



mgm



OUR PRODUCTION PLANTS

S.C. "RULMENTI" S.A. BARLAD is constructed in 1953 and is a worldwide supplier of bearings and services in the rolling bearing business. After privatization by Kombassan in 2000 with the investment and improvement it joined to first class of bearing producers.

The Company is among the biggest producers of rolling bearings from South East of Europe and making export more than 80 countries mainly to the Europe and North America.



New MGM ZRT was constructed to very near the capital city of Hungary in 1950 and it was joined to Rulmenti Group family in 2007.

Our products are widely used from automotive industry through agricultural machinery to home appliances. 70% of our bearings are exported mainly to Western Europe, where our products are sold to world class OEMs. Our traditions in the field of production and technical technological development drive us to meet the market challenges through continuous improvement of our products.

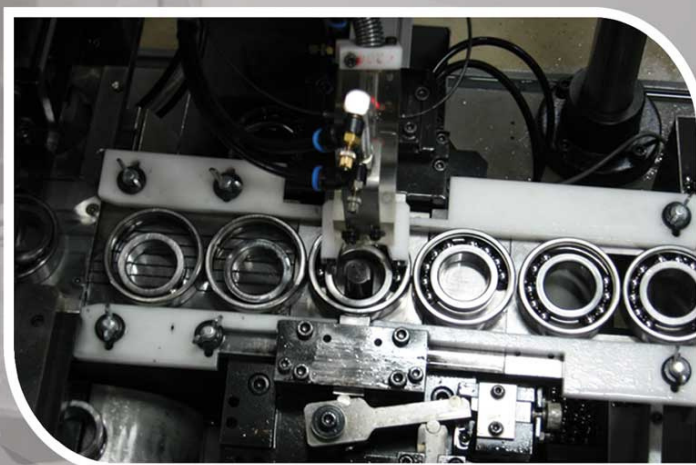


Anadolu Rulman İmalat San. Ve Tic. A.Ş. (ART), is being the member of the Rulmenti Group with more than 60 years experience was constructed in 2005. ART is one of the two bearing producers in Turkey, with continuous improvement, customer oriented approach in domestic and abroad market, reaches the excellence in product and services in bearing business.

ANADOLU RULMAN A.Ş.



DEEP GROOVE BALL BEARINGS



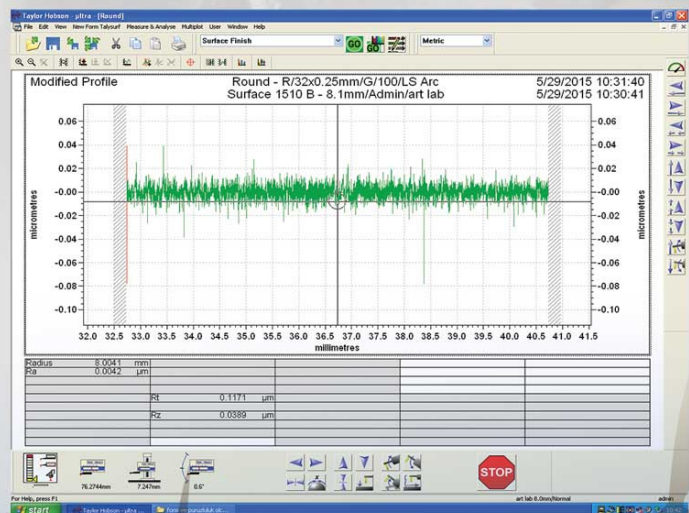
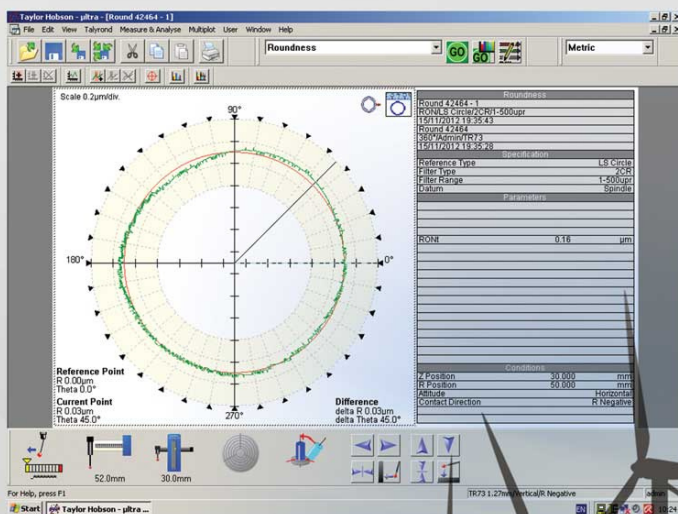
DEEP GROOVE BALL BEARINGS

* By using the latest technology, reliable durable and high quality products



- * Bearing for special working conditions (high temperature, high speed, dust, heavy load, high humidity or water vapor, vibration, electrical arc) for the industries such as; Steel Industry, Cement Industry, Electric Motor Industry, Pump Industry, Agricultural Machines, Gear Boxes,

* **Hybrid Bearings** Our bearings with ceramic balls with improved design are suitable to use for higher speed with lower noise level and lower working temperature and increased working life with higher performance.



* MGM ball bearings are designed and produced for fully customer satisfaction

* Due to the improved ISO standards, MGM bearings can easily meet the necessity of industry.



Bearing Series

60x Series : 607 – 609
61x Series : 618/5 – 619/9
62x Series : 623 – 627
63x Series : 634 – 635
60xx Series : 6000 – 6060M
62xx Series : 6200 – 6226
63xx Series : 6300 – 6324M
64xx Series : 6400 – 6418
68xx Series : 6800 – 6830
69xx Series : 6900 – 6930
160xx Series : 16002 – 16030
618xx Series : 61800 – 61818
619xx Series : 61900 – 61910
622xx Series : 62200 – 62220
623xx Series : 62300 – 62319
88508, 88509, 697006, 630309,
6207 RSDNBEL, 712213, 712222

* R-D centralized analysis, design and production with long experience of engineering result in creative solutions for special applications.

* The meeting point of experience and technology result in reliable low cost solution of bearings





TAPERED ROLLER BEARINGS

TAPERED ROLLER BEARINGS

* High performance and long life with more than 60 years experience result in excellence.

* The improved bearings for low friction moment with R-D projects together studied with technical universities and TUBITAK result in low energy loss bearings.

* Optimized stress distribution between roller and raceway ensures optimum load distribution and this prevents edge failure because of edge stresses.

* The surface quality are increased by improving the grinding and honing processes.

* The life of the bearings are increased around 30% with improved internal geometry.



