

A Friction Free Revolution



The Commitment to Quality...  
The Commitment to Growth.



Since 1996

A PRODUCT OF  
PRECISION BEARINGS PVT. LTD.



### ***Precision Bearings Pvt. Ltd.***

Precision Bearings Pvt. Ltd. an IATF 16949:2016 Certified & ISO 45001:2018 & ISO 14001 :2015 Manufacturer and Exporter of a wide range of Bearings since 1996 serving a worldwide market and also catering to the precision industries. Over 200 employees working on 24 automated lines spread across 11500 sq. mt. endure to meet customer demands and specifications, while our network of distributors on every continent help us serve our customers across 45 countries.

### ***Product Offered***

Our technical and manufacturing expertise have obtained regular export orders in all kinds of ball & roller bearings as per samples & drawings. Our engineers can offer technical qualified support from design stage to packaging of end product to answering of technical questions and developing special bearing solution with our customers on site, worldwide.

### ***Raw Material & Heat Treatment***

The standard bearings components like Outer Rings, Inner Rings, Balls and Rollers material from SAE 52100 (100 Cr6) are bearing steel which provide uniform high hardness, toughness and abrasion resistance. The standard cage material is low carbon cold rolled CRCA steel. (Can also manufacture machined cage from brass or bronze & polyamide.) We can also supply bearing with case harden steels with crowned rings & rollers.

### ***Precisión Bearings Pvt. Ltd.***

Es un ISO IATF 16949:2016 Certified & ISO 45001:2018 & ISO 14001 :2015 fabricante y exportador de cojiente de calidad alto que soporta la industria de cojiente y PT mundial desde que 1996. Con 24 líneas automatizadas de maquinaria con una planta de de alta tecnología de 11,500 Metro Cuadrado con 200 empleados en India. Que una red global de distribuidores en cada continente, nosotros encontremos los requisitos de nuestra base global de cliente en más de 45 países.

### ***El producto Ofreció***

Nuestra pericia técnica e industrial ha engranado la orden regular de la exportación en todas clases de cojinetes de bolas y de rodillo de acuerdo con muestras y los dibujos. Nuestros ingenieros pueden ofrecer apoyo calificados técnico de la etapa del diseño al envase de producto final a contestar de preguntas técnicas y desarrollando la solución especial de cojinete con nuestros clientes en el sitio, por todo el mundo.

### ***Raw La Materia Prima y Tratamiento Térmico***

Los componentes estandar de cojinetes quierenlos Anillos Exteriores, los Anillos Interiores, la materia de Pelotas y Rodillos de SAE 52100 (100 Cr6) soportan acero que proporciona la dureza alta uniforme, la resistencia de la dureza y la abrasión. La materia estandar de la jaula es el acero arrollado frío de CRCA con carbón bajo. (Puede fabricar también mecanizó jaulas del latón o el bronce y polyamido). Podemos suministrar también cojinetes con el caso de aceros endurecen con rodillos coronados.



### **Quality & Testing**

For Quality management system ZNL has been IATF 16949 : 2016 and ISO 9001 : 2015 Certification.

Our bearings are according to ISO standards & tolerances are of normal class P0 (ABEC1) & P6 (ABEC 3). We maintain normal clearance. (But upon specific requirement we can produce C2, C3, C4 or C5 clearance bearings)

### **Quality Equipment & Testing Facilities**

We have all the quality equipment and details are described in the brochure.

### **Material Testing**

Chemical analysis of raw material is done before forging of each batch. Micro structure and HRC is checked after heat treatment. Final inspection of ID, OD, WIDTH and RADIAL CLEARANCE before packing is done. We perform rig test (life test) in special bearings.

### **R & D**

We design & develop quality as per customers requirements and support on technical side and suggest precise bearings in all application areas and provide knowledge of proper mounting & dismounting procedures.

Over the last 4 consecutive years we have exceeded our export goals and have been accorded the status of STAR EXPORT HOUSE by ministry of Commerce & Industry (Government of India.)

### **La Calidad y el Ensayo**

Para el sistema de la administración de la calidad ZNL ha sido certificado con IATF 16949 : 2016 y ahora mueve hacia ISO 9001 : 2015 certificación.

