



## National Engineering Industries



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# Contents

## S.No. Item

- 1 | CK Birla Group
- 2 | NBC bearing introduction
- 3 | NBC bearings application
- 4 | NBC international footprint
- 5 | Kinex bearings
- 6 | Product-range
- 7 | Quality certifications & awards
- 8 | Our customers
  - a Automotive OEMs
  - b Railways
  - c Industrial sector
- 9 | Why choose us?



## CK Birla Group at a glance



157 years of  
strong heritage



Emphasis on nation building  
and community development



Fast growing \$2.4  
billion conglomerate



Long standing successful  
partnerships



Focus on nurturing and  
developing talent



Driven by five  
Core values



# CK Birla Group - Creating Impact In India and The world

Set up the first car manufacturing plant



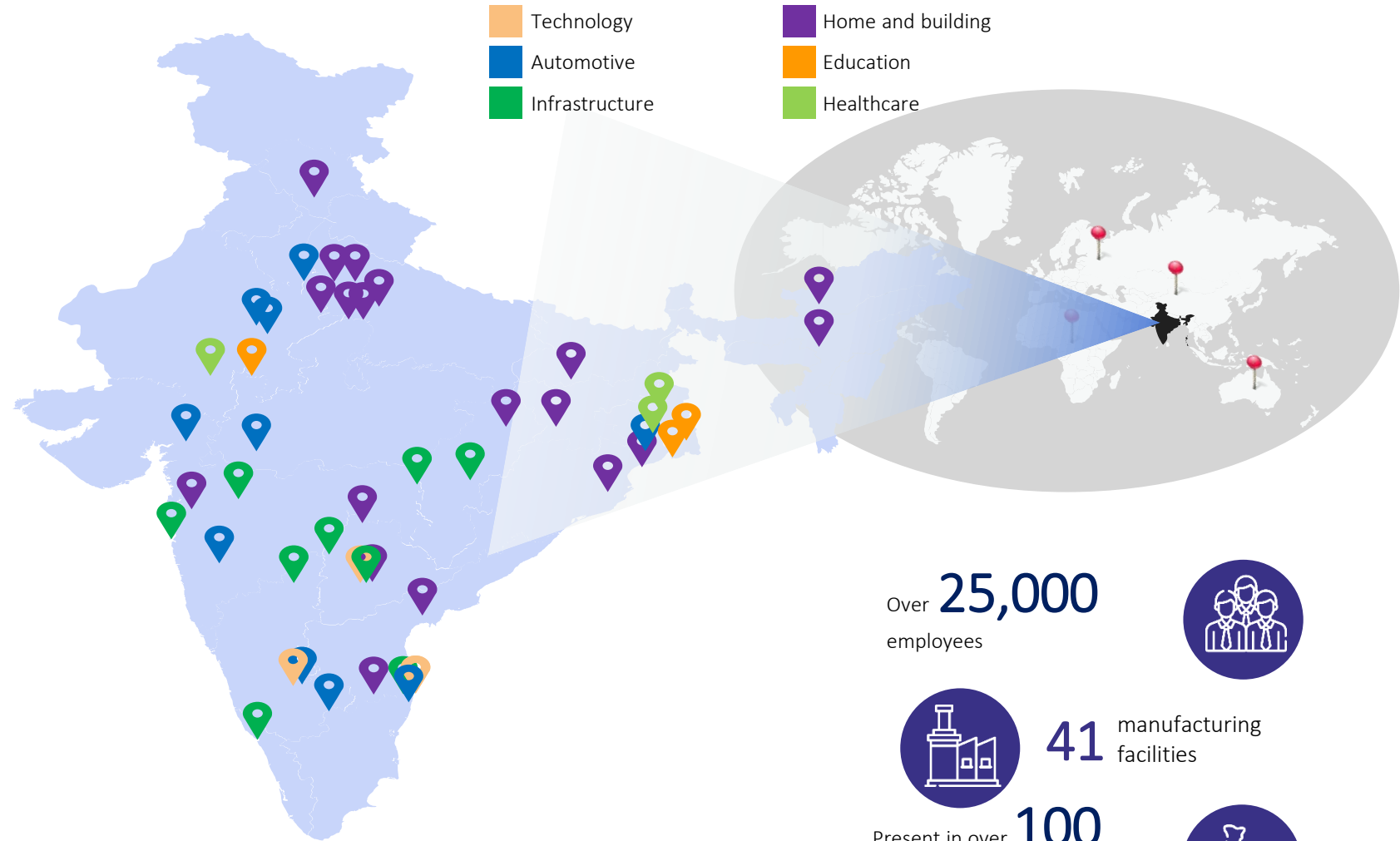
First in the country to manufacture bearings



