

ISO 9001 CERTIFIED COMPANY

- > think non-standard
- > think mounted units
- > think sphericals
- > think taper

think bmi[®]



20+
Countries
Export



2000+
Sizes In Stock



100+
Employee
Strength



1000+
Satisfied
Customers



4 Awards
from EEPIC for
Best Exports



**Largest SME
Exporter of bearings**
from India

ISO 9001 certified company

> milestones

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2022 Subsidiary BMI Bearings USA Inc to support sales in North American market

2017 Exporting to more than 20 countries across the world

2010 Expanded into a bigger facility to manufacture up to 300,000 per month

2004 Exports to Germany, USA and several other countries

2000 Made first export shipment to Poland Europe

1998 Started Manufacturing Unit for bearings in Gujarat, India

1990 Started direct imports from Romania, Czech Republic, Poland & Russia

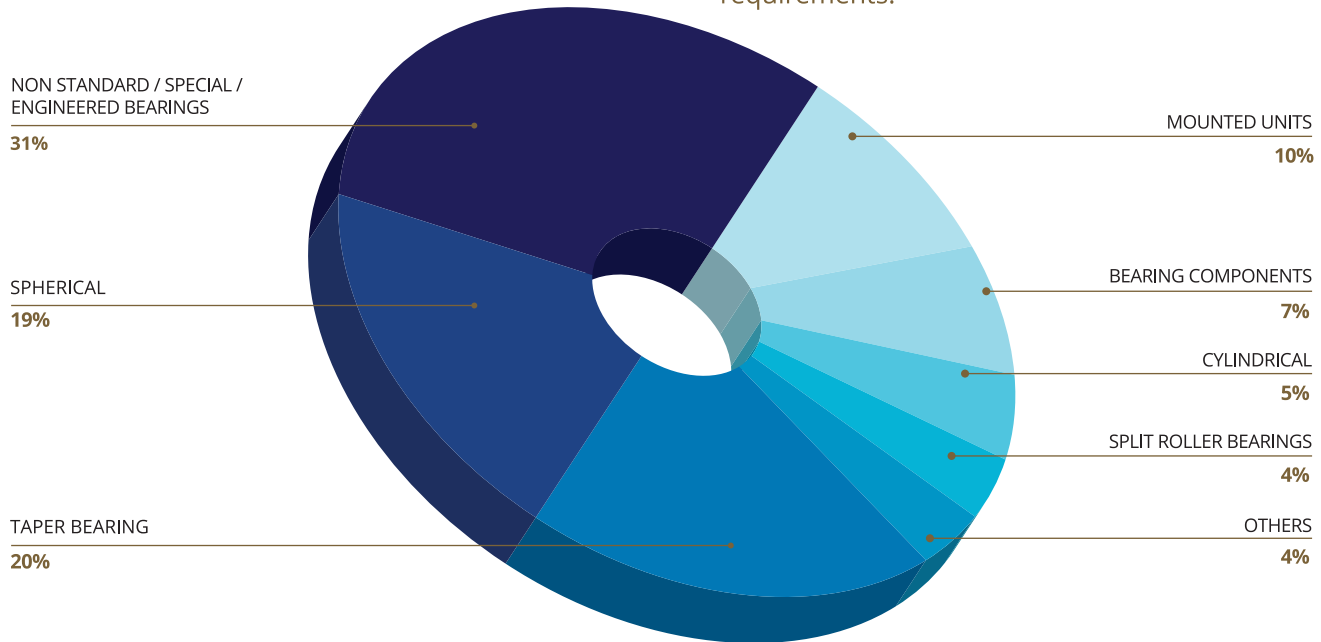
1982 Expanded into distribution of bearings all across India

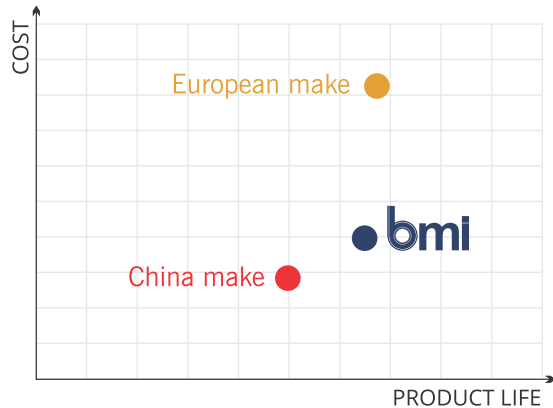
1974 Started as a bearings supplier in Mumbai, India

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.

