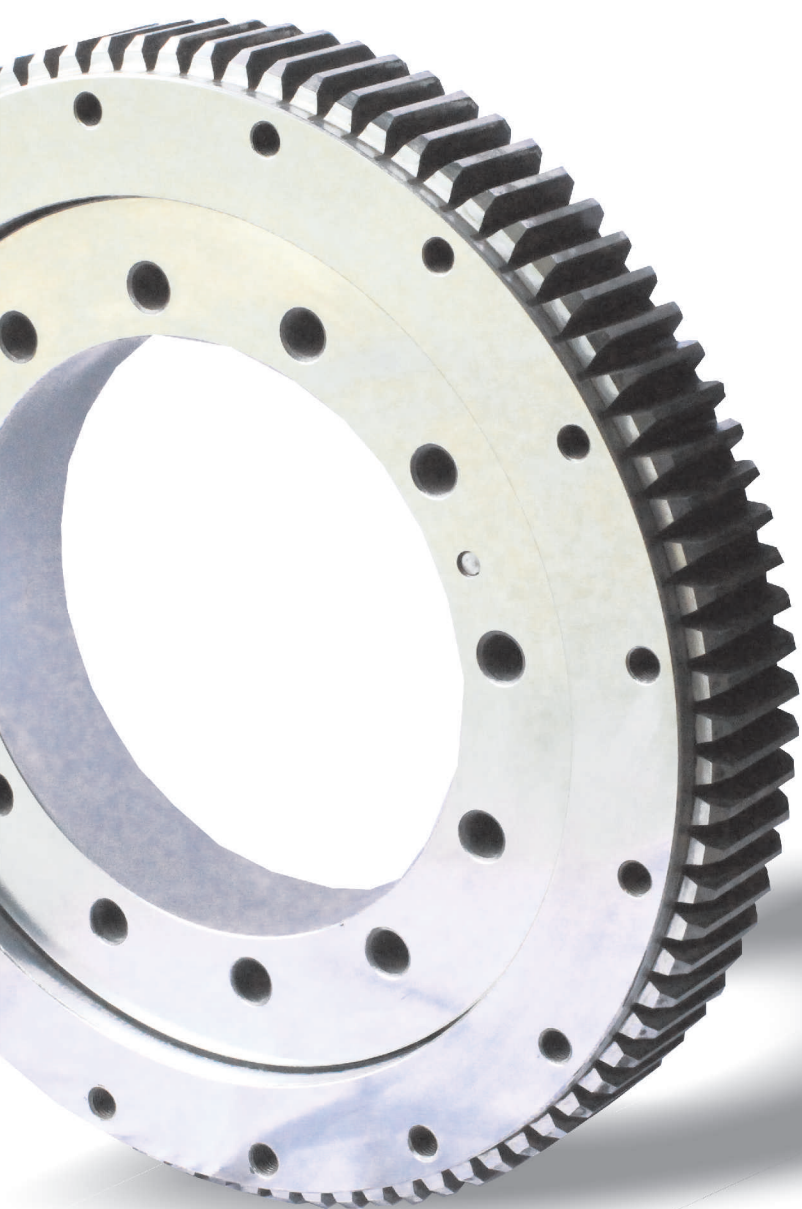




AKSH Manufacturing Private Limited

Slew Ring Bearings | Slew Drive | Wheel Assembly | Industrial Fabrication

www.akshudyog.com



- Established in October 2005 with name as AKSH Udyog
- Manufacturing solution provider for our esteemed customers
- AKSH Manufacturing has got 3 Business Verticals – Slew Ring Bearings and Slew Drive, EOT Crane Wheel Assembly and Industrial Fabrication.
- AKSH Manufacturing has developed AKSH Bearing as Specialised Spacer Less Slew Ring Bearing with Criss-Cross Technology.
- We treat every customer as a business partner & all our energies are focused on top notch quality of products, on time delivery and Customer satisfaction
- Aksh Manufacturing has manufacturing facility at strategic industrial location in Pune demographic area, near Pirangut
- AKSH believes in creating business partner relation rather than customer - supplier relation