Pioneer in durable roofing solutions



First bearing manufacturer globally to have bagged Deming Grand Prize



Over **25,000**  
employees



**41** manufacturing facilities

Present in over **100**  
Cities in India



# A journey of Business Excellence

## Automotive



India's largest bearing manufacturer for automotive, railway, and industrial applications



India's largest integrated powertrain manufacturer along with manufacturing of precision-engineered products



Leading iron castings manufacturer serving the automotive, agriculture, earthmoving and engineering industries

## Infrastructure



Leading cement Manufacturer operating for all industrial, residential, commercial constructions



World class player in Infrastructure development; Manages sales and support of engines, equipment for mining, construction and road-laying activities

## Home & building



One-stop brand for lifestyle electrical solutions with a diverse portfolio of fans, lighting, home appliances, switchgears being India's largest exporter of fans



Pioneer in durable roofing solutions; Largest manufacturer of fiber cement roofing sheets in India



Leading paper manufacturer; Produces a wide range of writing, printing, industrial and speciality papers, paper products and boards

## Technology



Global IT solutions provider with deep expertise in Digital having presence in United States, Europe, Asia-Pacific and India

## Healthcare



A chain of world-class hospitals focused on the healthcare needs of women

# India's Leading Bearing Manufacturer and Exporter



**1946**

India's first  
Bearing manufacturer



**200+**

Million Bearings  
manufactured/annum



**2300+**

Sizes  
bearings offered



**5**

Manufacturing  
locations



**Leading  
Exporter**



**30+**

Countries  
customers spread



**Leading  
R&D and  
Innovation Centre**



**2800+** People

# NBC Bearings applications

## Automotive



2/3 Wheelers



Cars



Trucks



Tractors



Trailers

## Industrial



Electric motors



Heavy engineering plants



Bulldozers



Power plants



Cement plants

## Railways



Wagons



Coaches



Locomotives





# Our Milestones

**NBC BEARINGS**

National Bearings Company Limited (NBC) founded in Jaipur by Late Sh. B M Birla.

Company is renamed National Engineering Industries Limited (NEI); NBC Trademark retained



Technical collaboration with BRENCO, USA, for Cartridge Taper Roller bearings

ISO 9001 Certification

1996 : Technical Collaboration with IZUMI, Japan

2003 : TS 16949 Certification achieved

AAR Certification achieved

ACMA Award : Overall Recognition for Manufacturing Excellence & Technology

2016: ACMA Award: Excellence in Supplier Development

Industry 4.0 journey, GPTW Certified

Jaipur plant IGBC Platinum certified



1946

Ball bearing production started



1950



1958

Tapered Roller Bearing Division launched



1967



1982

Technical collaboration with NTN, Japan



1985



1995

ISO 14001 & QS 9001 Certification



2000



2006

2007 : TPM Excellence Award

2010 : Deming Application Award



2010



2012

NBC becomes the only bearing manufacturing company in the world to achieve Deming Grand