Nuestros cojinetes están según estándares de ISO y las tolerancias son de la clase P0(ABEC1) normal y P6(ABEC 3). Mantenemos el espacio libre normal. (Pero sobre el requisito específico que podemos producir C2, C3, C4 o cojinetes de espacio libre C5)

### **El Equipo de la calidad alta y las Facilidades du Ensayo**

Nosotros tenemos todo el equipo de la calidad alta y los detalles son descritos en el folleto.

### **Ensayo de materia**

El análisis Químico de materia prima es hecho antes de falsificar de cada serie. La estructura micro y HRC son verificados después de tratamiento térmico. La inspección final del DIÁMETRO INTERIOR, DIÁMETRO EXTERIOR, LANCHURA y ESPACIO LIBRE RADIAL antes empacar es hecho. Realizamos la prueba de aparejo (la prueba de la vida) en cojinetes especiales.

### **Investigación y el Desarrollo**

Diseñamos, desarrollamos cojinetes de calidad alta de acuerdo con requisitos de clientes y sostenemos en el lado técnico y sugerimos cojinetes precisos en todas áreas de la aplicación y proporcionamos el conocimiento del los procedimientos apropiados para montar y desmontar.

Sobre los últimos 4 años consecutivos nosotros hemos excedido nuestras metas de la exportación y hemos sido concedido la posición de la CASA de LA EXPORTACION por el Ministerio del Comercio y la Industria (el Gobierno de India).

*We invite you to visit our factory to understand us better and for long-term business relationship. Please feel free to ask for bearing samples & catalogues.*



Since 1996



## CYLINDRICAL ROLLER BEARINGS

- It can accommodate heavy radial loads & high speeds.
- E type can transmit extra heavy loads because this type accommodates more numbers & bigger sizes of rollers.
- It can take radial & axial loads in both directions.
- Full complement cylindrical roller bearings are suitable particularly for heavily stressed bearings locations & moderate speeds.
- They are also available with crowned rings & rollers.

**Also Available in  
Four Row Cylindrical Roller Bearings**

**Range : Steel, Brass and Polyamide Cage**

- 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
- SL04 5005 PP to SL04 5096 PP
- SL 182918 to SL 182996
- SL 183006 to SL 183092
- SL 182207 to SL 182244
- SL 181840 to SL 181896
- SL 192308 to SL 192352
- SL 184912 to SL 184996
- SL 184830 to SL 184896
- SL 185068 to SL 185096
- SL 014910 to SL 014996
- SL 014830 to SL 014896
- SL 024910 to SL 024996
- SL 024830 to SL 024896
- SL 05016E to SL 05048
- SL 119XX
- SL 149XX
- LSL 1923XX
- RSL 18XXXX



## SPHERICAL ROLLER BEARINGS

- It can take care misalignment of bearings shaft & housing.
- It can transmit heavy loads and also transmit radial as well as axial load in both directions. It can take misalignment from 1.50 to 2.50
- This gives them an attractive combination of design features making them irreplaceable in many demanding application.
- E & E2RS transmit extra heavy loads because of more number & bigger sizes of rollers.

### Range : Plain & Taper Bore (Steel & Brass Cage)

|                 |    |               |
|-----------------|----|---------------|
| • 21304 CCW33   | to | 21322 MBW33   |
| • 22205 CCW33   | to | 22260 CCW33   |
| • 22205 EW33    | to | 22222 EW33    |
| • 22206 E2RSW33 | to | 22220 E2RSW33 |
| (BS2-2206-2CS   | to | BS2-2220-2CS) |
| • 22208 MBW33   | to | 22272 MBW33   |
| • 22308 CCW33   | to | 22340 CCW33   |
| • 22307 MBW33   | to | 22380 MBW33   |
| • 22308 EW33    | to | 22322 EW33    |
| • 23024 CCW33   | to | 230/500 MBW33 |
| • 23120 CCW33   | to | 231/500 MBW33 |
| • 23218 CCW33   | to | 232/500 MBW33 |
| • 23852 MBW33   | to | 238/500 MBW33 |
| • 23936 MW33    | to | 239/500 MBW33 |
| • 24024 MW33    | to | 240/500 MBW33 |
| • 24124 MW33    | to | 241/500 MBW33 |
| 476208B-107     | to | 476226 B-415  |

(Spherical Roller Bearing Complete Units)

## SPHERICAL ROLLER THRUST BEARINGS

- They can accommodate heavy axial loads; they are suitable for relatively high speed.
- They have asymmetrical barrel rollers which compensate for misalignment.

