



BEARING MANUFACTURING INDIA

COMPANY PROFILE

- > think non-standard
- > think sphericals
- > think special
- > think taper



think **bmi**[®]



BMI may not be the biggest or highest ranked bearing company in India, but...

We are #1 in meeting the service & delivery requirements of our clients



20+
Countries
Export



2000+
Sizes In Stock



100+
Employee
Strength



1000+
Satisfied
Customers



3 Awards
from EEPC for
Best Exports

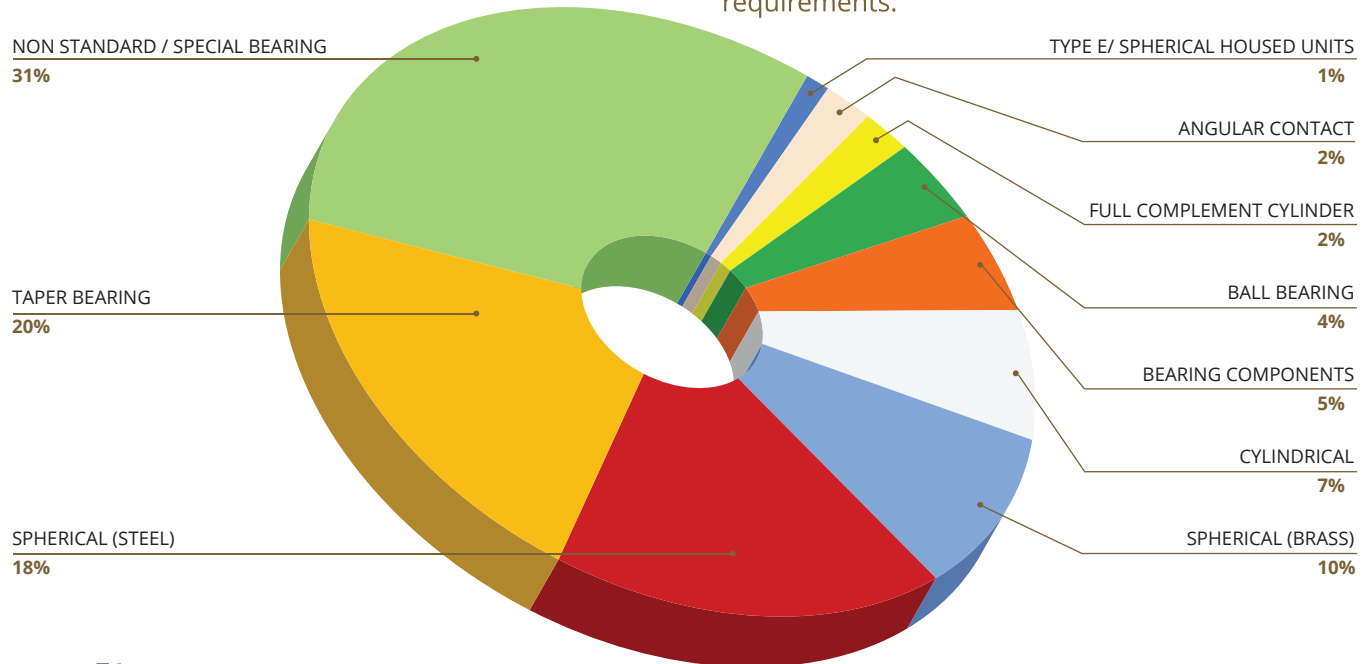


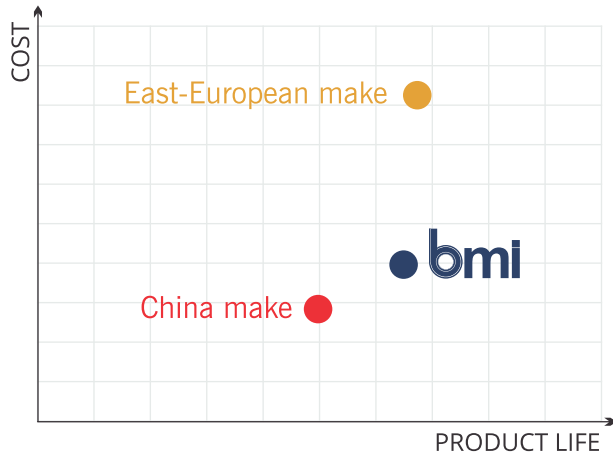
**Largest SME
Exporter of bearings
from India**

Sales percentages by bearing type

BMI's clients for the **export** market show a **high demand** for our Taper roller and Spherical roller bearings.