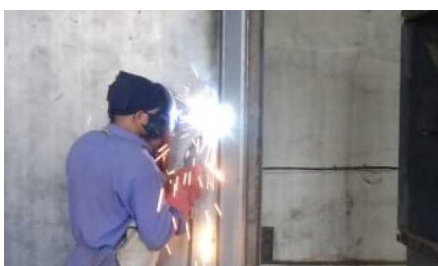
AKSH SLEW RING BEARING



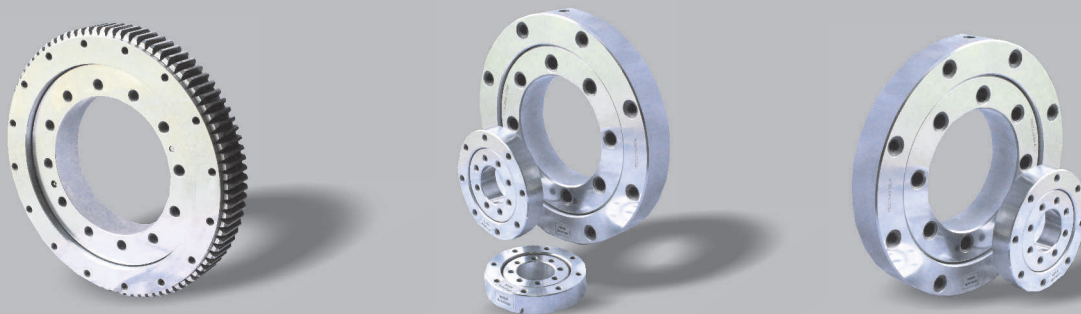
AKSH SLEW DRIVE



EOT CRANE WHEEL ASSEMBLY



INDUSTRIAL FABRICATION



FEATURES

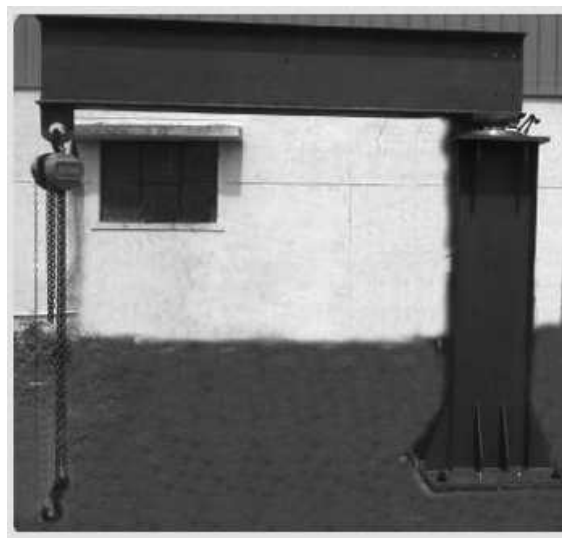
- AKSH Bearing division is engaged into design & manufacturing of Spacer Less Slewing Ring Bearings.
- AKSH Bearings are engineered with perfection & have unique "Roller Criss-Cross" Technology to suite low RPM & high loads.
- AKSH Bearings can be used as replacement of spindle/pivot assembly which can result into significant saving of space & cost.
- AKSH Bearings are engineered to deliver long service time with high precision. Case hardened material with specially designed bearing races & unique Criss-Cross Technology with super precision rollers guarantees increased load capacity & low coefficient of friction.
- AKSH Slew Ring Bearing are available from 120 mm to 1600 mm outer diameter in 70 standard variant.
- Customised Slew Bearing for special applications.