### Range

- 29248M to 29280 M
- 29318M to 29380M
- 29412M to 29480M
- 29318E to 29360E
- 29412E to 29460E



## TAPER ROLLER BEARINGS

- Taper Roller Bearings have Tapered Raceways & between them Taper Rollers are arranged - resulting in meeting at single point on central axis.
- In taper rings, degrees of raceways & rollers vary as per requirement, and hence it can change the ratio of axial and radial load
- These bearings are also available in double & four rows.
- Bearings are available with semi-crowned inter changeable rings and semi-crowned rollers.

### Range : mm

- 30202 A 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 Pairs.

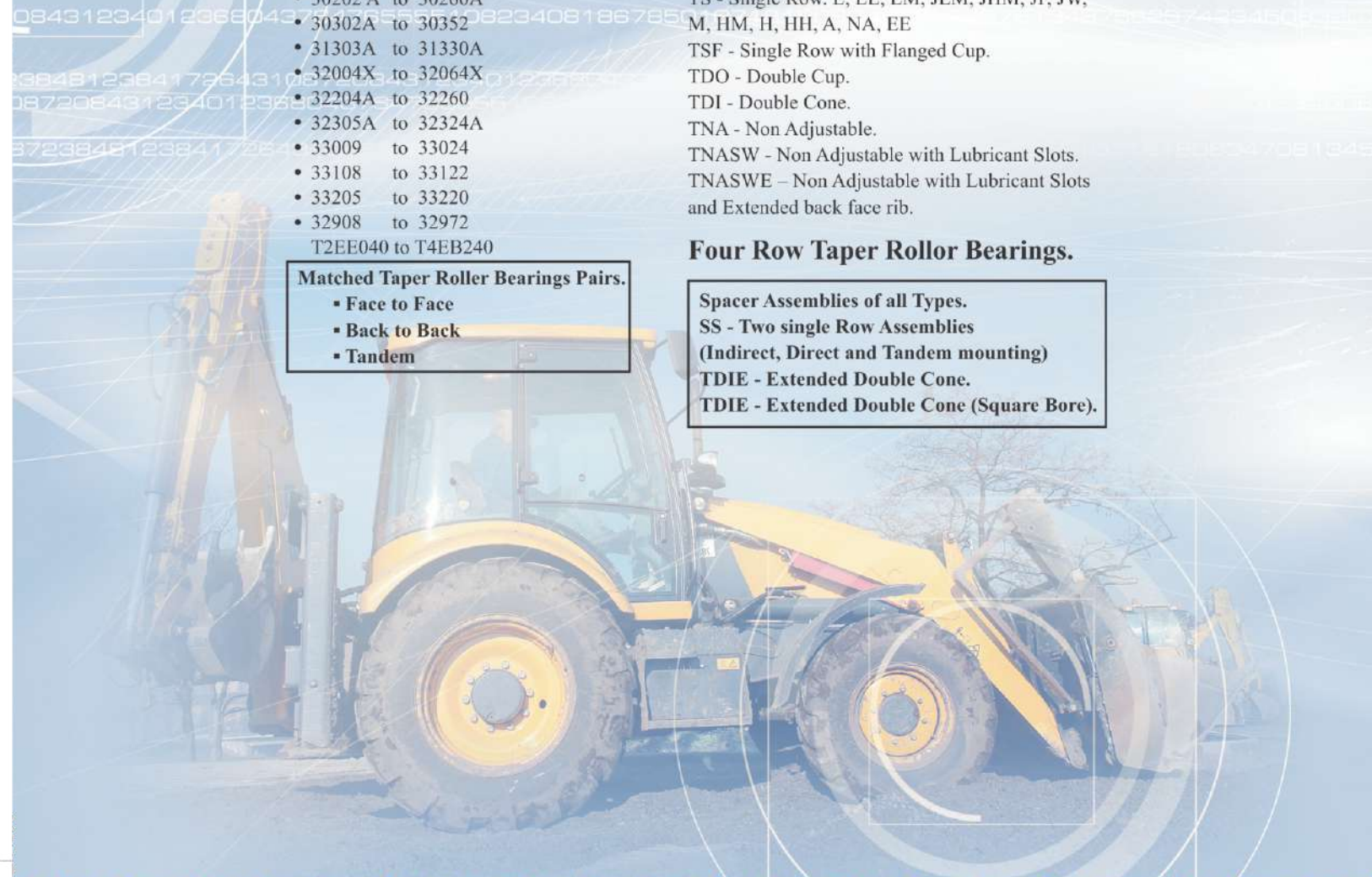
- Face to Face
- Back to Back
- Tandem

### Inch Taper Roller Bearings

- TS - Single Row. L, LL, LM, JLM, JHM, JP, JW, M, HM, H, HH, A, NA, EE
- TSF - Single Row with Flanged Cup.
- TDO - Double Cup.
- TDI - Double Cone.
- TNA - Non Adjustable.
- TNASW - Non Adjustable with Lubricant Slots.
- TNASWE - Non Adjustable with Lubricant Slots and Extended back face rib.