Bearing Series

302xx Series : 30202 – 30240

303xx Series : 30302 – 30324

320xx Series : 32005 - 32026

322xx Series : 32202 – 32240

323xx Series : 32303 – 32320

330xx Series : 33005 – 33030

331xx Series : 33115 – 33122

332xx Series : 33205 – 33215

313xx Series : 31305 – 31326

and Inch series...

**THRUST
BALL BEARINGS**

51207

HUNGARY

MGM



THRUST BALL BEARINGS

MGM thrust ball bearings are improved with new internal construction design and know-how result in increased load higher working speeds.

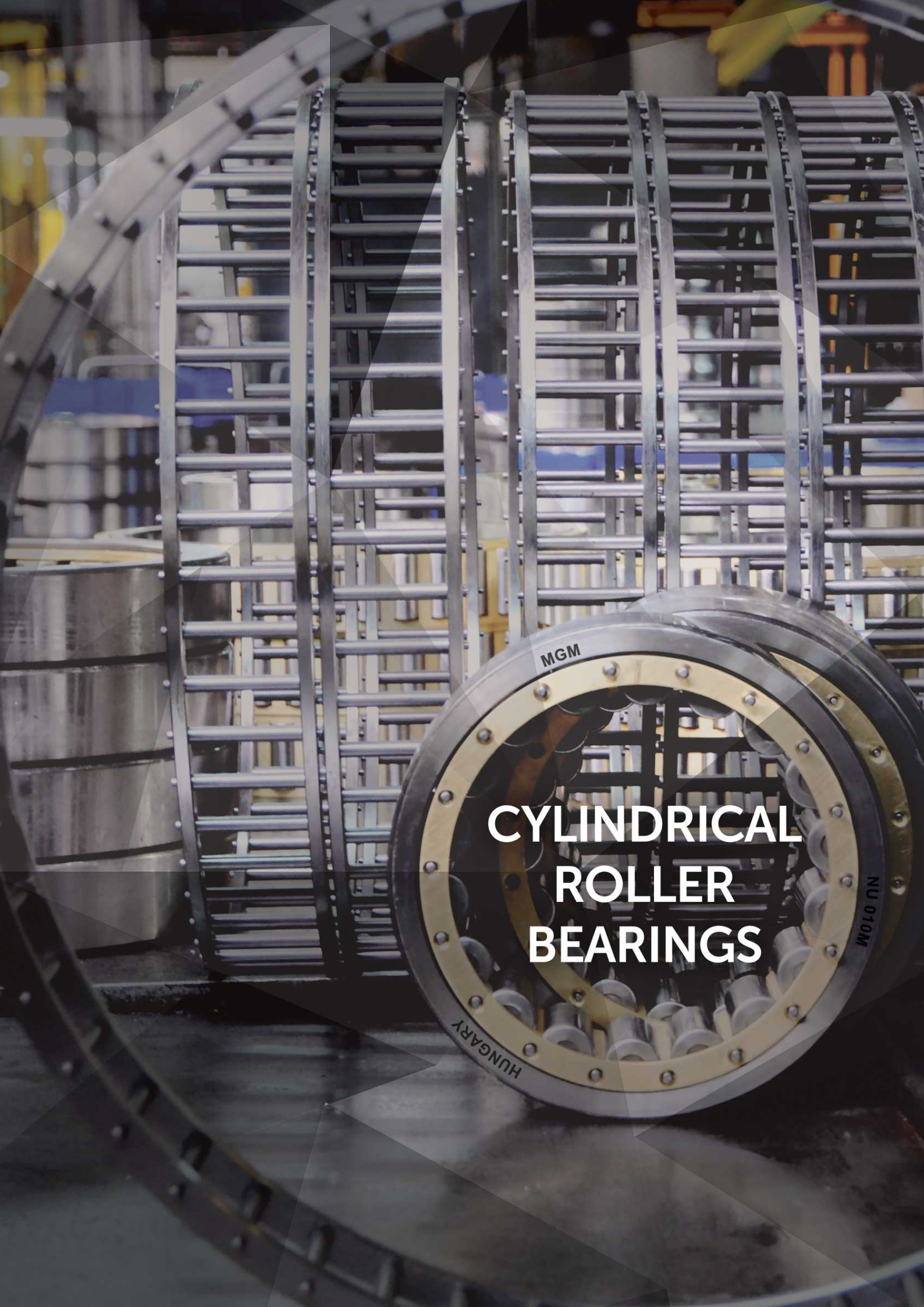
Bearing Series

511xx Series : 51100 – 51192
512xx Series : 51200 – 51272
513xx Series : 51305 – 51340
514xx Series : 51405 – 51430
522xx Series : 52202 – 52240
523xx Series : 52305 – 52328
524xx Series : 52406 – 52430
532xx Series : 53200 – 53228
533xx Series : 53305 – 53330
534xx Series : 53406 – 53426
542xx Series : 54202 – 54226
543xx Series : 54305 – 54324
544xx Series : 54405 – 54420



The internal tension is decreased between rolling elements and raceway, thus fatigue limits are increased between contact points. By this way increased life can be achievable,





The image shows a large industrial machine, likely a mill or grinder, featuring a massive cylindrical roller bearing. The bearing is composed of numerous parallel rollers held within a cage. In the foreground, a circular cross-section of the bearing is visible, revealing the internal arrangement of the rollers and the cage. The text "CYLINDRICAL ROLLER BEARINGS" is overlaid in white, bold, sans-serif font on this circular section. The background is a blurred industrial setting with various mechanical components and structural elements.

CYLINDRICAL ROLLER BEARINGS

MGM

NU 010M

HUNGARY

CYLINDRICAL ROLLER BEARINGS

MGM, cylindrical roller bearings with the increased contact line between rollers and rings, the bearing life is increased.

Proper loading and lubrication working condition with very low noise and little friction, increased life with higher speed is achieved.



Bearing Series

N Series : N203 – N240
NU Series : NU203 - NU19/710M
NU + HJ Series : NU+HJ 203 – NU+HJ 19/710M
NJ Series : NJ203 – NJ2992
NJ+HJ Series : NJ+HJ 203 – NJ+HJ 2992
NUP Series : NUP203 – NUP244M
NJ23VH Series : NJ2305 VH – NJ2340 VH
NC Series : NC2904 – NC2992
NCF Series : NCF2904 – NCF2918/750
NN Series : NN3006 – NN3048
NNU Series : NNU4916 – NNU4984
NN Series : NN4938 – NN4948
NNC Series : NNC4912 – NNC49/530
NNCF Series : NNCF5005 – NNCF49/530
NNCL Series : NNCL4912 – NNCL49/530





SPHERICAL ROLLER BEARINGS

MGM

22222 MBW33

HUNGARY

SPHERICAL ROLLER BEARINGS

MGM spherical roller bearings are improved by increasing the roller and raceway quality and also by optimization of surface geometry of the roller and raceway. Therefore load carrying capacity and life of the bearings are increased.