AKSH BEARING TESTING

This is actual testing photograph



20 Ton Axial load testing for A-30 Bearing



4.5 mtr Cantilever load testing facility



Aerial Work Platform



Welding Automation



Defence Equipment



Special Purpose Machines



Car Parking System



Material Handling Automation



Cranes



Pharmaceutical and Medical Equipment



Water Treatment Plants



Truck Cranes



Conveyor Table



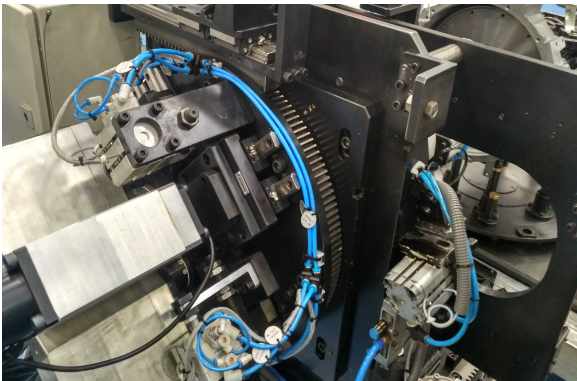
Aerial Work Platform / Truck Crane



Turn Table



Single Spindle nut runner



Nut runner for wheel bolt tightening



Water Treatment Plant

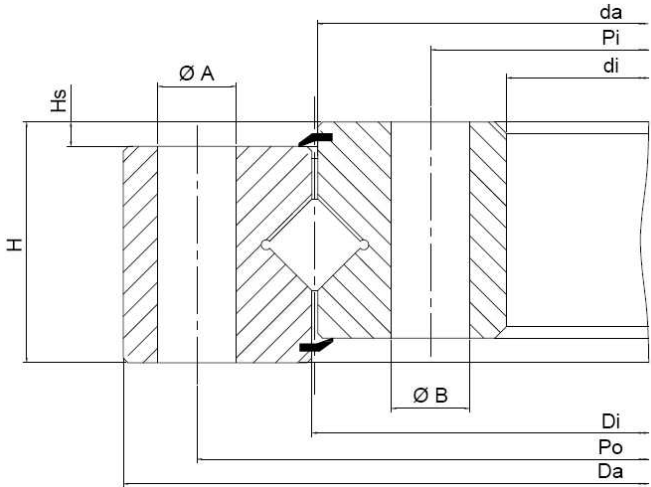
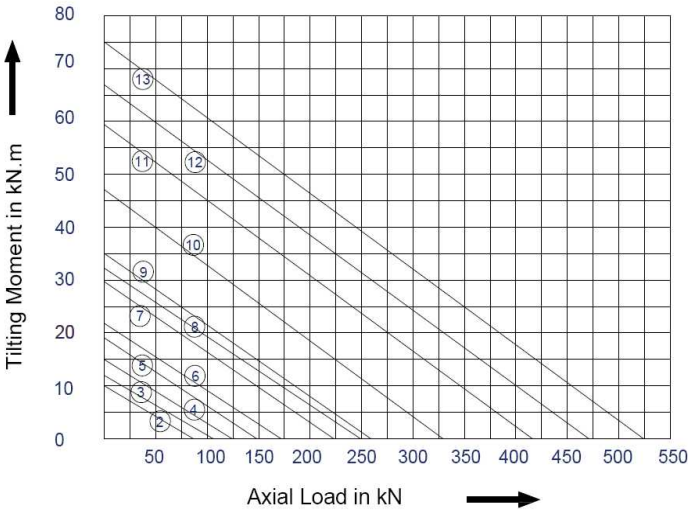
LM Series without Gear

Bearing No.	Roller	Outer Diameter	Inner Diameter	Outer Ring hole P.C.D.	Inner Ring hole P.C.D.	No of Holes on Outer Ring PCD	No of Holes on Inner Ring PCD	Inner dia of Outer ring	Outer dia of Inner ring	Total Height in	Distance at top and bottom of Outer / Inner Ring	Hole size on Outer Ring	Hole size on Inner Ring	Module	Number of teeth	Gear P.C.D.	Root Diameter	Max. Static Axial Load	Max. Dynamic axial Load	Graph No.
	PCD [mm]	Da [mm]	di [mm]	Po [mm]	Pi [mm]	n1	n2	Di [mm]	da [mm]	H [mm]	Hs [mm]	ØA [mm]	ØB [mm]	M [mm]	Z	DP [mm]	R [mm]	[KN]	[KN]	
87-2-A-125	87.5	125	50	112	63	8	8	88.7	86.3	28	4	7	7	NA	NA	NA	NA	5.5	2.4	-
100-1-A-145	100	145	55	130	70	8	8	101.5	98.5	30	4	9	9	NA	NA	NA	NA	87	38	2
100-1-A-160	100	160	40	140	60	8	8	101.5	98.5	40	4	11	11	NA	NA	NA	NA	106	47	3
116-1-A-175	116	175	55	155	75	8	8	117.5	114.5	40	4	11	11	NA	NA	NA	NA	122	54	4
140-1-A-200	140	200	80	180	100	10	10	141.5	138.5	40	4	11	11	NA	NA	NA	NA	146	64	5
162-1-A-220	162	220	100	200	120	12	12	163.5	160.5	40	4	11	11	NA	NA	NA	NA	171	75	6
190-1-A-260	190	260	120	235	145	12	12	191.5	188.5	44	4	14	14	NA	NA	NA	NA	223	98	7
208-1-A-280	208	280	135	255	160	12	12	209.5	206.5	44	4	14	14	NA	NA	NA	NA	244	107	8
222-1-A-300	222	300	144	270	175	8	8	223.5	220.5	50	6	18	18	NA	NA	NA	NA	264	116	9
246-1-A-330	246	330	160	300	190	10	10	247.5	244.5	57	6	18	18	NA	NA	NA	NA	331	146	10
308-1-A-400	308	400	220	370	250	12	12	309.5	306.5	56	6	18	18	NA	NA	NA	NA	414	182	11
350-1-A-435	350	435	265	405	295	14	14	351.5	348.5	56	6	18	18	NA	NA	NA	NA	469	206	12
390-1-A-480	390	480	300	450	330	16	16	391.5	388.5	56	6	18	18	NA	NA	NA	NA	524	231	13