Our **strong R&D department** has also proved its merit with the high percentage of sales for our **Non Standard / Special bearings** developed for custom requirements.

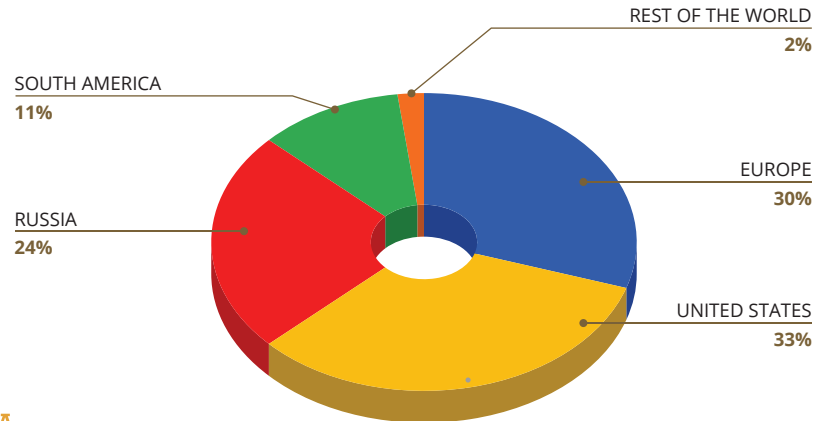




The competition and BMI

BMI offers the best value for total cost of ownership compared to european make bearings

Region based export statistics



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> quality &
> raw materials

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BEARING MANUFACTURING INDIA

Raw Material

Rings & Rollers

- SAE 52100 / 100 Cr6

For special applications 100CrSiMn6 or other grades are also used

- Vacuum degassed route steel

- Less than 10% ppm oxygen controlled steel

Steel Cage - CRCA strips

Brass Cage - CuZn40Pb2

Crowning Profile

Based on the application and customer requirement BMI can design and manufacture as per the profile to ensure long life.

Heat Treatment

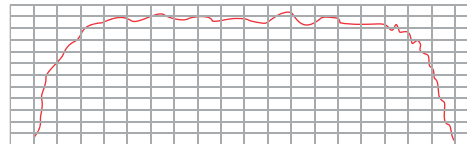
Through hardened (heat treatment is done for most of the applications) but for **special applications bainitic and other heat treatments** are also done. 3rd party laboratory **reports for annealing and hardening** are also provided with each production batch **on request**.

We can produce C2, C3, C4 or C5 clearance bearings on request.

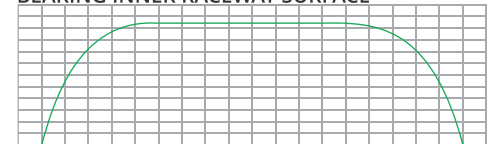
100% boundary dimension (bore, outer diameter, & width) **& clearance inspection is done for the entire production.**

Below is an **example of incorrect and correct profiles** when checked on the **Taylor Hobson instrument**.

NON-OPTIMISED RACEWAY SURFACES



LOGARITHMIC TRACK ON TAPER ROLLER BEARING INNER RACEWAY SURFACE



Super finishing of raceways to achieve less than 0.2 Ra value

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> research &
development

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48th EEPC India
National Award in 2017