With the new production technologies increased surface qualities result in very low noise level, increased life and increased load, easy maintenance is achieved.



Bearing Series

213xx Series : 21307 – 21322
222xx Series : 22205 – 22264
223xx Series : 22308 – 22352
230xx Series : 23020 – 23080
231xx Series : 23120 – 23180
232xx Series : 23218 – 23268
233xx Series : 23328 – 23332
240xx Series : 24020 – 24080
241xx Series : 24122 – 24196
251xx Series : 25118 – 25134
252xx Series : 25226 – 25228
239/xxx Series: 239/600-239-750

RAILWAY BEARINGS



RAILWAY BEARINGS

* Journal roller bearings, axle bearings, transmission bearings, traction motor bearings for railway applications.

* Our railway bearings have IRIS (International Railway Industry Standard) certification and including Turkish Railway and some important European countries are using our bearings.

WJ Bearing Series

WJ+WUJ110/215 MC3
WJ+WJP 110/215 MC3
WJ+WJP117/240 MC4
WJ+WJP118/240 MC4
WJ+WJP119/240 MC4
WJ+WJP120/240 MC3
WJ+WJP120/240 TNC3
WJ+WJP130/240 MC3
WJ+WJP130/240 TNC3
WJ+WJP130/250 MC4
WJ130/250 F
WJP130/250 F
WJ+WJP130/250 F
WJ+WJP130/260M6C4
WJ+WJP140/300 MC4
WJ+WJP160/320 MC4

* Railway bearings are produced according to UIC 510-1, EN 12080 and EN 12082 standards.

Spherical Roller Bearings

213xx Series : 21307 – 21322
222xx Series : 22205 – 22264
223xx Series : 22308 – 22352
230xx Series : 23020 – 23080
231xx Series : 23120 – 23180
232xx Series : 23218 – 23268
233xx Series : 23328 – 23332
240xx Series : 24020 – 24080
241xx Series : 24122 – 24196
251xx Series : 25118 – 25134
252xx Series : 25226 – 25228
239/xxx Series: 239/600-239-750

Deep Groove Ball Bearings

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622xx Series : 62200 – 62220
623xx Series : 62300 – 62319
88508, 88509, 697006, 630309,
6207 RSDNBEL, 712213, 712222

Cylindrical Roller Bearings

N Series : N203 – N240
NU Series : NU203 - NU19/710M
NU + HJ Series : NU+HJ 203 – NU+HJ 19/710M
NJ Series : NJ203 – NJ2992
NJ+HJ Series : NJ+HJ 203 – NJ+HJ 2992
NUP Series : NUP203 – NUP244M
NJ23VH Series : NJ2305 VH – NJ2340 VH
NC Series : NC2904 – NC2992
NCF Series : NCF2904 – NCF2918/750
NN Series : NN3006 – NN3048
NNU Series : NNU4916 – NNU4984
NN Series : NN4938 – NN4948
NNC Series : NNC4912 – NNC49/530
NNCF Series : NNCF5005 – NNCF49/530
NNCL Series : NNCL4912 – NNCL49/530

ENERGY GROUP BEARINGS



ENERGY GROUP BEARINGS

* Our company with more than 60 years experience and know how can supply standart and special bearings for wind turbine industry, for petroleum industry, for gearbox industry, for steel industry.

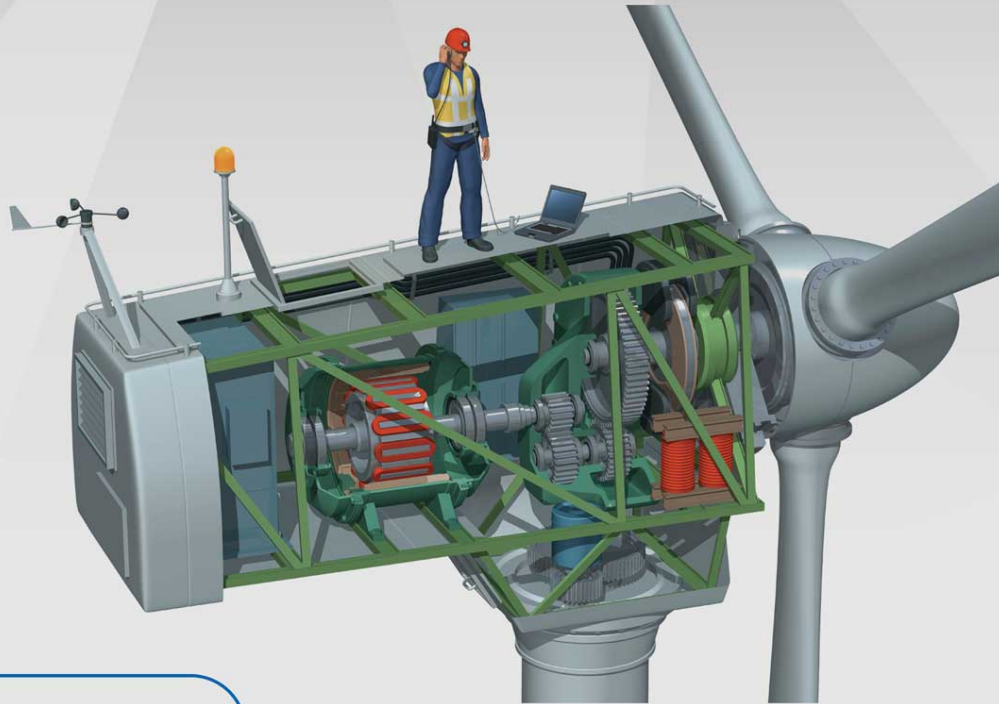
* Our R-D engineers having succesfull results for their empowered innovative design to meet the Germanischer Lyoyd standarts.