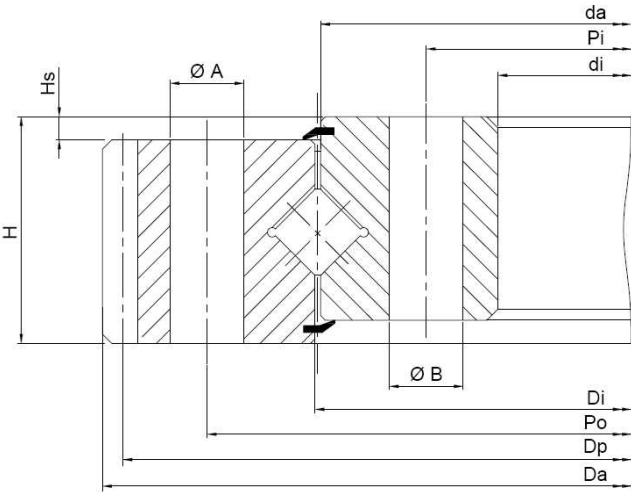
LM Series with External Gear

Bearing No.	Roller	Outer Diameter	Inner Diameter	Outer Ring hole P.C.D.	Inner Ring hole P.C.D.	No of Holes on Outer Ring PCD	No of Holes on Inner Ring PCD	Inner dia of Outer ring	Outer dia of Inner ring	Total Height in	Distance at top and bottom of Outer / Inner Ring	Hole size on Outer Ring	Hole size on Inner Ring	Module	Number of teeth	Gear P.C.D.	Root Diameter	Max. Static Axial Load	Max. Dynamic axial Load	Graph No.
	PCD [mm]	Da [mm]	di [mm]	Po [mm]	Pi [mm]	n1	n2	Di [mm]	da [mm]	H [mm]	Hs [mm]	ØA [mm]	ØB [mm]	M [mm]	Z	DP [mm]	R [mm]	[KN]	[KN]	
222-1-B-a325	222	325	144	270	175	8	8	223.5	220.5	50	6	M16	M16	5	63	315	302.5	264	116	9
246-1-B-a355	246	355	160	300	190	10	10	247.5	244.5	57	6	M16	M16	5	69	345	332.5	331	146	10
308-1-B-a426	308	426	220	370	250	12	12	309.5	306.5	56	6	M16	M16	6	69	414	399	414	182	11
350-1-B-a462	350	462	265	405	295	14	14	351.5	348.5	56	6	M16	M16	6	75	450	435	469	206	12
390-1-B-a510	390	510	300	450	330	16	16	391.5	388.5	56	6	M16	M16	6	83	498	483	524	231	13

LM Series Load Graph



LM Series without Gear

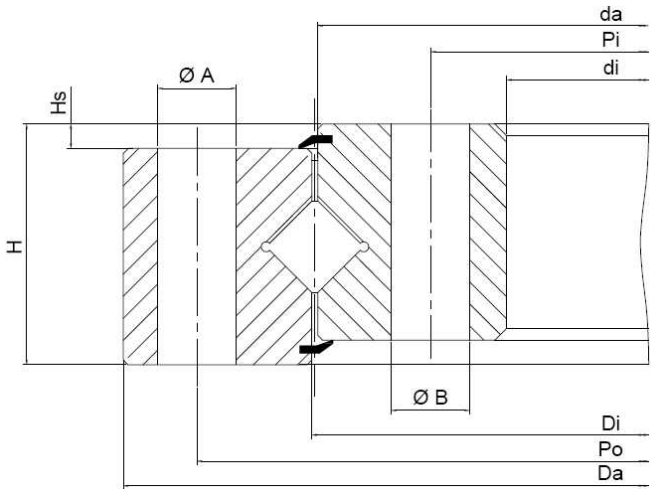


LM Series with External Gear

Notes:

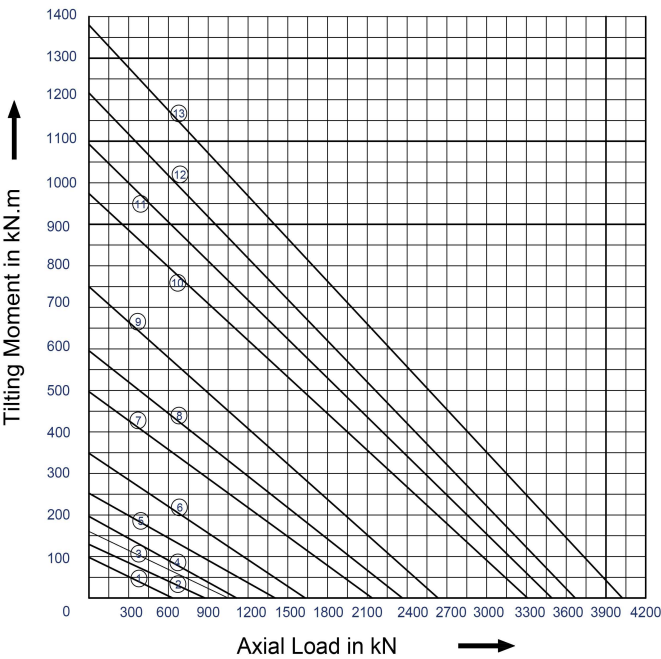
MH1 Series without Gear

Bearing No.	Roller	Outer Diameter	Inner Diameter	Outer Ring hole P.C.D.	Inner Ring hole P.C.D.	No of Holes on Outer Ring PCD	No of Holes on Inner Ring PCD	Inner dia of Outer ring	Outer dia of Inner ring	Total Height in	Distance at top and bottom of Outer / Inner Ring	Hole size on Outer Ring	Hole size on Inner Ring	Module	Number of teeth	Gear P.C.D.	Root Diameter	Max. Static Axial Load	Max. Dynamic axial Load	Graph No.
	PCD [mm]	Da [mm]	di [mm]	Po [mm]	Pi [mm]	n1	n2	Di [mm]	da [mm]	H [mm]	Hs [mm]	ØA [mm]	ØB [mm]	M [mm]	Z	DP [mm]	R [mm]	[kN]	[kN]	
387-1-A-490	387	490	285	455	320	18	18	389	385	66	8	M16	M16	NA	NA	NA	NA	658	289	1
513-1-A-615	513	615	410	580	445	24	24	515	511	66	8	M16	M16	NA	NA	NA	NA	877	386	2
615-1-A-715	615	715	515	680	550	30	30	617	613	66	8	M16	M16	NA	NA	NA	NA	1052	463	3
415-1-A-540*	415	540	285	495	330	16	14	416.5	413.5	90	10	M20	M20	NA	NA	NA	NA	1050	462	4
710-1-A-825	710	825	595	785	635	30	30	712	708	76	8	22	22	NA	NA	NA	NA	1415	622	5
813-1-A-925	813	925	700	885	740	34	34	815	811	76	8	22	22	NA	NA	NA	NA	1630	717	6
825-1-A-960	825	960	690	915	735	26	26	827	823	94	10	26	26	NA	NA	NA	NA	2128	936	7
925-1-A-1060	925	1060	790	1015	835	28	28	927	923	94	10	26	26	NA	NA	NA	NA	2376	1045	8
1020-1-A-1160	1020	1160	880	1115	925	30	30	1022	1018	94	10	26	26	NA	NA	NA	NA	2623	1154	9
1160-1-A-1320	1160	1320	1000	1260	1060	30	30	1162	1158	104	12	33	33	NA	NA	NA	NA	3306	1454	10
1215-1-A-1375	1215	1375	1055	1315	1115	32	32	1217	1213	104	12	33	33	NA	NA	NA	NA	3486	1534	11
1315-1-A-1475	1315	1475	1155	1415	1215	34	34	1317	1313	104	12	33	33	NA	NA	NA	NA	3786	1666	12
1415-1-A-1575	1415	1575	1255	1515	1315	36	36	1417	1413	104	12	33	33	NA	NA	NA	NA	4027	1772	13



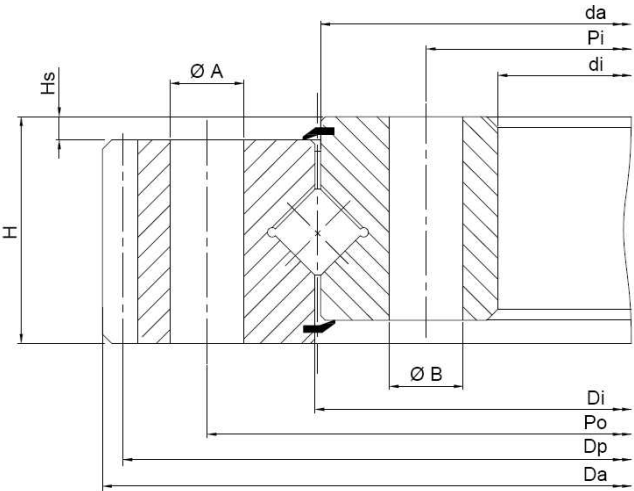
MH1 Series without Gear

MH1 Series Load Graph



MH1 Series with External Gear

Bearing No.	Roller	Outer Diameter	Inner Diameter	Outer Ring hole P.C.D.	Inner Ring hole P.C.D.	No of Holes on Outer Ring PCD	No of Holes on Inner Ring PCD	Inner dia of Outer ring	Outer dia of Inner ring	Total Height in	Distance at top and bottom of Outer / Inner Ring	Hole size on Outer Ring	Hole size on Inner Ring	Module	Number of teeth	Gear P.C.D.	Root Diameter	Max. Static Axial Load	Max. Dynamic axial Load	Graph No.
	PCD [mm]	Da [mm]	di [mm]	Po [mm]	Pi [mm]	n1	n2	Di [mm]	da [mm]	H [mm]	Hs [mm]	ØA [mm]	ØB [mm]	M [mm]	Z	DP [mm]	R [mm]	[KN]	[KN]	
387-1-B-a516	387	516	285	455	320	18	18	389	385	66	8	M16	M16	6	84	504	489	658	289	1
513-1-B-a656	513	656	410	580	445	24	24	515	511	66	8	M16	M16	8	80	640	620	877	386	2
615-1-B-a752	615	752	515	680	550	30	30	617	613	66	8	M16	M16	8	92	736	716	1052	463	3
415-1-B-a576*	415	576	285	495	330	16	14	416.5	413.5	90	10	M20	M20	8	70	560	540	1050	462	4
710-1-B-a873	710	873	595	785	635	30	30	712	708	76	8	M20	22	9	95	855	832.5	1415	622	5
813-1-B-a972	813	972	700	885	740	34	34	815	811	76	8	M20	22	9	106	954	931.5	1630	717	6
825-1-B-a1008	825	1008	690	915	735	26	26	827	823	94	10	M24	26	9	110	990	967.5	2128	936	7
925-1-B-a1110	925	1110	790	1015	835	28	28	927	923	94	10	M24	26	10	109	1090	1065	2376	1045	8
1020-1-B-a1210	1020	1210	880	1115	925	30	30	1022	1018	94	10	M24	26	10	119	1190	1165	2623	1154	9
1160-1-B-a1375	1160	1375	1000	1260	1060	30	30	1162	1158	104	12	M30	33	11	123	1353	1325.5	3306	1454	10
1215-1-B-a1430	1215	1430	1055	1315	1115	32	32	1217	1213	104	12	M30	33	11	128	1408	1380.5	3486	1534	11
1315-1-B-a1536	1315	1536	1155	1415	1215	34	34	1317	1313	104	12	M30	33	12	126	1512	1482	3786	1666	12
1415-1-B-a1632	1415	1632	1255	1515	1315	36	36	1417	1413	104	12	M30	33	12	134	1608	1578	4027	1772	13