49th EEPC India
National Award in 2018

EEPC India
Highest Growth Award
2018-19

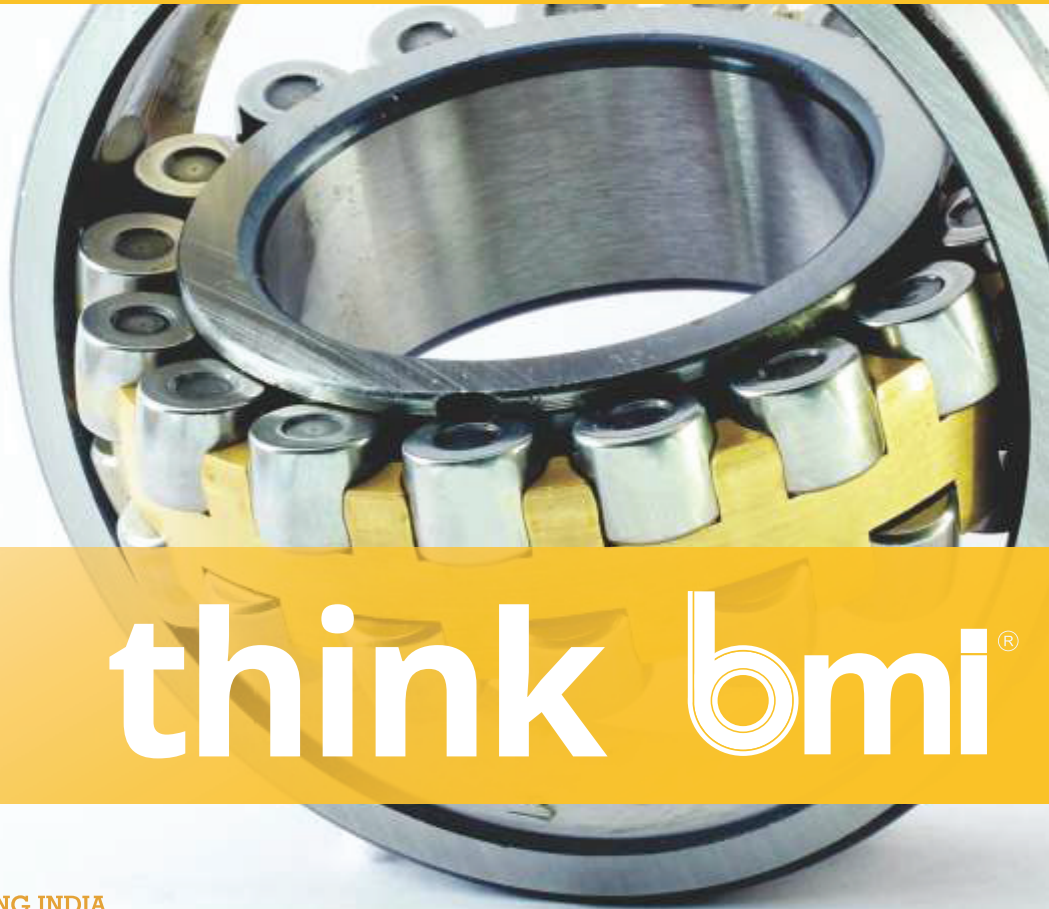
Awarded 3 times by EEPC* for Export Excellence in Bearings category

*Engineering Export Promotion Council of India

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Spherical Roller Bearings



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Spherical Roller Bearings

Steel & Brass cages both available
European equivalent to E type design

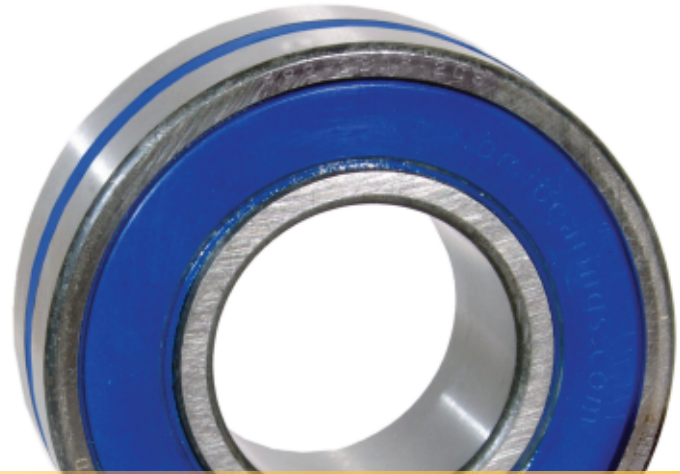
Range: (Plain & Taper Bore)