### Four Row Taper Rollor Bearings.

- Spacer Assemblies of all Types.
- SS - Two single Row Assemblies (Indirect, Direct and Tandem mounting)
- TDIE - Extended Double Cone.
- TDIE - Extended Double Cone (Square Bore).





## AUTOMOBILE BEARINGS

- Clutch Release Bearings, Needle Roller Bearings, King Pin Bearings, DAC-Wheel Bearings and Gear Box Bearings are the main parts of automobile sector.

### DAC-Wheel Bearings Range

- DAC 25520037 to DAC 5090034

### Clutch Bearings Range

- T. 63 to T. 811
- T. 1260 to T. 7519
- CB 3557 - 13 to CB 31870 - 355

## NEEDLE ROLLER BEARINGS

### Drawn Cup Needle Roller Bearing

- Caged Type - HK SCE SCH, BK BCE BCH, HK..RS, HK..2RS, BK..RS

### Needle Roller Bearings

- With Ribs-NK, NKS, RNA49, RNA48, NKI, NKIS, NA49, NA48, RNA69, NA69, RNA49..RS, RNA49..2RS, NA49..RS, NA49..2RS
- Without Ribs-RNA0, NA0
- Full Complement -RNAV, NAV
- Inner Ring-IR, LR
- Aligning-RPNA, PNA

### Axial Bearing

- Axial Needle Roller And Cage Assembly-AXK, AXW
- Axial Cylindrical Roller And Cage Assembly-K811, K812, K893, K874, K894