Cylindrical Roller Bearings For Wind Turbine

NU2218 EMASQ1
NJ2220 EMSQ1
NJ2320 EMSQ1
NU2320 EMSQ1
NJ2222 EMSQ1
NU2222 EMSQ1
NU222 EMSQ1
NJ2322 EMASQ1
NJ322 EMSQ1
NJ2324 MC3SQ1
NJ2224 EMSQ1
NU2224 EMSQ1
NJ324 EMSQ1
NU326 EM6SQ1
NJ2226 EMSQ1
NU2226 EMSQ1
NJ2326 EM6SQ1
NU2326 EM6SQ1
NU226 EMSQ1
NJ228 EMSQ1
NU2228 EM6SQ1
NU2328 EMASQ1
NJ2230 EMSQ1
NJ2330 EMASQ1
NU330 EMASQ1
NU230 EMSQ1
NJ2332 EMSQ1
NJ2232 EMSQ1
NU2232 EMSQ1
NU232 EMSQ1
NU2234 EMASQ1
NJ2334 EMSQ1
NJ234 EMSQ1
NU2336 EMSQ1
NU2338 EM6SQ1
NJ2240 EMSQ1
NU2240 EMSQ1
NU1048 MSQ1
NU1068 MSQ1

Spherical Roller Bearings For Wind Turbine

22217 MBW33
22319 MBW33
22320 MBW33
22322 MBW33
22324 MBW33
22226 MBW33
22326 MBW33
22234 MBW33
23134 MBW33
24134 CAW33
24136 CAW33
23238 MBW33
23240 MBW33
24144 MBW33
23244 MBW33
23948 MBW33
23152 MBW33
23956 MBW33
23960 MBW33
23964 MBW33
23064 MBW33
23972 MBW33



* Improved design with optimized geometry for improved one and more row bearings are suitable for higher radial loads in gearboxes and generators.





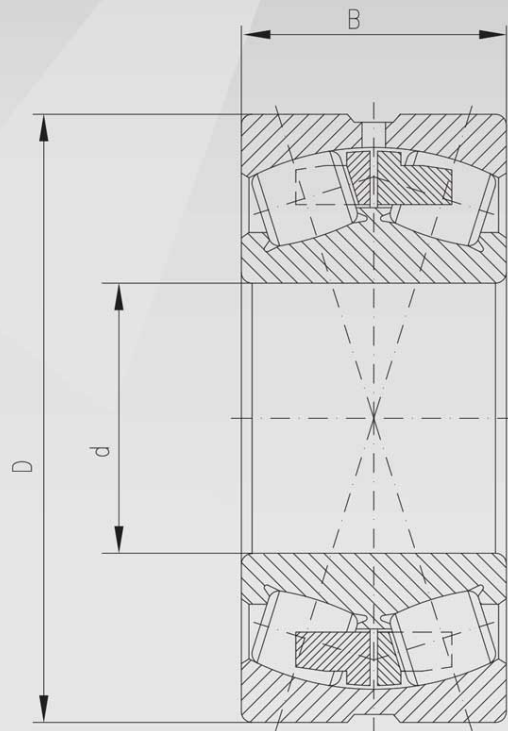
VIBRATING EQUIPMENT BEARINGS

VIBRATING EQUIPMENT BEARINGS

Spherical Roller Bearings

22208 MAC4F80W33
22308 MAC4F80W33
22309 MAC4F80W33
22310 MAC4F80W33
22211 MAC4F80W33
22311 MAC4F80W33
22312 MAC4F80W33
22213 MAC4F80W33
22313 MAC4F80W33
22314 MAC4F80W33
22315 MAC4F80W33
22316 MAC4F80W33
22317 MAC4F80W33
22318 MAC4F80W33
22319 MAC4F80W33
22320 MAC4F80W33
23222 MAC4F80W33
22322 MAC4F80W33
22324 MAC4F80W33
22226 MAC4F80W33
22326 MAC4F80W33
22328 MAC4F80W33
23328 MAC4F80W33
22330 MAC4F80W33
22332 MAC4F80W33
23332 MAC4F80W33
22334 MAC4F80W33
22336 MAC4F80W33
23238 MAC4F80W33
22338 MAC4F80W33
22340 MAC4F80W33

* Vibrating equipment bearings are designed for precision working areas, extra load, higher operational speed, contaminated working areas,



* The shaking actions of vibrating equipment subjects the bearings to very heavy loads, including impact loads. Additional load is created by higher "g" forces generated by acceleration in the application.





BEARINGS FOR MINING INDUSTRY

BEARINGS FOR MINING INDUSTRY

* In the mining sector severe operating and environmental conditions require extremely robust bearings. Bearings for mining industry are used on bucket wheel excavators, draglines, conveyor belts, trucks, stackers, transport equipment and mine loaders, longwall shearers, hoists.

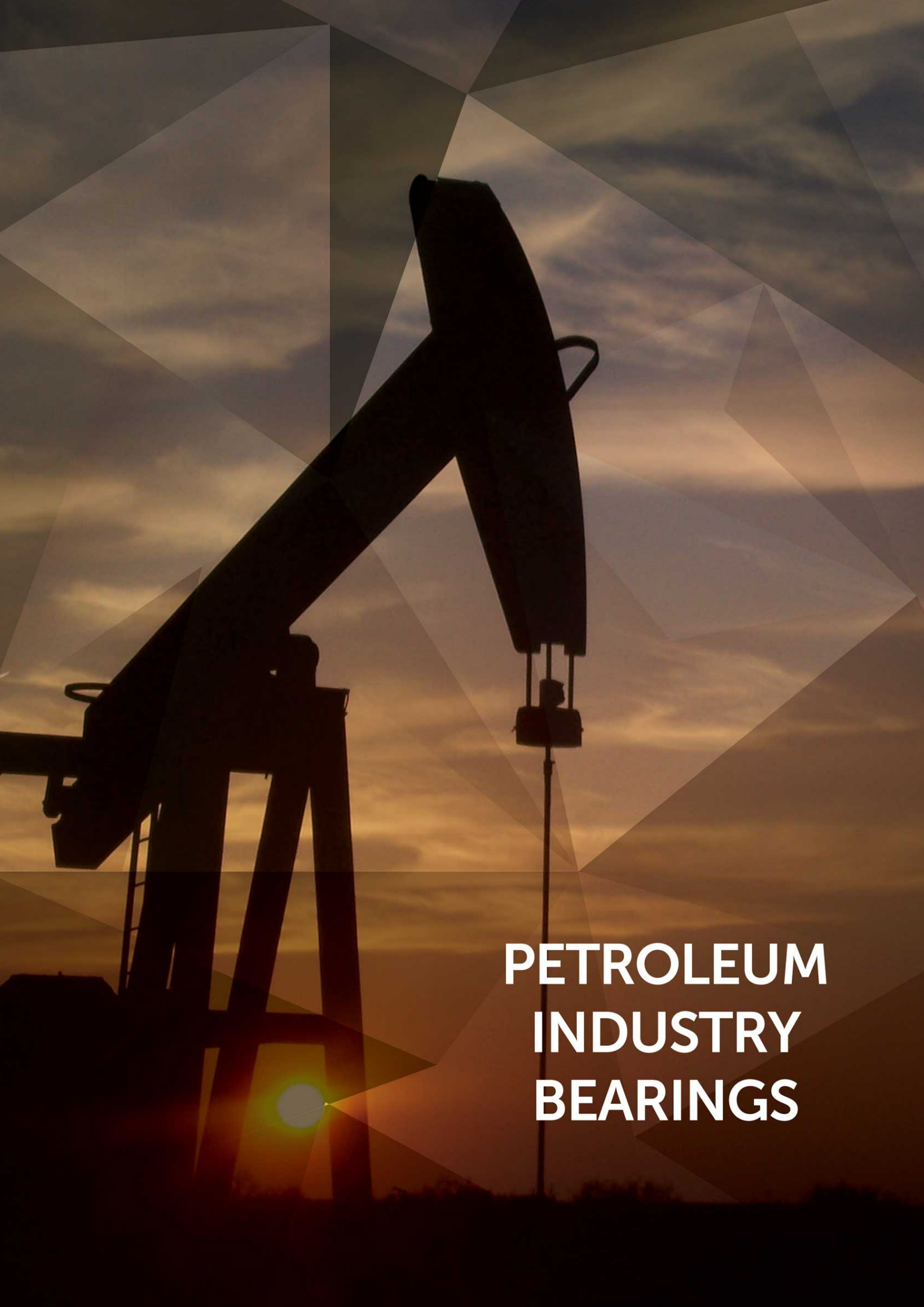
* Mining industry uses many types of bearings: rolling bearings, deep groove ball bearings, spherical roller bearings and tapered roller bearings.