MH1 Series with External Gear

Notes:

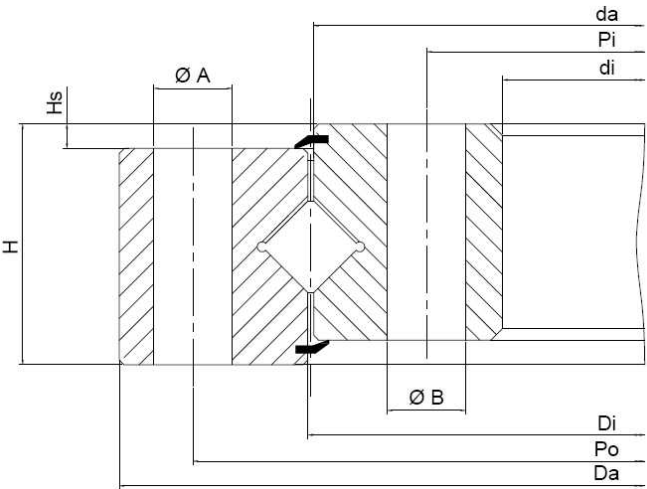
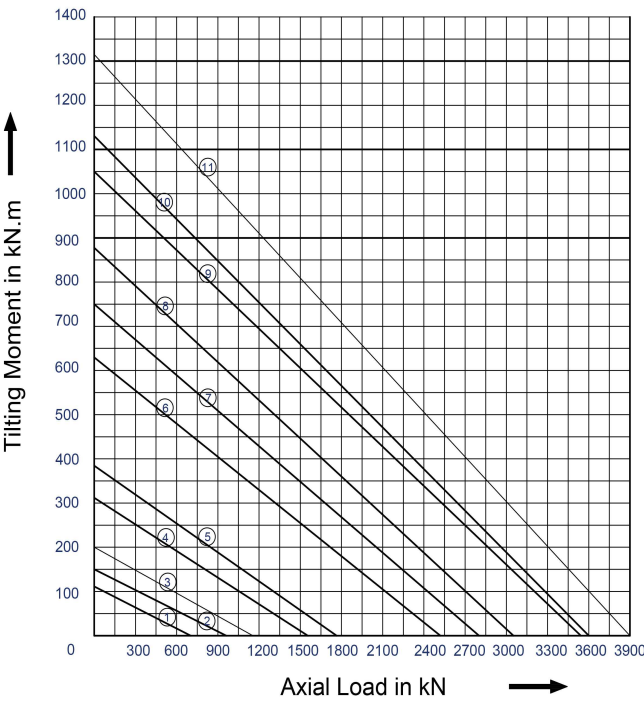
MH2 Series without Gear