21304 CCW33	to	21322 MBW33	23024 CCW33	to	230/500 MBW33
22205 CCW33	to	22260 CCW33	23120 CCW33	to	231/500 MBW33
22205 EW33	to	22222 EW33	23218 CCW33	to	232/500 MBW33
22208 MBW33	to	22272 MBW33	23852 MBW33	to	238/500 MBW33
22308 CCW33	to	22340 CCW33	23936 MW33	to	239/500 MBW33
22307 MBW33	to	22380 MBW33	24024 MW33	to	240/500 MBW33
22308 EW33	to	22322 EW33	24124 MW33	to	241/500 MBW33

All sizes upto 200mm bore in stock in India

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Sealed Spherical Roller Bearings



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Sealed Spherical Roller Bearings

Lithium complex EP grease from SKF (LGWA 2/1) grease is used for higher than normal life expectancy of the bearing.

Range: *(Plain & Taper Bore)*

BS2-2206-2CS to BS2-2222-2CS
BS2-2308-2CS to BS2-2322-2CS

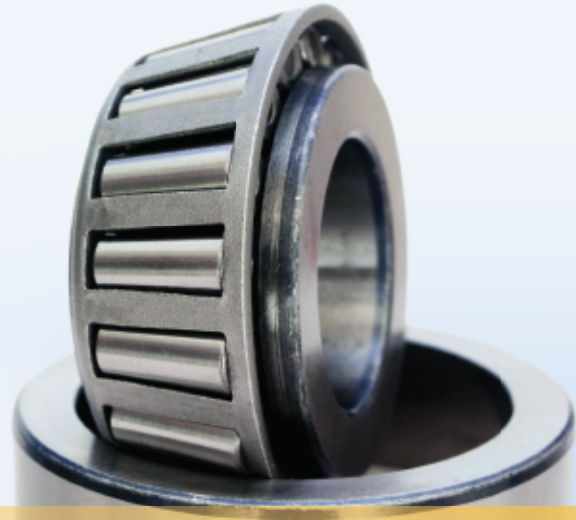
Complete range **in stock**

✦ *Additional sizes can be developed on request.*



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Taper Roller Bearings



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BEARING MANUFACTURING INDIA

Taper Roller Bearings

Case Carburized Taper made on request
Crowned Cups, Cones and Rollers

More than **600 sizes** in **inch taper** bearings manufactured

Range: (in mm.)

30202A	to	30260A
30302A	to	30352
31303A	to	31330A
32004X	to	32064X
32204A	to	32260
32305A	to	32324A
33009	to	33024
33108	to	33122
33205	to	33220
32908	to	32972
T2EE040	to	T4EB240