Dimension (mm)			Basic radial load (mm)		Speed Limit	Bearing Code
d	D	B	Dyn.	Static	Grease	
			C _r kN	C _{or} kN	min ⁻¹	
19	35	10	6	3.3	12000	6003/19
20	47	14	12.8	6.7	15000	692204TN
20	47	15.18	12.8	6.7	10000	204 WR Z22 SFA
20	52	21	16	7.9	8000	62304-2RSR
20	60	31.6	16	7.9	8000	690204C3S3
20	80	15	16	7.9	8000	500504-2RSRTNC3
24.2	47	19.8	10.1	5.9	8000	696205-2RSRTN
25	52	12	14	7.9	8000	420205
25	52	18	14	7.9	8000	62205-2RSR
25	62	24	20.6	11.2	7000	62305-2RSR
25	67	19	20.6	11.2	9000	691305TN
25.4	52	15	14	7.9	12000	6205/25.4UGC3
26	47	19.6	10.1	5.9	8000	696405-2RSRACRTNC3L21
27	47	8	9.1	5.55	15000	6005 SOF2
30	55	13	13.2	8.2	7000	6006A-2RSRTN
30	55	18.9	13.2	8.2	7000	696906-2ZRC3
30	62	16	19.5	11.4	7500	96108006
30	62.1	24.5	13.2	8.2	7000	697106
30	65	21	25	14	6000	630374-2RSTNC4
30	65	21	25	14	6000	697006-2RSTNC4
30	72	19	26.5	15	6000	96108005
30	72	28	28.3	16	7000	10/330 PZ
30	75	19	30.7	19.6	9000	697706MPA
30	75	19	32.9	17.6	9000	698806MBC3
33	66	17	17.8	11.2	9000	65907
35	72	17	25.7	15.6	7000	6207RSDNBTNEL
35	72	25	25.7	15.6	7000	88507
60	110	25	52.4	36.3	4000	6212-2RSR/B25
63.5	100.3	21.8	25.4	22.3	5500	691013
70	148	45	48.4	39.7	3600	690916M
210	290	23.5	54.9	73.7	1800	690342

Dimension (mm)			Basic radial load (mm)		Speed Limit	Weight (Kg)	Bearing Code
d	D	B	Dyn.	Static	Grease		
			C _r kN	C _{or} kN	min ⁻¹		
100	180	46	375	500	2800	5.24	22220C
200	360	98	1140	1716	1200	44.4	22240MB
240	440	120	1818	2701	1000	85.2	22248MB
75	160	55	415	520	3000	5.28	22315C
85	180	41	350	450	2800	5.10	22317C
90	190	64	570	730	2400	8.70	22318C
100	215	73	730	960	2000	13.2	22320C
110	240	80	870	1160	1900	18	22322MB
460	760	300	7250	14600	670	560	24192C



The image features a low-angle silhouette of an oil pumpjack against a dramatic sunset sky. The sky is filled with soft, orange and yellow clouds. A bright sun is visible near the bottom left, creating a lens flare effect. Overlaid on the entire scene is a complex geometric pattern of semi-transparent, overlapping triangles in various shades of gray and white. The text "PETROLEUM INDUSTRY BEARINGS" is positioned in the lower right quadrant, rendered in a bold, white, sans-serif font.

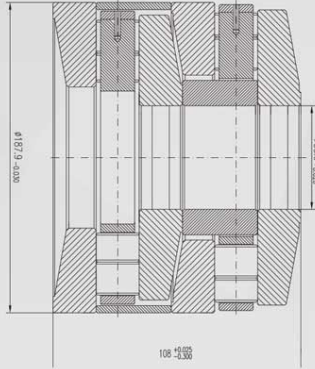
PETROLEUM INDUSTRY BEARINGS

PETROLEUM INDUSTRY BEARINGS

* High load carrying capacity in an extremely confined space, high reliability, high corrosion resistance,

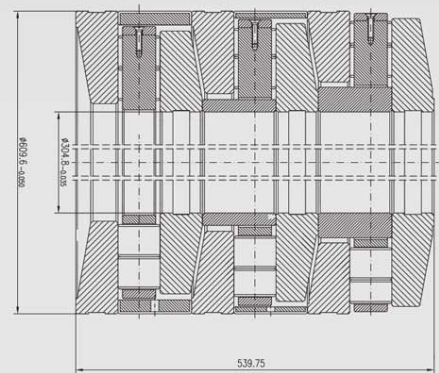
* Our company offers specifically designed bearings for high thrust loads

TANDEM THRUST 2 STAGE TAB-035075M



* The tandem design allows the use of high thrust capacity bearing in a small area.