Bearing No.	Roller	Outer Diameter	Inner Diameter	Outer Ring hole P.C.D.	Inner Ring hole P.C.D.	No of Holes on Outer Ring PCD	No of Holes on Inner Ring PCD	Inner dia of Outer ring	Outer dia of Inner ring	Total Height in	Distance at top and bottom of Outer / Inner Ring	Hole size on Outer Ring	Hole size on Inner Ring	Module	Number of teeth	Gear P.C.D.	Root Diameter	Max. Static Axial Load	Max. Dynamic axial Load	Graph No.
	PCD [mm]	Da [mm]	di [mm]	Po [mm]	Pi [mm]	n1	n2	Di [mm]	da [mm]	H [mm]	Hs [mm]	ØA [mm]	ØB [mm]	M [mm]	Z	DP [mm]	R [mm]	[KN]	[KN]	
448-1-A-550	448	550	345	515	380	20	20	450	446	66	8	18	18	NA	NA	NA	NA	767	338	1
575-1-A-675	575	675	470	640	505	26	26	577	573	66	8	18	18	NA	NA	NA	NA	986	434	2
677-1-A-780	677	780	570	745	605	32	32	679	675	66	8	18	18	NA	NA	NA	NA	1162	511	3
782-1-A-895	782	895	665	855	705	32	32	784	780	76	8	22	22	NA	NA	NA	NA	1568	690	4
875-1-A-990	875	990	760	950	800	36	36	877	873	76	8	22	22	NA	NA	NA	NA	1753	771	5
982-1-A-1115	982	1115	850	1070	895	28	28	984	980	94	10	26	26	NA	NA	NA	NA	2524	1111	6
1092-1-A-1230	1092	1230	950	1185	995	30	30	1094	1090	94	10	26	26	NA	NA	NA	NA	2821	1241	7
1190-1-A-1330	1190	1330	1050	1285	1095	32	32	1192	1188	94	10	26	26	NA	NA	NA	NA	3068	1350	8
1245-1-A-1405	1245	1405	1085	1345	1145	32	32	1247	1243	104	12	33	33	NA	NA	NA	NA	3546	1560	9
1295-1-A-1455	1295	1455	1135	1395	1195	34	34	1297	1293	104	12	33	33	NA	NA	NA	NA	3596	1582	10
1395-1-A-1555	1395	1555	1235	1495	1295	34	34	1397	1393	104	12	33	33	NA	NA	NA	NA	3967	1745	11

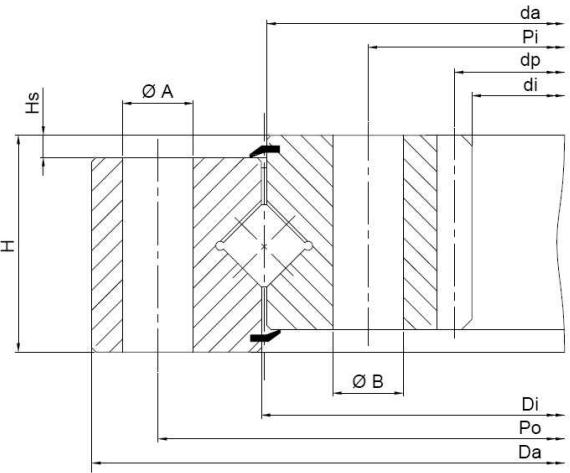
MH2 Series with Internal Gear

Bearing No.	Roller	Outer Diameter	Inner Diameter	Outer Ring hole P.C.D.	Inner Ring hole P.C.D.	No of Holes on Outer Ring PCD	No of Holes on Inner Ring PCD	Inner dia of Outer ring	Outer dia of Inner ring	Total Height in	Distance at top and bottom of Outer / Inner Ring	Hole size on Outer Ring	Hole size on Inner Ring	Module	Number of teeth	Gear P.C.D.	Root Diameter	Max. Static Axial Load	Max. Dynamic axial Load	Graph No.
	PCD [mm]	Da [mm]	di [mm]	Po [mm]	Pi [mm]	n1	n2	Di [mm]	da [mm]	H [mm]	Hs [mm]	ØA [mm]	ØB [mm]	M [mm]	Z	DP [mm]	R [mm]	[KN]	[KN]	
448-1-C-i304	448	550	304	515	380	20	20	450	446	66	8	18	M16	8	40	320	340	767	338	1
575-1-C-i432	575	675	432	640	505	26	26	577	573	66	8	18	M16	8	56	448	468	986	434	2
677-1-C-i531	677	780	531	745	605	32	32	679	675	66	8	18	M16	9	61	549	571.5	1162	511	3
782-1-C-i621	782	895	621	855	705	32	32	784	780	76	8	22	M20	9	71	639	661.5	1568	690	4
875-1-C-i710	875	990	710	950	800	36	36	877	873	76	8	22	M20	10	73	730	755	1753	771	5
982-1-C-i800	982	1115	800	1070	895	28	28	984	980	94	10	26	M24	10	82	820	845	2524	1111	6
1092-1-C-i891	1092	1230	891	1185	995	30	30	1094	1090	94	10	26	M24	11	83	913	940.5	2821	1241	7
1190-1-C-i1001	1190	1330	1001	1285	1095	32	32	1192	1188	94	10	26	M24	11	93	1023	1050.5	3068	1350	8
1245-1-C-i1032	1245	1405	1032	1345	1145	32	32	1247	1243	104	12	33	M30	12	88	1056	1086	3546	1560	9
1295-1-C-i1080	1295	1455	1080	1395	1195	34	34	1297	1293	104	12	33	M30	12	92	1104	1134	3596	1582	10
1395-1-C-i1176	1395	1555	1176	1495	1295	34	34	1397	1393	104	12	33	M30	12	100	1200	1230	3967	1745	11

