

Mill Neck Bearings Type WH

Diameter Range 450...1750 mm

Mill neck bearings type WH are journal bearings with or without thrust capability and with permanent hydrostatic support. They are used in slow-running horizontal mills, mostly in ball mills.

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Applications

Mill neck bearings type WH are successfully applied in horizontal ball mills. Their robustness and longevity make them an excellent choice in many horizontal milling applications.

Materials

The bearing shells are made of a steel body, lined with a babbitt layer. The housings are welded steel constructions.

Seals

A rotating ring on the shaft in combination with a lip seal prevents oil leakage from the bearings and dust and dirt from entering it.

Alignment Support

A narrow seat of the shell on the base frame ensures a limited capacity to compensate for axial misalignments of the bearing with respect to the shaft.

Special Designs

Modifications to the bearings of the WH series are available to optimally suit your machine design and application. The majority of WH bearings is specially adapted to the customers' specifications.

Oil Supply

Oil lubrication and cooling has to be achieved through an external oil circulation system. Hydrostatic support is usually switched on at all times during operation.

Heat Dissipation

The friction heat is dissipated by convection via the external oil circulation system.

Temperature Control

Provisions for temperature measurements in shell and oil sump are available on both sides of the bearings. Additional measurement provisions are available on request. Temperature readings may help in determining bearing failure when evaluating transient temperature changes.

Bearing Selection

Calculation software based on E DIN 31652 for bearing pre-selection is available on request. Specified load cases will be calculated by GTW with specialized calculation software able to model bearing behaviour more precisely.

Designation of Bearing Types

1.) Manufacturer

W Gleitlagertechnik Weißbacher GmbH

2.) Type

H Mill neck bearing

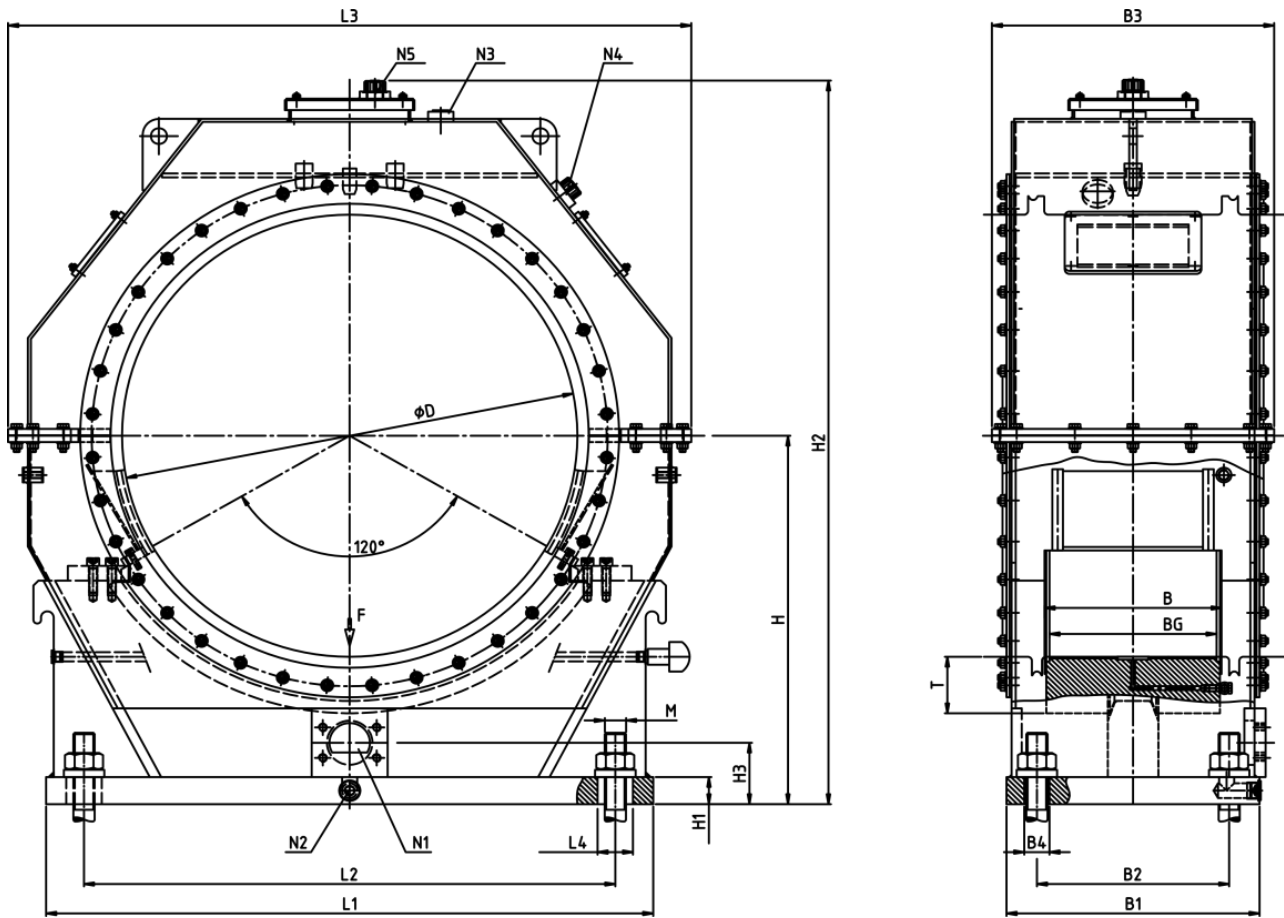
3.) Size

4.) Nominal bearing diameter

Example Mill neck bearing size 140 for shaft diameter 1400

Slide bearing WH140-1400

Dimensions of Bearings Type WH



Size	D	m [kg]	B max.	BG max.	B1	B2	B3	B4	H	H1	H2	H3	L1	L2	L3	L4	M	N1 SAE	N2	N3	N4	N5
50	from 450 to 550	480	225	209	380	270	465	38	500	45	990	90	800	690	890	60	M30	2.5"	G¾	G¾	G1	G1
60	from 551 to 700	675	275	259	425	320	485	44	600	45	1180	105	900	800	1080	65	M36	2.5"	G¾	G¾	G1	G1
80	from 701 to 900	1270	350	330	500	380	560	50	750	55	1475	125	1200	1050	1380	70	M42	3"	G1	G1	G1	G1
100	from 901 to 1100	1820	450	430	620	480	690	50	850	55	1675	125	1340	1200	1560	75	M42	3"	G1	G1	G1	G1
120	from 1101 to 1300	3070	540	520	720	580	800	58	1050	75	2000	170	1480	1340	1790	80	M48	4"	G1¼	G1	G1½	G1
140	from 1301 to 1500	3860	630	610	840	680	900	66	1150	75	2225	170	1580	1430	2000	86	M56	4"	G1¼	G1	G1½	G1
170	from 1501 to 1750	7000	850	820	1080	900	1140	66	1350	75	2575	175	1860	1690	2300	86	M56	5"	G1½	G1½	G1½	G1

All dimensions in mm

We reserve the right to introduce modifications