TANDEM THRUST 3 STAGE TAC-120240-207M

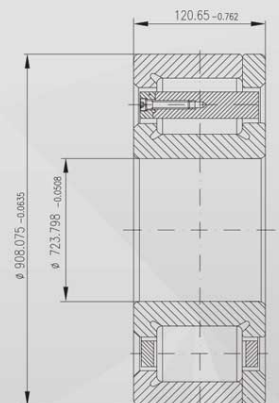


* The material used is 100 Cr6MnSi has good hardenability and good temperature resistance and stability

Dimensions (mm)			Row	Basic Radial Load (kN)		Weight (kg)	MGM Bearing Code
d	D	H		Ca	Coa		
88.9	187.9	108	2	3106	821	2.5574	TAB-035075M
304.8	609.6	539.75	3	13500		810.082	TAC-120240-207M

Big Size Cylindrical Roller Bearings (NPEW/724M)

Dimensions (mm)			Row	Basic Radial Load (kN)		Weight (kg)	MGM Bearing Code
d	D	H		Ca	Coa		
723.798	908.075	120.65	1	2985	7366	195.8	NPEW/724M



Cylindrical Roller Bearings

NU2252 EM
NU2264 M
NU1076 M
NUP1080 M
NUP29/560 M
NUP29/600 EMA
NUP29/630 EMA
NUP29/710 EMA

Spherical Roller Bearings

22356 CAW33
23156CA/C3W33
23160CAW33
23176 CAW33
23260 MBW33
24060CAW33
24176 CAW33
230/600 CAW33

Angular Contact Thrust Ball Bearings

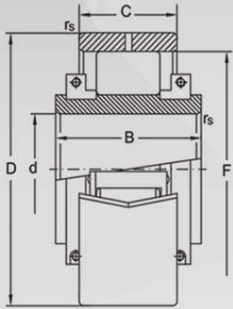
RY 65/500
RY 65/530
RY 65/600
RY 65/600 A
RY 65/800 B

**BEARINGS
FOR
METALLURGICAL
INDUSTRY**

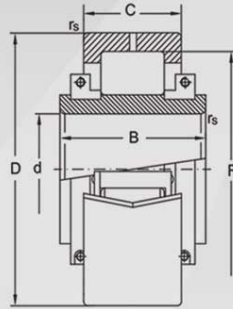
BEARINGS FOR METALLURGICAL INDUSTRY

* Bearings for the mining industry must meet special requirements t High operational reliability t Reduced maintenance requirements t High load carrying capacityt Simple mounting and dismounting

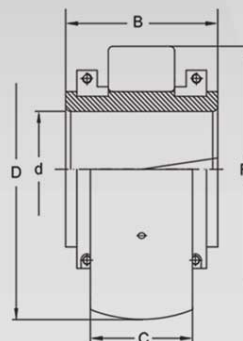
* In the mining sector severe operating and environmental conditions require extremely robust bearings.



NBS



NUBS



493829C4NAS1V

NUBS5125 MA
NBS5126 M
493829 C4NAS1V
NUBS5144 MA
NBS5160 MC3NA

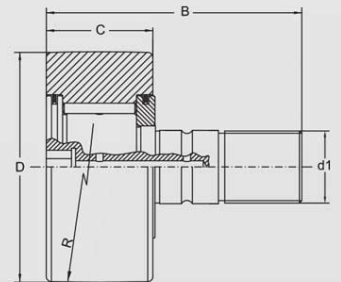
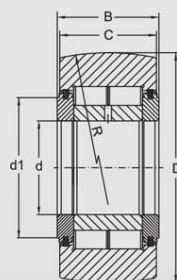
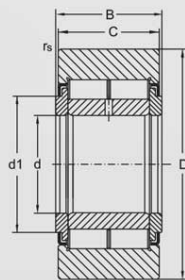
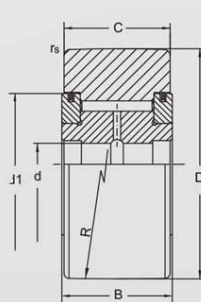


* Bearings for mining industry are used of bucket wheel excavators, draglines, conveyor belts, trucks, stackers, transport equipment and mine, loaders, longwall shearers, hoists

* Mining industry uses many types of bearings: rolling bearings, deep groove ball bearings, spherical roller bearings and tapered roller bearings.

Cylindrical Roller Bearings

NNUP5104 V
NUTR20
NNUP5105 V
NUTR25F
NNUP5205 V
NUTR2562
NNUP5206 V
NUTR30
NNUP5106 V
NNUP5107 V
NUTR35
NNUP5108 V
NUTR40
NNUP5208 V
NUTR4090-2Z
NNUP5109 V
NUTR45100-2Z
NUTR80x160x72
NUTR140-2RS
NNUP5228 VC3
NUTR150-2RS
NNUP5130 VC3W44



BEARINGS FOR METALLURGICAL INDUSTRY

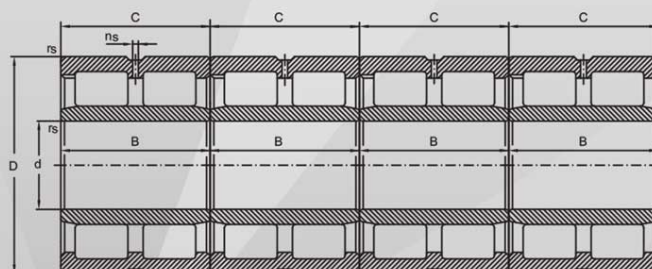
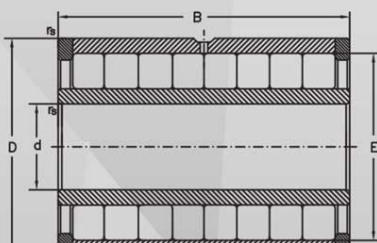
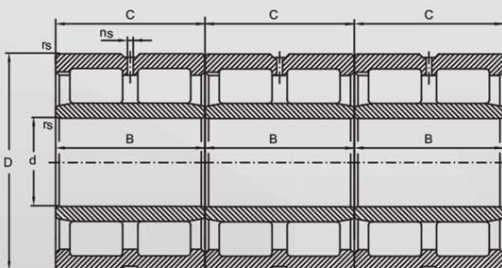
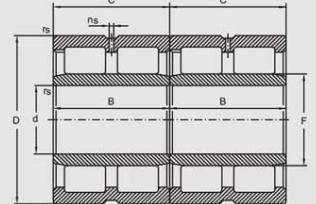
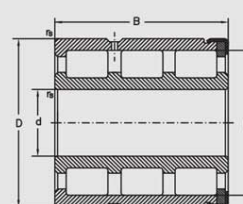
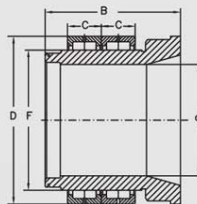
Cylindrical Roller Bearings (Multi Row Rolling Bearings)