MH2 Series Load Graph

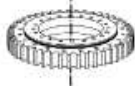


MH2 Series without Gear



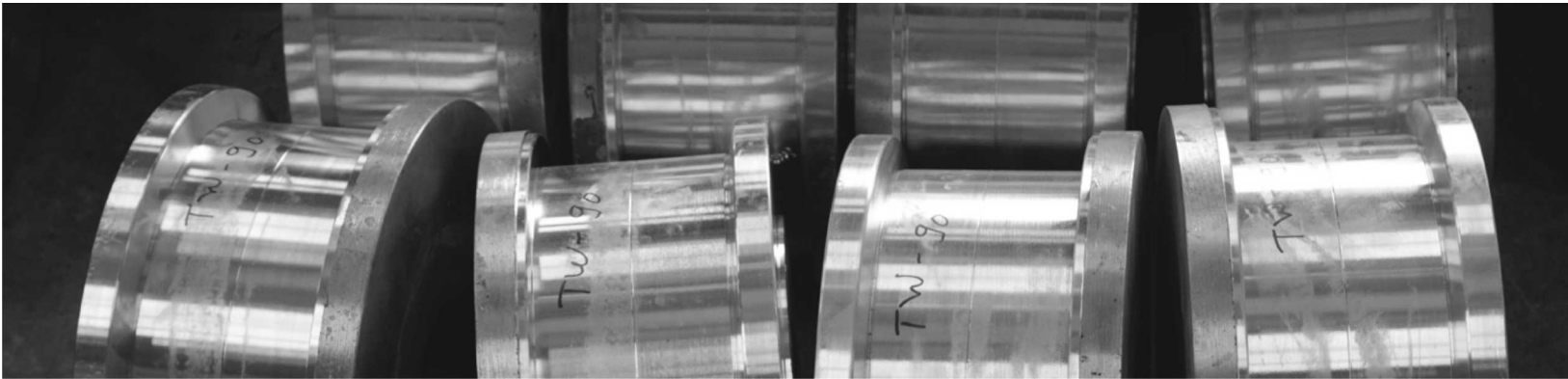
MH2 Series with Internal Gear

Notes:

Company Name:		
Contact Person Name:	Phone:	Email:
Address:		
Please make tick wherever necessary		
Application:	Type of Mounting:  ☐ Horizontal  ☐ Vertical ☐ Other	
Type of Load:		
☐ Axial	☐ Cantilever	☐ Radial
For Axial load:		For Cantilever load:
Total weight on slew Bearing: kg	Total weight on slew bearing in cantliver: kg	
Total weight on slew Bearing with FOS*: kg	Total weight on slew bearing in cantliver with FOS*: kg	
Component/ table/ Plate overall dimension table/ Plate:	Actual lifting weight offset from centre of Bearing: mm	
C.G. of component on plate/table:	Jib arm / Boom weight:	Hoist weight kg
For Radial load: Please send application GA drawing		
PCD Requirement:		
<u>Outer Ring</u>	<u>Inner Ring</u>	
Holes type / size: ☐ Tapping ☐ Through	Holes type / size: ☐ Tapping ☐ Through	
No of holes:	No of holes:	
Please mention any constraint for ID or OD diameter		
Please mention any constraint for PCD		
Please confirm if you are OK with small bearing with achieving required load capacity		

* FOS - Factor of Safety

[illegible]



Wheel assembly is the most important part of crane as it provides actual motion to crane.

The assembly consists of various components including wheel, shaft, bearings, housing etc.

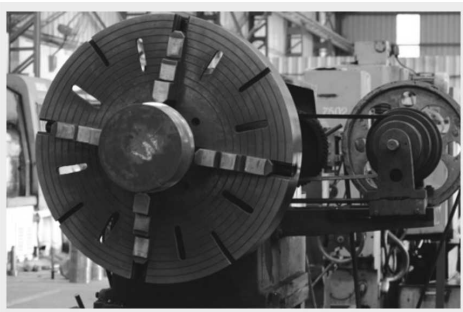
AKSH manufactures around 3000 nos of wheel assemblies per year & supplies to various EOT crane manufacturers.

The raw material used for wheel assembly is genuine one which has been tested thoroughly for various testing procedures like chemical, physical analysis before starting of processing.

Forgings & shafts of wheels have been undergone for ultrasonic testing procedure to ensure defect free production.

A wheel has been heat treated to specified hardness by means of hardening & tempering procedures.

AKSH manufactures wheels starting for 150 mm Diameter up to 800 mm Diameter as per customer specifications.





The existing setup of company consists of various categories of machines. There are two units near Pirangut, Pune having total area of 16500 sqft. All machines are comprises of respective inspection instruments & gauges which are required for day to day inspection activity.





AKSH
Manufacturing Pvt Ltd

Office & Works

AKSH Manufacturing Pvt Ltd.

Unit 1 - Gat. No. - 311/2/2, Ambervet, Beside Mahindra Tsubaki Conveyor,
Paud Road, Tal - Mulshi, Pune - 412111 Maharashtra, INDIA.

Unit 2 - Gat 405/9, BBM company road, Behind Mulshi MSEDCL Substation,
Village - Bhare, Tal - Mulshi, Pune - 412111 Maharashtra, INDIA.

Contact

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