2015



2017-18

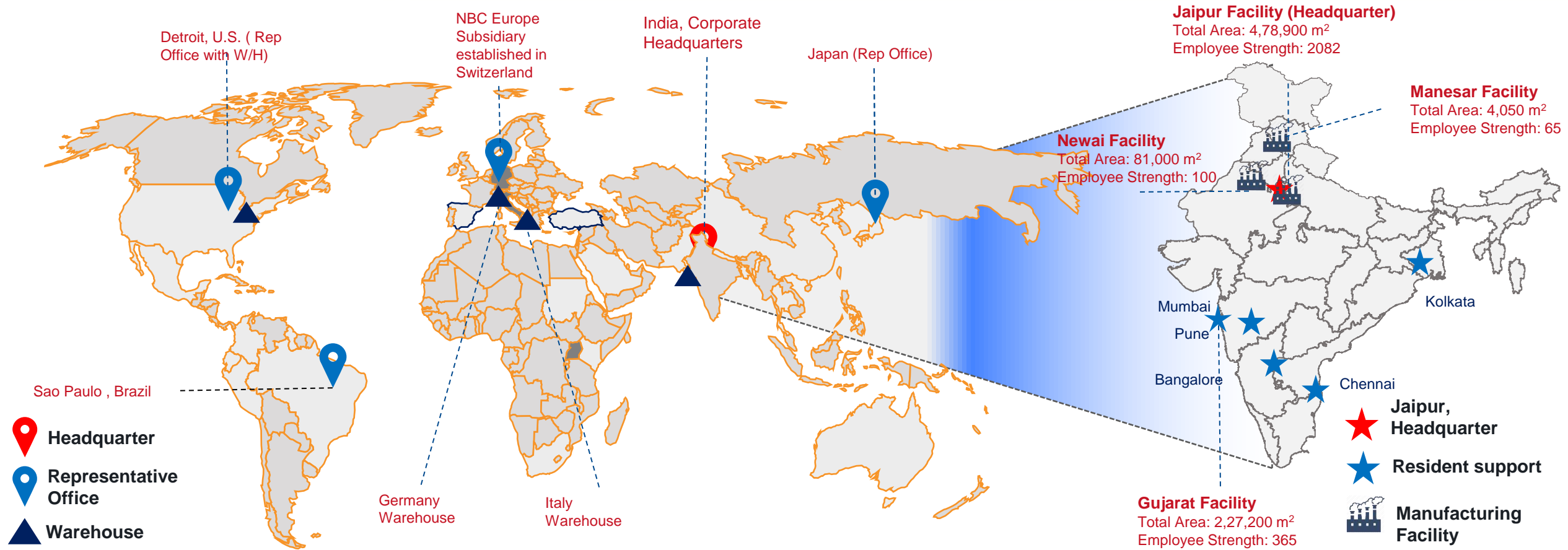
Acquired Kinex Bearings, Europe

Launched Needle Roller Bearings

GPTW Top 100 companies to work for



# Global presence and operational footprint



**Channel Partners in**  
Vietnam, Ecuador, Colombia,  
Uganda, Sudan, Kenya,  
Bangladesh, Nepal, Srilanka

**International offices in**  
USA, Germany, Japan and Brazil

**500 stockist and**  
**10,000+ Retailers in India**

**Headquartered in Jaipur**  
with company representatives  
located in  
Delhi, Mumbai, Pune, Chennai,  
Kolkata, Chandigarh and

## Exporting to over 30 Countries





# Introduction to KINEX BEARINGS

NBC acquired Kinex bearings in January, 2020

- Headquartered in Bytca, Slovakia
- Over 100 years of history in engineering

## COMPANY STRUCTURE

Bearings Machinery

## HISTORY AND TRADITION

The plant in Bytča has over 100 years of tradition in engineering industry

## APPLICATIONS

- **Automotives:** 2/3 wheelers, Cars, Trucks Tractors and Trailers
- **Industrial :** Electrical motors, Heavy Industrial Plants, Bulldozers, Power plants and cement Plants
- **Railways:** Wagons, Coaches and locomotives