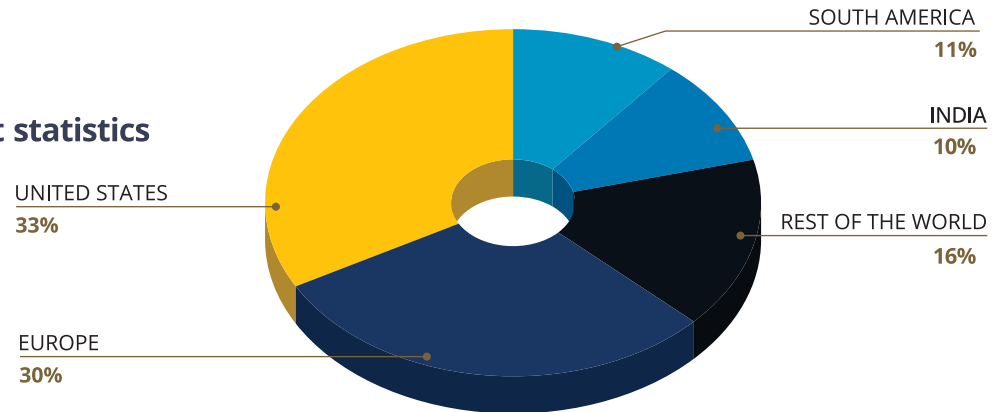




The competition and BMI

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

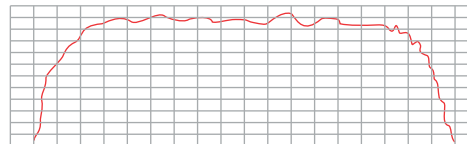
Through hardened (heat treatment is done for most of the applications) but for **special applications bainitic and other heat treatments** are also done. 3rd party laboratory **reports for annealing and hardening** are also provided with each production batch **on request**.

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

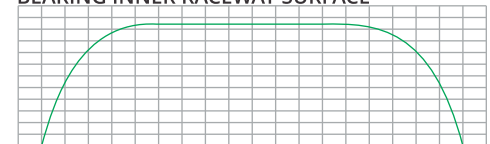
100% boundary dimension (bore, outer diameter, & width) **& clearance inspection is done for the entire production.**

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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> design &
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