CR0113.13 V
 NNU6016 VC3
 4NNU5118 VW33
 491420 M
 3NN5226 VP5
 3NN5126 P6NAS1W26
 3NNU5128 V
 4NNU5129 PMC4W8
 4NNU5232 PMC3
 4NNU5232 PMW8
 4NNU5232 PMC4W8F182
 3NN5234 C3
 4NNU5136 PMW8
 3NN5138 VC3W33
 4NNU5138 PMW8
 3NN5140 VC3W33
 3NNC5140 VW33
 4NNP5240 VC3W8
 4NN5240 VC3W8
 4NNU5140 PMC3W8
 3NN5144 VC3W33
 4NNU5146 PMC4
 4NNU5152 PMC4
 3NN5156 VC3W33
 4NNU5156 PMC3W8
 2xNNU4960 MC3W33
 3xNNU4960 MC3W33
 2xNNU4964 MC3W33
 4xNNU4984 MC3W33



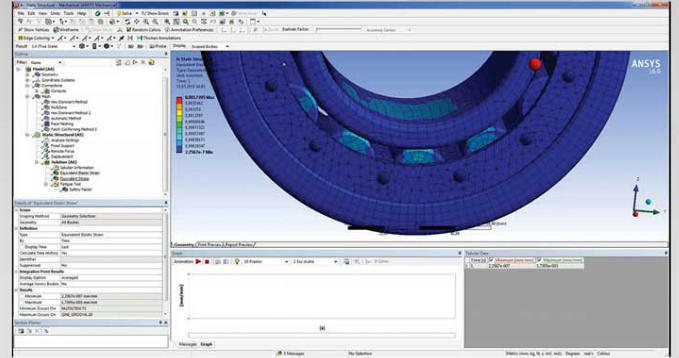
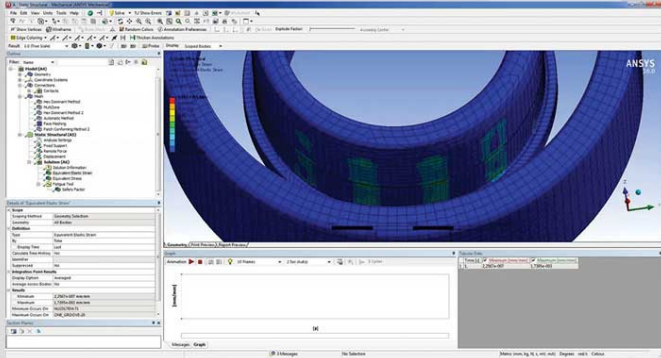
Bearing Code	d	D	B	Application
22220 MBKW33	100	180	4	Travelling Crane
22236 CC5S3W33	180	320	8	Rolling Mill
22318 MBC5S3W33	90	190	6	Furnace Crane Rail
22315 CW33	75	160	5	Gearbox
T 21148 MBC5W33	240	400	16	Rolling Mill

S=3 Special Heat Treatment for operating temperature up to 300 °C

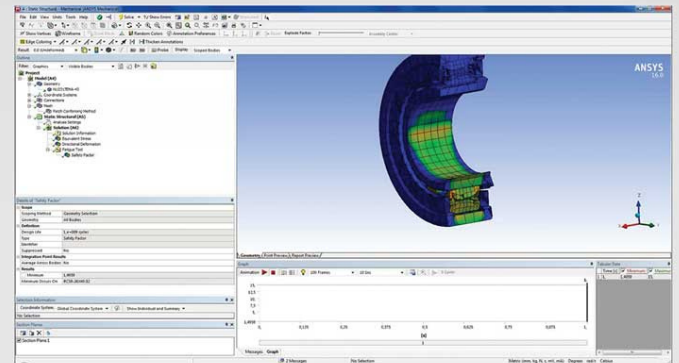


BEARING DESIGN AND ANALYSIS

* The simulations which are made to show how the product workstand behaves in real working environment so it is possible to see the real characteristics of the product during design phase. Simulation-based products development analysis are made with mode analysis, harmonic analysis, short-term addition to the many dynamic work as dynamic analysis and spectrum analysis, tested in conditions of stress and deformation of the above products also includes analyzes conducted to estimate the product's thermal behavior and product life.



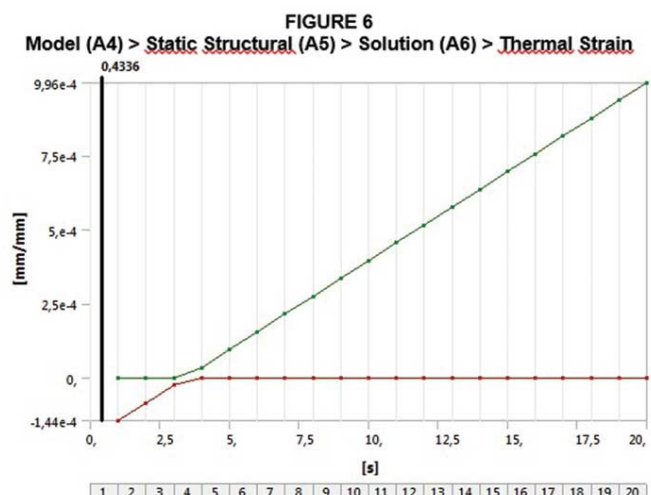
* In our group companies finite element analysis (FEA) for design verification of products are used. The products have been designed with solid modeling, therefore mechanical design and finite element analysis tools provide compatibility with each other.



* Material behavior which cannot be calculated or seen can be easily calculated with finite element analysis in very short time, therefore FEA is accelerating the innovative work of our R-D department.



* Simulation based product developments studies with universities to open new horizons for studies on product development is gaining momentum with each passing day. Objective of the innovative is the creation of reliable and high quality products and processes.



*INDUCTION HARDENED,
GROUND AND HONED BARS*



Precision Bars



New MGM Zrt with experience more than 60 years is besides the production of bearing also producing the induction hardened, ground and honed bars.

PRODUCTS

- DIAMETER $\varnothing 6 \text{ mm} \div \varnothing 60 \text{ mm}$
- MATERIAL Ck45, Ck55, 100Cr6, 42CrMo4(4140)
- LENGHT Standart 6000 mm
or according to customer request
- TOLERANCE ISO h6 or according to customer request
- ROUNDNESS IT/2
- STRAIGHTNESS 0.05 mm/m
- SURRFACE ROUGHNESS Max. 0.025 μm
- SURFACE HARDNESS 63 $\div$ 65 HRC
or according to customer request
- HARDNESS DEPTH 0.4mm $\div$ 4mm



EN	DIN	STAS/SR	AFNOR	B.S.	UNI	JIS	GOST	ASTM/AISI
C45E	Ck45	OLC45X	XC 48	080M46	C45	S45C	45	1045
C55E	Ck55	OLC55X	XC 55H1	070M55	C55	S55C	55	1055
42CrMo4	42CrMo4	42MoCr11	42C4	708M40	42CrMo4	SCM440(H)	-	4140
100Cr6	100Cr6	Rul 1	100Cr6	535 4 H 99	100Cr6	SUJ 2	SH15	52100

MGM Precision bars, standart production materials are CK35, CK45, CK55, 42CrMo4 (4140), 100Cr6 and production range is from Dia 6 mm to Dia 60 mm. Poduction is made according to TS EN 10083, TS 5823 and ISO 683.