# PRODUCT RANGE



# Product Range

## Ball Bearing



**Deep Groove**  
10 ~ 225 mm OD



**DRAC Bearing:**  
50 ~ 80 mm OD



**Angular Contact:**  
30 ~ 150 mm OD



**Self Aligning**  
26 ~ 200 mm OD

## Taper Roller Bearing



**Taper**  
30 ~ 200 mm OD



**Unitized Bearing**

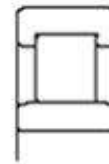
## Cylindrical Bearing



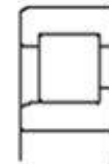
**Cylindrical Roller**  
30 ~ 200 mm OD



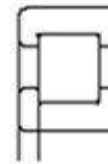
**Bearing (Cage-less)**



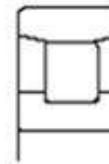
NU



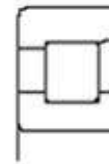
NJ



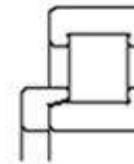
NUP



N



NF



NH

## Spherical Roller Bearing



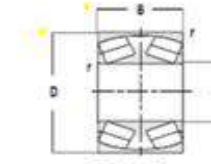
**Spherical:**  
80 ~ 300 mm OD



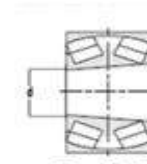
**With Brass cage**



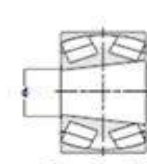
**With Steel cage**



Cylindrical Bore



Tapered Bore (K)  
(1:12)



Tapered Bore (K30)  
(1:30)

# Product Range

## Thrust bearing



Roller Thrust



Ball Thrust

## Pillow Block



UCP



UCF



UCT

## Special Product

### Bearing Solutions



Belt Tensioner



More Life Series  
Bearings



Low Torque  
bearings

### Next Gen Bearings



Pre-set Hub  
Assembly



Gen-3 Wheel  
Bearing



# Product Range for Railway

Railway Bearings with Integrated Solution

## CTRB for Wagons

6x11 Class 'E' Cartridge TRB

6-1/2x9 Class 'K' Cartridge TRB



## Spherical Roller Bearing - Passenger Coaches (MG, BG and EMU)

22320C3C3,  
22326CC3 &  
22328BL1C3

(Direct Mounted Type)



## Axle Box for Locomotive



## NBC Traction Motor Bearings for Locomotives

### Pinion End Bearings

- TS2- NU330 CL1BXC5188PX4
- TS2- NU326 CL1BXC5186PX1



### Commutator End Bearings

TS2- NH324 L1BCS175MP6  
TS2- NH320 CL1BX2CS123PX1  
TS2- NUP318 CL1BXC4PX1  
TS2- NH318C L1BXC4PX1

## High Speed Passenger & Freight Locomotives

X-105, X-141 (WDM2C, WAG5B, WAM4),  
X-197, X-198 (With CRU) (WDM3A,  
WDG3A, WDM3D), X-122 (WAP1,  
WAP4), X-119,

92-4271C (WDM2A, 2B), X-171, X-182  
(WAG7, WDG2), X-174 (WDP1), X-149,  
X-180 (WDP2, WAP3) etc.

