaft diameter 125 mm.



ZF - End flange mounted bearing
The Miba type ZF horizontal bearing is designed acc. to DIN 31 693 norm specifications for a wide range of heavy duty applications (electrical machines, turbines and test rigs)

ZR - Pedestal bearing
The Miba type ZR horizontal bearing is designed acc. to DIN 31 690 norm specifications for a wide range of heavy duty applications (electrical machines, turbines, blowers and test rigs)

Checklist

- ☐ Operating conditions for calculation complete?
- ☐ Certification necessary (Lloyd`s, RINA…)?
- ☐ Atex class?
- ☐ Watercooler required?
- ☐ Hydrostatic oil supply required?
- ☐ Oil inlet or outlet flanges required (flange DIN)?
- ☐ Connecting diagram filled out?
- ☐ Electrical insulation required?
- ☐ Earthing device required?
- ☐ Protection class specified?
- ☐ Sealing type and diameter (outside)?
- ☐ Sealing type and diameter (inside)?
- ☐ Sealing diameter of machine seal?
- ☐ Shaft drawing available?
- ☐ Shaft vibration sensors required (thread…)?
- ☐ Speed sensor required (thread…)?
- ☐ Absolute vibration sensor required (position, thread…)?

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