EEPC India
Star Performer Award
2020-21



EEPC India
Star Performer Award
2021-22

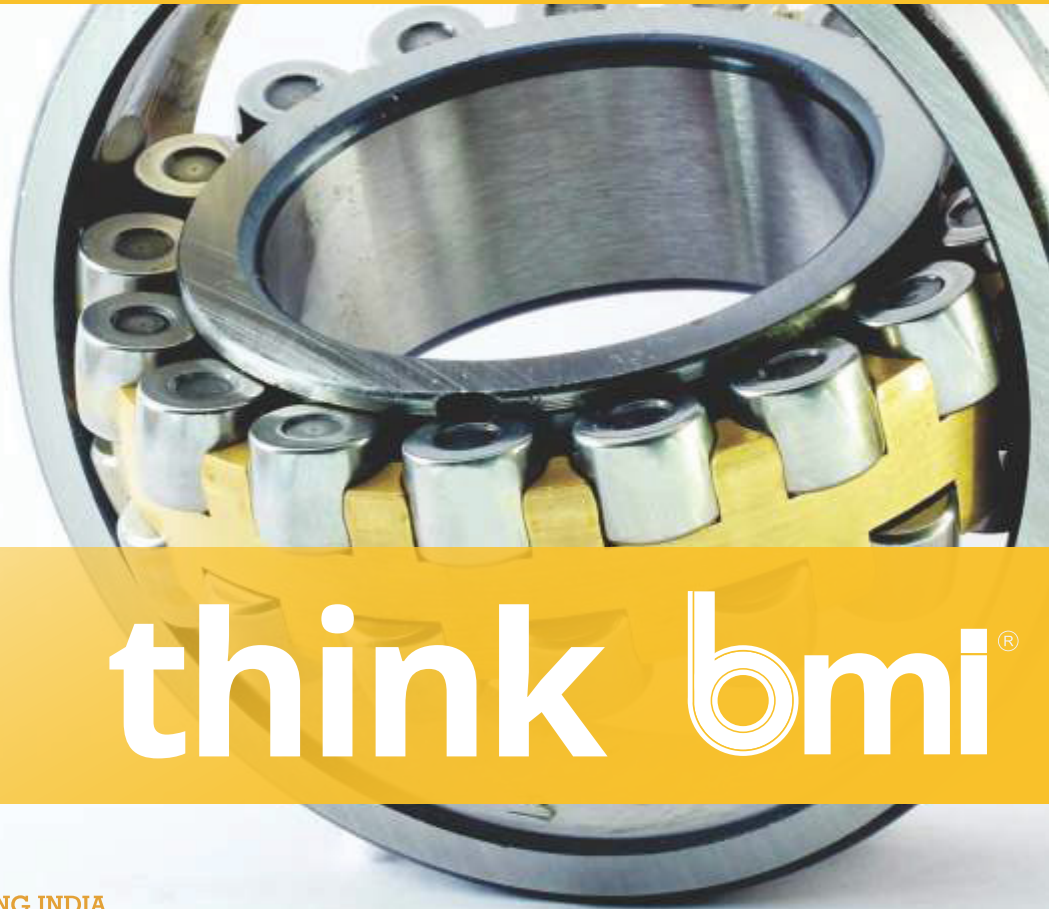
**Awarded 5 times by EEPC*
for Export Excellence
in Bearings category**

*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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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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Sealed Spherical Roller Bearings

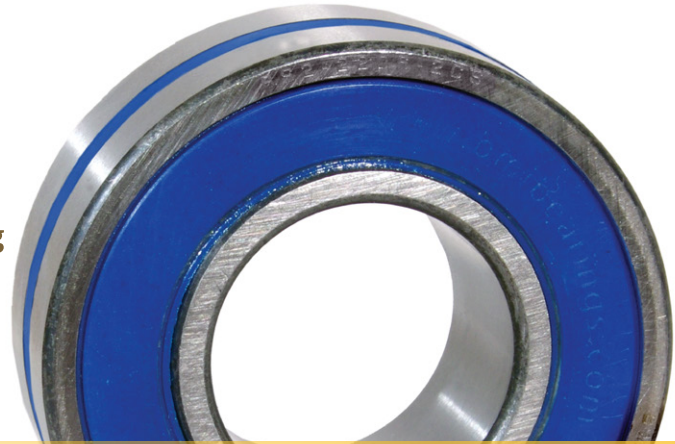
Lithium complex EP grease from SKF (LGWA 2/1) grease is used for higher than normal life expectancy of the bearing

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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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