### Shunting Locomotives

92-4204A (Floating Type)

92-4277A (Non-Floating Type)

### Meter Gauge Locomotives

92-4253 (YDM-4)



# Large Diameter Bearing (LDB)

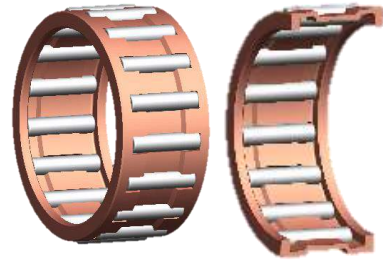
## Bearing for Heavy Industrial Application



- Heavy Engineering
- Power plants
- Mining /quarry
- Steel
- Cement
- Coal
- Excavation equipment
- Construction
- Earth moving equipment



# Needle Roller Bearings (New Product)



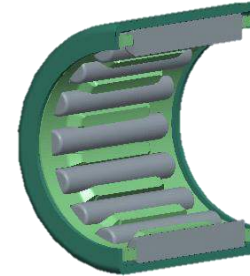
## Needle Roller & Cage Assembly For Connecting Rod Bearings

- Special coating on cages for lubrication requirements
- Precision accuracy
- Special heat treatment on rollers for contaminated environment
- Special polishing process on cages for smooth needle rotation



## Needle Roller And Cage Assembly

- Special surface treatment for wear and corrosion resistance
- Special heat treatment on rollers for contaminated environment
- Special polishing process on cages for smooth needle rotation



## Machined Ring & Shell Type Needle Roller Bearings

- Special steel and heat treatment for high load carrying capacity
- Special profile of Rollers
- Special Heat Treatment of Rollers



## Needle Roller And Polyamide Cage Assembly

- Special design features :
- Light weight ,
- High speed,
- Low friction



# Quality Certification

## Quality Management System



ISO 9001 (1995)

QS 9000 (2000)

ISO/TS 16949 (2003)

IATF 16949 (2018)

TPM Excellence Award  
2008



2008

Occupational Health & Safety  
2014, 2020



OHSAS 18001 (2014)

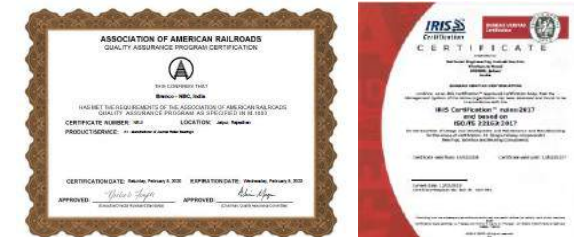
ISO 45001 (2020)



Environmental System  
2000



Railway Certification  
2005, 2015



AAR M-1003 (2005)

ISO/TS 22163 (IRIS) – (2015)

## Awards



The company won the ACMA (Automotive Component Manufacturers Association) awards in 2012 for excellence in technology and manufacturing, among other significant recognitions.



Confederation of Indian Industry - Eastern Region (CII-ER) Award for Industrial Innovations(top 25)



# Global Quality Awards

## Deming Award 2010



## Deming Grand Prize 2015



The Deming Prize is one of the highest awards on TQM (Total Quality Management) in the world that recognizes both individuals for their contributions to the field of Total Quality Management (TQM) and businesses that have successfully implemented TQM.

CUSTOMERS BANK ON US



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## APPLICATIONS



### Automotives

2/3 wheelers,  
Cars, Trucks Tractors  
and Trailers



### Industrial

Electrical motors,  
Heavy Industrial  
Plants, Bulldozers,  
Power plants  
and cement Plants



### Railways

Wagons, Coaches  
and locomotives





# AUTOMOTIVE OEMs





# Supplier of choice for premium Indian automotive OEMs





# RAILWAYS





## Railways Customers



# Indian Railways

Lifeline to the nation...

45% Share of Indian Railways axle bearings

Since 1982, supplying Cartridge Tapered Bearing for Rail Road Applications

Awarded with "IRIS" (International Railway Industry Standard) certification

Association Of American Railroads Quality Assurance Certification

# INDUSTRIAL SECTOR





# Major Industrial Customers

## Cement Sector



## Steel Sector



## Construction and Mining



# POWER SECTOR



# Power Industry





# INDUSTRIAL UTILITIES





# Motors/ Pumps/ Compressors





TEXTILE INDUSTRY







Value through values  
Sangam (India) Ltd.