### Radial Needle And Cage Assmblies

K/KS, KK/KKS, KZK, KBK, KNL

### Yoke Type Track Roller

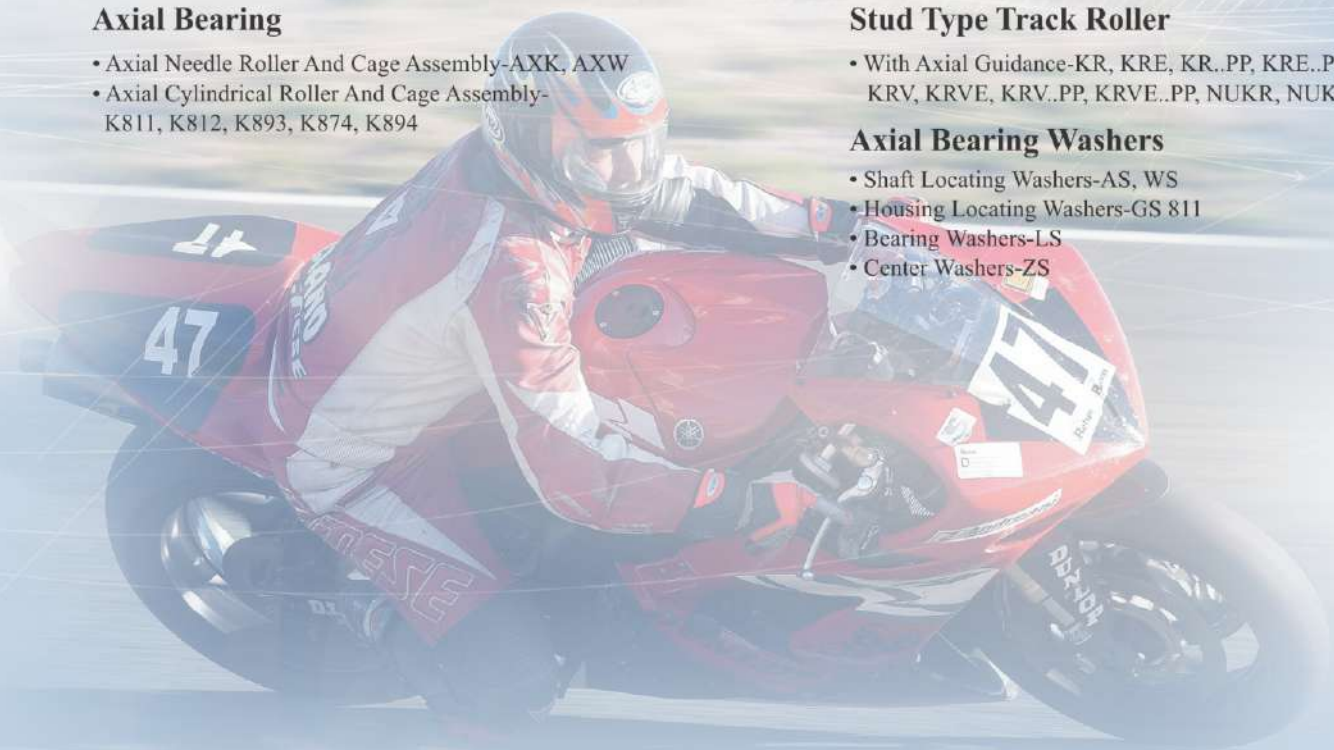
- Without Axil Guidance-RSTO, RSTO..X, STO, STO..X, RNA22..2RS, RNA22..2RSX, NA22..2RS, NA22..2RSX
- With Axil Guidance-NATR, NATV, NUTR, NUTR..X

### Stud Type Track Roller

- With Axial Guidance-KR, KRE, KR..PP, KRE..PP, KRV, KRVE, KRV..PP, KRVE..PP, NUKR, NUKRE

### Axial Bearing Washers

- Shaft Locating Washers-AS, WS
- Housing Locating Washers-GS 811
- Bearing Washers-LS
- Center Washers-ZS





## THRUST BALL BEARINGS

- This will provide solution to various application of bearings, in axial locating arrangement.

### Range

- 51100 to 51160
- 51200 to 51260
- 51305 to 51340
- 51405 to 51430
- FT, LT, MT, HT & XLT Series
- Available in Brass Cage also.
- 52202 to 52240
- 53205 U to 53240 U
- 53405 U to 53430 U

## PILLOW BLOCK BEARINGS

- This unit can accommodate initial error of misalignment. These bearings are useful for agriculture machinery, textile machinery, conveyors, ventilation etc.