Matched Taper Roller Bearings Pair

- *Face to Face*
- *Back to Back*
- *Tandem*



Metric tapers upto 150 mm bore in stock

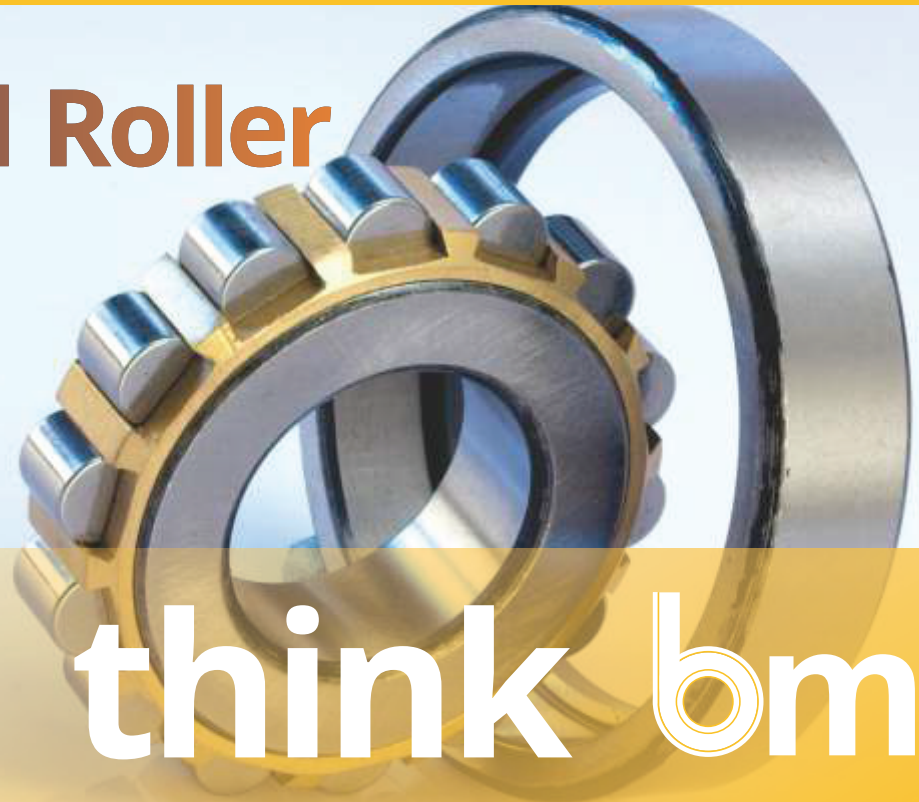
BMI uses the superior method of logarithmic crowning for cups and cones

	LIGHT LOAD	HEAVY LOAD	HEAVY LOAD & MISALIGNMENT
Logarithmic Crowning			
Straight			

 *interchangeable cups and cones manufactured*

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Cylindrical Roller Bearings



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Cylindrical Roller Bearings

Crowned Rollers and Raceways

Steel & Brass Cage for regular production



Range:

N-NU-NJ-NUP 204E	to	248E
N-NU-NJ-NUP 304E	to	348E
N-NU-NJ-NUP 405E	to	420E
N-NU-NJ-NUP 2205E	to	2244E
N-NU-NJ-NUP 2304E	to	2344E
NH 318 E	to	NH 330 E
NU 1008 EM	to	NU 1060 EM
NU 5206 M	to	NU 5260 M
NCF 3004 CV	to	NCF 3015 CV
NNG 2305 VH	to	NNG 2320 VH
NN 3005	to	NN 3060 K
NNU 4918	to	NNU 4960 K

* inch series manufactured on request

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Angular Contact Bearings



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BEARING MANUFACTURING INDIA

Angular Contact Bearings

Flush ground & universally matched pairs also in regular production

BECBM, BECBY, BECBJ, BECBP universally matchable

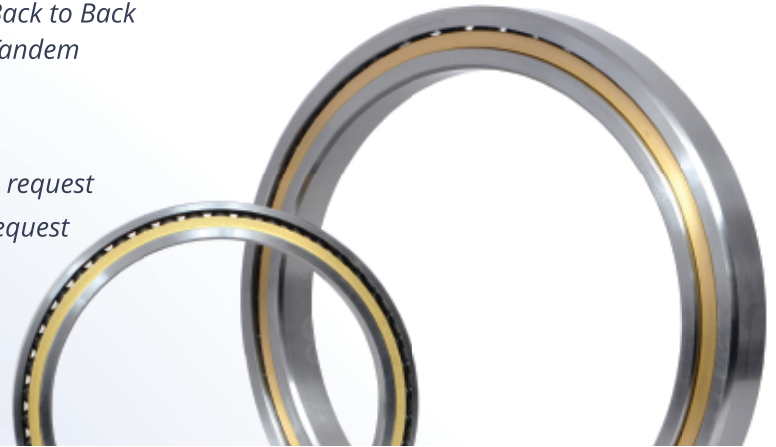
Range:

7000B to 7030B
7200B to 7248B
7302B to 7338B

Matched Pair

- *Face to Face*
- *Back to Back*
- *Tandem*

- * *Also available in ZZ & 2RS*
- * *ALS, AMS, XLJT manufactured on request*
- * *P4/P5 class bearings made on request*