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

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

Range:
C2200 series
C4000 series

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



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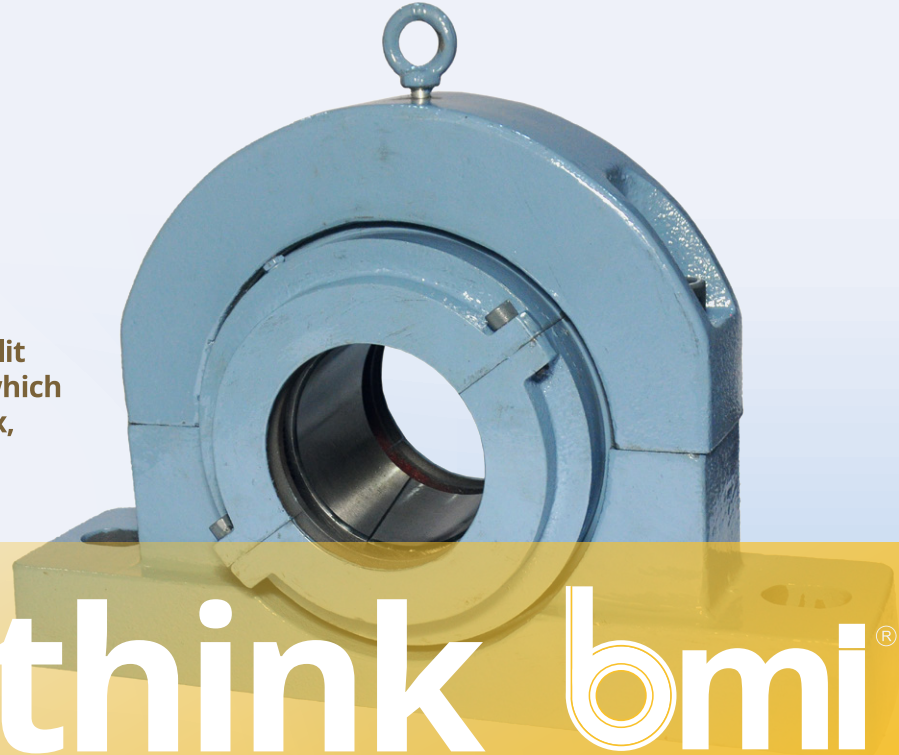
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Split Roller Bearings

BMI manufactures different types of Split Roller Bearings for critical application which eliminates removal of coupling, gearbox, pulley and simplifies shaft design.

BMI has the entire range of **shaft sizes upto 300mm (inch and metric both)** in light and heavy series.



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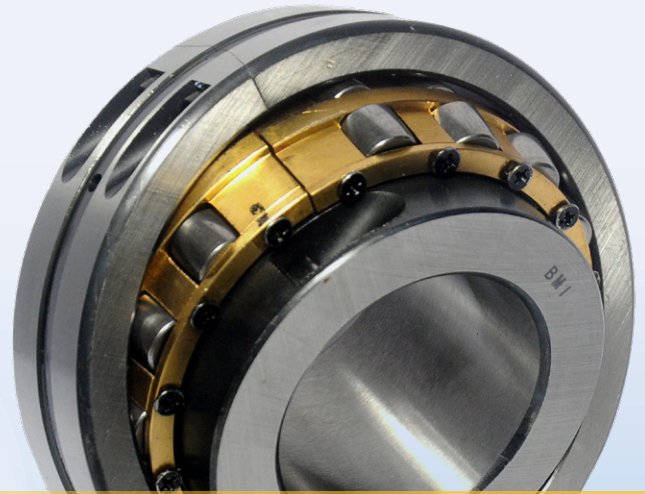
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Split Spherical Roller Bearings

Designed at BMI for simplified installation and replacement, fitting easily into various machinery without modifications.

The bearings have a split solid cage made from glass fibre reinforced polyamide or brass cage.

Our comprehensive range contains shaft diameters from 50mm to 300mm in 222, 230 & 231 series



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Cam Follower Bearings

BMI Camfollowers are designed to run on all tracks and to be used in cam drives, conveyor systems and several other applications.

BMI Cam followers are available in the following 3 designs:

Features:

- KR
- NUKR
- PWKR
- Accommodates high radial load
- Accommodates axial load
- Easy to mount

All 3 designs have the same main dimensions with different stud designs.



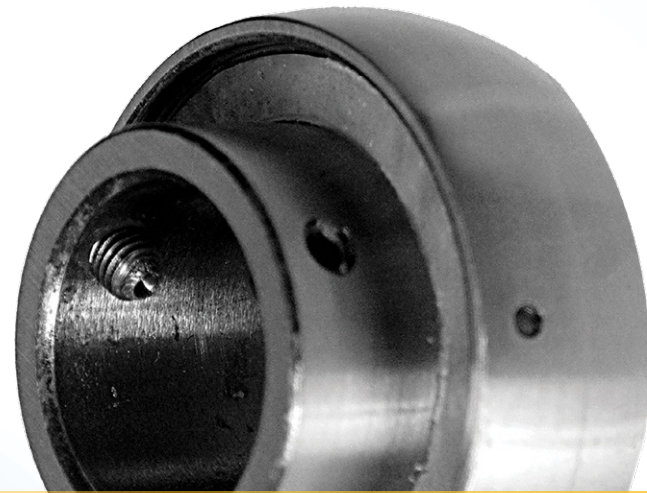
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Solid Lube Bearings