Why Choose us?





| Phase      | Offering   | Description  |
|------------|--|--|
| Pre-sales  | Dedicated KAM                                      | For managing demand generation, on-field interactions, coordination with dealer and MRO's PoC                      |
|            | Consistent availability                            | Consistent availability of runner and repeater SKUs, lead time of xx days post receiving requirements from the MRO |
|            | Supply & inventory mgmt.                           | Dedicated supply channel with dedicated dealer, inventory managed at plant site/dealer                             |
|            | Customised application study for critical bearings | Application study for high impact critical bearings and supply post technical diligence                            |
| Post-sales | CBM set-up   | Setting up of Condition Based Monitoring (CBM) system  |
|            | Technical workshops                                | Workshops on best practices for handling & fitment of bearings, with customized modules                            |
|            | OTIF supplies                                      | Assured on-time delivery in full   |
|            | Customer response mgmt.                            | Failure analysis and problem resolution via dedicated KAM and application engineer's support                       |
|            | Portfolio mgmt.                                    | Timely reviews of range offered to the industry and updation of portfolio  |

## Reasons why customers choose us



India's largest bearing manufacturing company with a wide product range



Flexible and agile solutions to optimally cater to customer needs



Trusted by customers in over 30+ countries



Large product portfolio ranging from 06 mm bore to 2000 mm outer diameter



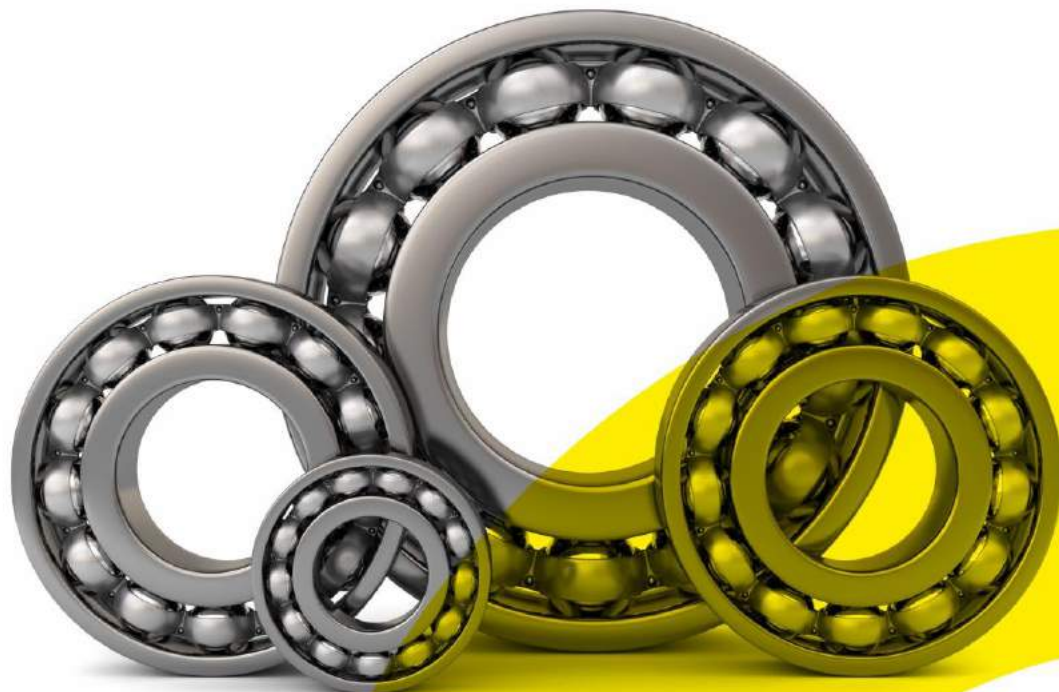
High-quality competitive products and true value for money



Preferred bearing brand of Indian and Global Automotive OEMs and Railways



Only bearing manufacturer in the world to get Deming Grand Prize



# Thank You

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