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CARB Toroidal Bearings



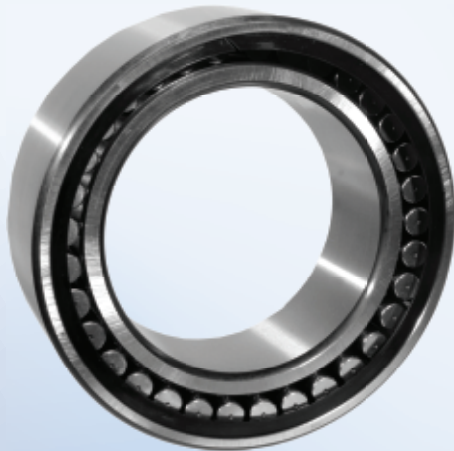
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CARB Toroidal Bearings

BMI engineers have developed an entire range designed to accommodate exclusively radial loads - similar to European brands - for several steel & paper mill applications.

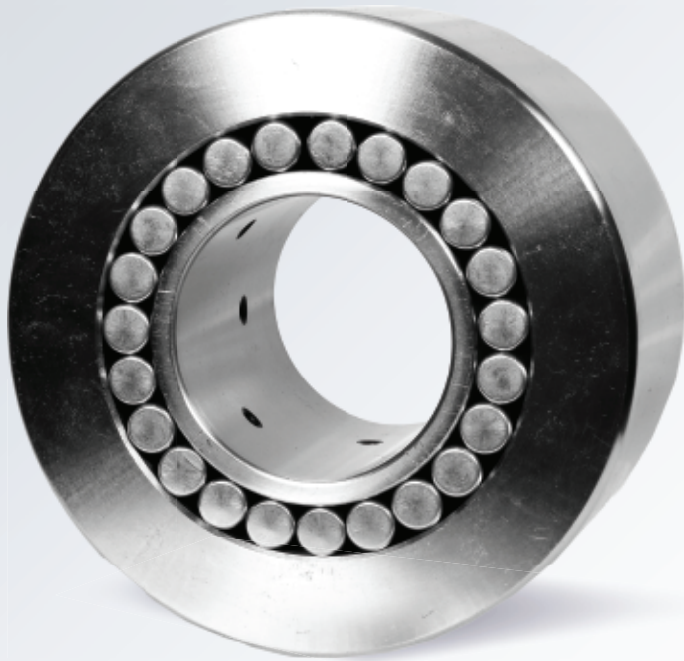


Features & Benefits:

- Accommodate mis-alignment
- Self aligning like spherical roller bearings & self aligning ball bearings
- Accommodates axial displacement
- Long service life
- Low friction improved wear resistance

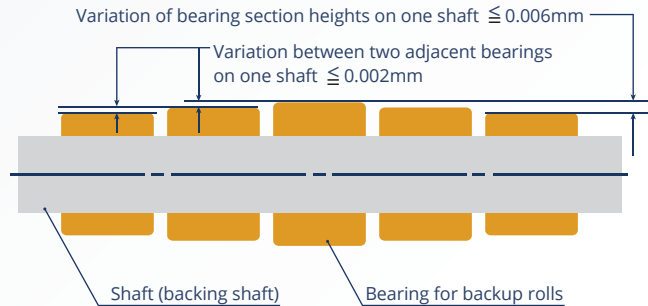
Range:

C2200 series
C4000 series



Sendzimir Mill Bearings

By ensuring that high precision in both the variation of the bearing's section heights and high rotation accuracy is achieved for optimum distribution of the bearing loads and supporting the development in rolling precision and the quality of the coils



Non Standard Bearings

BMI has a very strong team of engineers from SKF, FAG and other renowned companies working with OEM to develop special bearings as per their application and requirements.

PLANETARY GEAR BOXES



Double Row Cylindrical
Without Outer

STEEL



Cylindrical Roller Wheels
for Conveyor

AGRICULTURE



Square Bore Double Row
Taper Roller Bearings

OIL & GAS



Black Oxidised
Coated Bearing



Custom Bearings
for Propellor Shafts

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Mounted Spherical Roller Bearings



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BEARING MANUFACTURING INDIA

Mounted Spherical Roller Bearings

Drop-In

Interchanges with:

- ✓ **Dodge S2000**
- ✓ **Browning SPB1000**
- ✓ **Linkbelt PB22400**
- ✓ **Rex ZA2200**
- ✓ **SKF SYR**

Shaft Expansion

Available in Non-expansion (fixed) and Expansion (floating)

Locking Collar

Use of mild steel collar ensures precision threads, maximizing setscrew grip.