BAR PRODUCTION FLOW DIAGRAM

THE TESTS PERFORMED AT OUR LABORATORIES

CHAMFERING

Angle Control

PEELING

Diameter Control

STRAIGHTENING

Straightness Control

SOFT
GRINDING

Diameter and roughness Control

INDUCTION
HARDENING

Hardness, hardness depth
and crack control

HARD
GRINDING

Diameter and roughness Control

POLISHING

Diameter and roughness Control

CUTTING
AND
PACKING

Visual Inspection

Macro structure control

Hardness test (HRC)

Surface Hardness Test

Dimensional Control

Straightness Control



Micro Cleanless Control

Micro Structure Control

Burn and Crack Control

Crack Control with magnetic partical

Fatigue Test



Roundness Control

Magnetism Control

Noise Level Control

Flatness, Parallelism and Runout

Radius Control



MGM Precision bars standart production materials are CK35, CK45, CK55, 42CrMo4 (4140), 100Cr6 and production range is from Dia 6 mm to Dia 60 mm. Poduction is made according to TS EN 10083, TS 5823 and ISO 683.

Chemical Composition

Material	Code	C	Si	Mn	Pmax	Smax	Cr	Mo
Ck45	1.1191	0,42-0,5	Max0,4	0,5-0,8	0,035	0,035	Max0,3	-
Ck55	1.1203	0,52-0,6	Max0,4	0,6-0,9	0,035	0,035	Max0,3	-
100Cr6	1.7225	0,38-0,45	Max0,4	0,6-0,9	0,025	0,035	0,9-1,2	0,15-0,3
42CrMo4	1.3505	0,95-1,10	0,17-0,37	0,2-0,45	0,025	0,02	1,3-1,65	Max0,08

CERTIFICATE

EN ISO 9001 : 2008
Quality Management System

AIB-VINCOTTE International nv/sa
Jan Olieslagerslaan 35, 1800 Vilvoorde, Belgium

This is to certify that **New MGM Termelő Zrt.**

Located at **Gyár u. 2.
2049 Diósd
Hungary**

has established and maintains a quality system according to the requirements of EN ISO 9001 : 2008 "Quality Management System" for:

Manufacturing of bearings.

This certificate is based on the result of a quality audit documented in the audit report REP-R-13-193/TS.

Certificate number: 11 4400a
First issued: 21 February 2011
Valid from 19 February 2014 to 18 February 2017

Further clarifications regarding the scope of this certificate and the applicability of EN ISO 9001 : 2008 requirements may be obtained by consulting the organization.

This certificate is granted during the Certification Commission of 19 February 2014 and is subject to the General Regulations of AIB-VINCOTTE International nv/sa.



Signed for the certification body:

Bart Janssens
Chairman Certification Committee



TANÚSÍTVÁNY

EN ISO 9001 : 2008
Minőségmenedzsment Rendszer Tanúsítvány

AIB-VINCOTTE International nv/sa
Jan Olieslagerslaan 35, 1800 Vilvoorde, Belgium

Tanúsítjuk, hogy a **New MGM Termelő Zrt.**

Címe **Gyár u. 2.
2049 Diósd
Magyarország**

az alábbi területekre kialakított és működtet egy minőségirányítási rendszert, mely megfelel az EN ISO 9001 : 2008 szabvány követelményeinek:

Gördülő csapágycsapatok gyártása.

A tanúsítvány az számú Minőségirányítási Rendszer Audit Jelentés alapján.

Tanúsítvány száma: 11 4400a
Első kiadás időpontja: 21 február 2011
Érvényes 19 február 2014 -től 18 február 2017 -ig

A tanúsítvány a Tanúsítási Bizottság 19 február 2014 -i ülésén az AIB-Vincotte International nv/sa Általános Szabályzata szerint állították ki.



Kiállító tanúsító testület:

Bart Janssens
Tanúsító Bizottság Elnöke



CERTIFICATE

ISO/TS 16949 : 2009
Quality Management System
Excluding Product Design

AIB-VINCOTTE International nv/sa
Jan Olieslagerslaan 35, 1800 Vilvoorde, Belgium

This is to certify that **New MGM Termelő Zrt.**

located at **Gyár u. 2.
2049 Diósd
Hungary**

has established and is maintaining a Quality Management System which is in accordance with the requirements of ISO/TS 16949 : 2009 and having been audited in accordance with the "Rules for the registration scheme for ISO/TS 16949 : 2009 - Third edition" for:

Manufacturing of bearings.

This Certificate is based on the result of an audit documented in report REP-R-13-193/TS

Certificate number: 11 4399a
IATF number: 0179787
Date of issue: 19 February 2014
This certificate expires on: 18 February 2017

This Certificate is granted subject to AIB-Vincotte International's nv/sa General Regulations on Management Systems Certification.



Signed for the certification body:

Bart Janssens
Chairman Certification Committee



TANÚSÍTVÁNY

ISO/TS 16949:2009
Minőségmenedzsment Rendszer Tanúsítvány
(kivételek terméktervezés)

AIB-VINCOTTE International nv/sa
Jan Olieslagerslaan 35, 1800 Vilvoorde, Belgium

Tanúsítjuk, hogy a **New MGM Termelő**

Címe **Gyár u. 2.
2049 Diósd
Magyarország**

kialakított és működtet egy Minőségmenedzsment Rendszert, mely összhangban áll az ISO/TS 16949 : 2009 követelményeivel, és a 2013 október 1-jén kiadott ISO/TS 16949 : 2009 regisztrációs eljárás szabályai - Negyedik kiadás -sal összhangban lett auditálva az alábbiakra:

Gördülő csapágycsapatok gyártása.

Ez a Tanúsítvány a REP-R-13-193/TS számú jelentésben dokumentált audit eredményei alapján lett kiállítva.

Tanúsítvány száma: 11 4399a
IATF szám: 0179787
Kiadás időpontja: 19 Február 2014
Érvényessége: 18 Február 2017

Ez a Tanúsítvány az AIB-Vincotte International Ltd. Menedzsment Rendszerek Tanúsítására Vonatkozó Általános Szabályzatának megfelelően lett kiállítva.



Kiállító tanúsító testület:

Bart Janssens
Tanúsító Bizottság Elnöke



RAILWAY

OIL INDUSTRY

ENERGY



Factory

New MGM Co.Ltd.

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