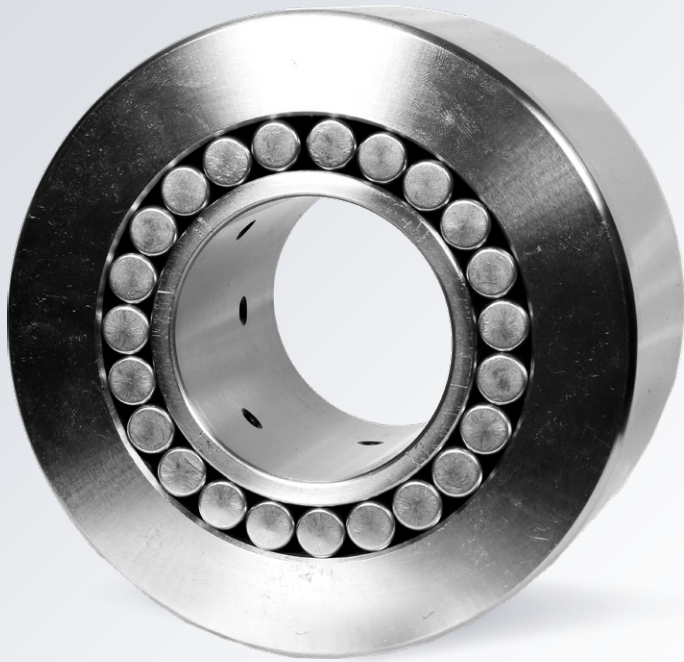
Bearings for food processing industry
engineered to be lubricated for life

Features & Benefits:

- Long Service Life.
- Extended Lubricant life
With solid lube a large amount of oil is available.
- Eliminates lubricant leakage.
- Protects against contaminants.

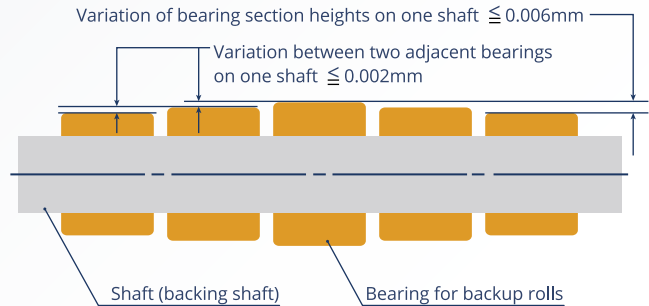


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Sendzimir Mill Bearings

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 / Engineered 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.



Black Oxidised
Coated Bearing



Custom Bearings
for Propellor Shafts

STEEL



Cylindrical Roller Wheels
for Conveyor

AGRICULTURE



Square Bore Double Row
Taper Roller Bearings

PLANETARY GEAR BOXES



Double Row Cylindrical
Without Outer

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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

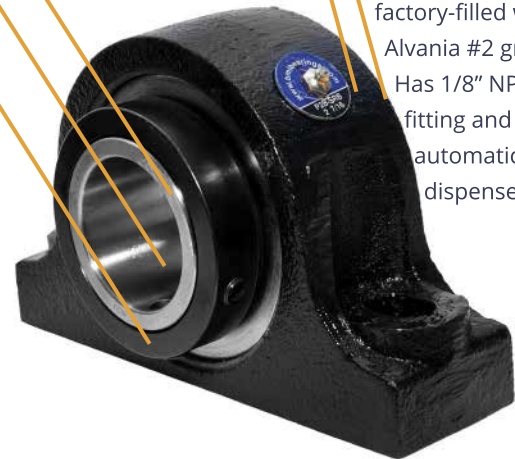
Internally self-aligns to accommodate changes in shaft and machinery alignment for maximum bearing life.

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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bmi®
Since 1974

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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



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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