Sturdy Housing

A one-piece cast iron housing has strength to handle rough applications.

Double-Lip Seals

Extra protection against contamination, but still allow high speed operation.

Self-Aligning

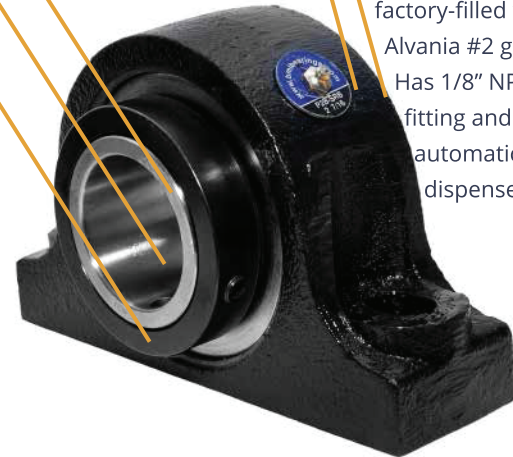
Internally self-aligns to accommodate changes in shaft and machinery alignment for maximum bearing life.

Easy to Reorder

Removable metal tag makes reordering easy.

Ready for use Out-of-Box

Bearing cavity is 33% factory-filled with Shell Alvania #2 grease.
Has 1/8" NPT grease fitting and also fits automatic grease dispensers.



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Type-E Taper Bearing



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Type E Taper Bearings

Features

1. Uses high capacity taper roller bearings
2. ASTM A48 class 3 cast iron housing Pillow Block, Flange and Piloted Flange version available.
3. Shaft size 1" to 4"
4. Dimensionally interchangeable with industry standard Type E bearings
5. Variety of configurations allow maximum application flexibility.
6. Improved sealing for better life in dusty & wet environments.

Material

High quality clean steel

Manufacturing features

- Cone roundness
- Concentricity race to race
- Assembly cleanliness

From the bearings, seals, grease to housing our innovative design incorporates features that can help withstand the most demanding application - resulting in less downtime, reduced maintenance and lower cost of ownership.



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Full Complement Cylindrical Roller Bearings

Range:

NNF 5004 - 5044

NCF 2204 - 2244

NCF 2904 - 2944

NCF 3004 - 3044

NNC 4810 - 4844

NNC 4910 - 4944

NNCF 4910 - 4944

NNCF 5004 - 5044

NNCL 4908 - 4944

NNCL 4808 - 4844



Deep Groove Ball Bearings

Range: (Plain ZZ & 2RS)

6000	to	6060
6200	to	6240
6300	to	6334
6403	to	6420
16004	to	16052
61800	to	61880
61900	to	61996

✦ *RLS, RMS, XLJ available from stock*



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Bearings for Steel Industry



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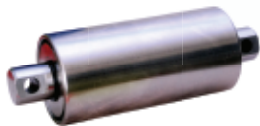
Backup Bearings With Taper Rollers



On request the outer diameter can be manufactured with cylindrical or curved shape.

Tapered roller backup bearings are in mm & inch dimension and mounted on sheet metal levelling machines operating under heavy working conditions.

Backup Roll With Shaft



BMI guarantees the perfect interchangeability with the original bearings.

Backup roll with shaft ensures wide working surface along with rolling system made of two or more cages allowing the plant to reach very high flattening performance at high speed. The distance rings allow a good support of axial loads.

Flexible Roller Bearings



Flexible bearings meet requirements of Steel Mill industries

Applications

- Hot Rolling mills
- Pigcast Conveyors
- Continues casting rolls
- Conveyor furnaces

Material

Wear resistant quenched and tempered steel to ensure long life

Advantages

- Sustains high temperature
- Heavy shock load
- Ease of filling and dismantling
- Compact design
- Low sensitivity to dirt

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