### Range (Inch & mm)

- UC - UCP - UCF - UCT - UCFC - UCFL
- 204 to 220
- UC - UCP - UCF - UCT
- 304 to 328

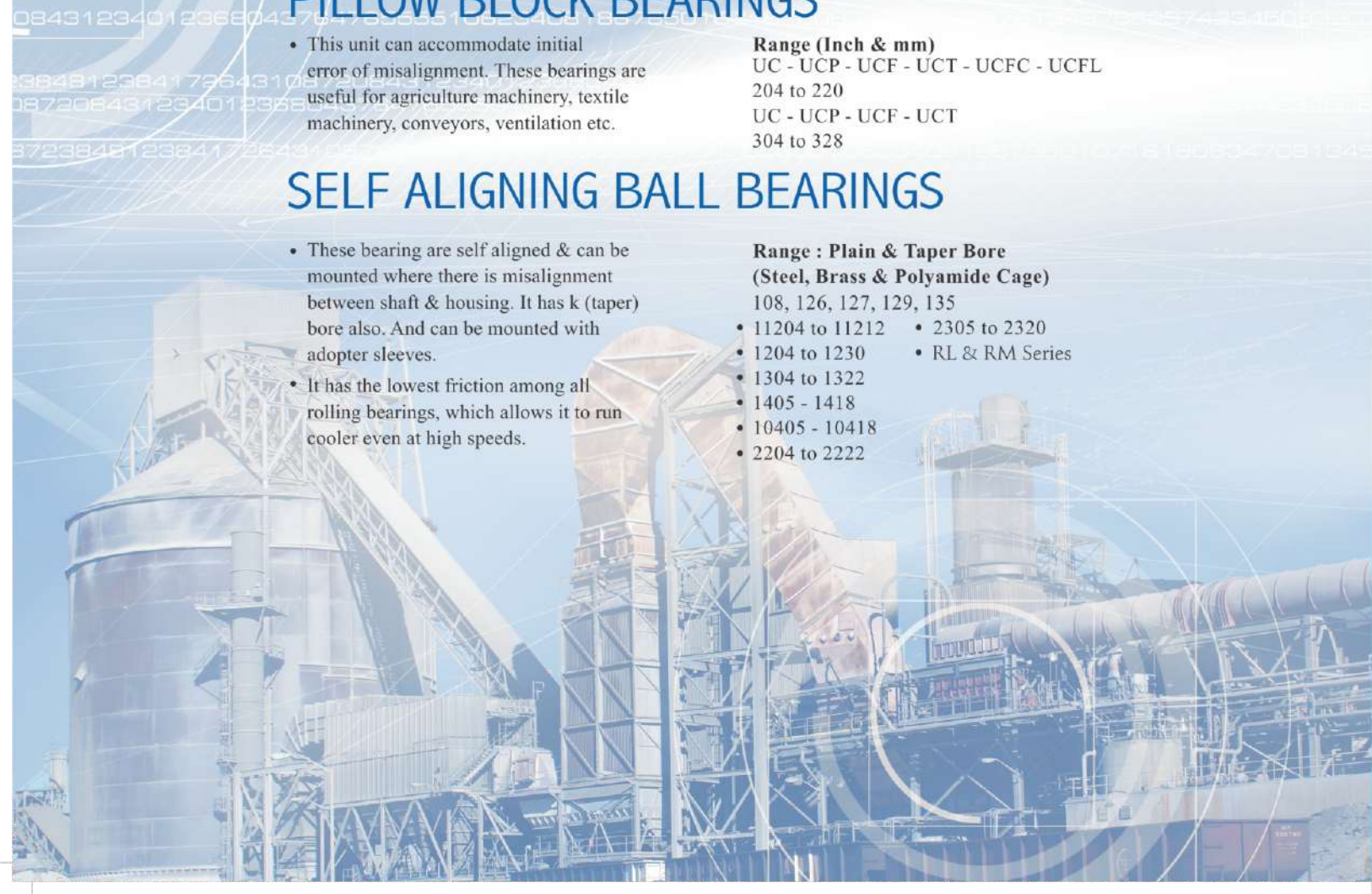
## SELF ALIGNING BALL BEARINGS

- These bearing are self aligned & can be mounted where there is misalignment between shaft & housing. It has k (taper) bore also. And can be mounted with adopter sleeves.
- It has the lowest friction among all rolling bearings, which allows it to run cooler even at high speeds.

### Range : Plain & Taper Bore

(Steel, Brass & Polyamide Cage)

- 108, 126, 127, 129, 135
- 11204 to 11212
- 1204 to 1230
- 1304 to 1322
- 1405 - 1418
- 10405 - 10418
- 2204 to 2222
- 2305 to 2320
- RL & RM Series





## DEEP GROOVE BALL BEARINGS

- Capable of operating at high speeds & requires less service maintenance.
- This enables these bearing to carry axial loads in both directions in addition to radial loads even at high speed.

**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
- Miniature Ball Bearings

## BALL BEARINGS (ELECTRIC MOTOR APPLICATION)

### FOUR POINT CONTACT BALL BEARINGS

- They need less axial space than double row angular contact bearings. The contact angle is 35 degree & two parts I/R are easy to assemble & provide a high load carrying capacity.

**Range**

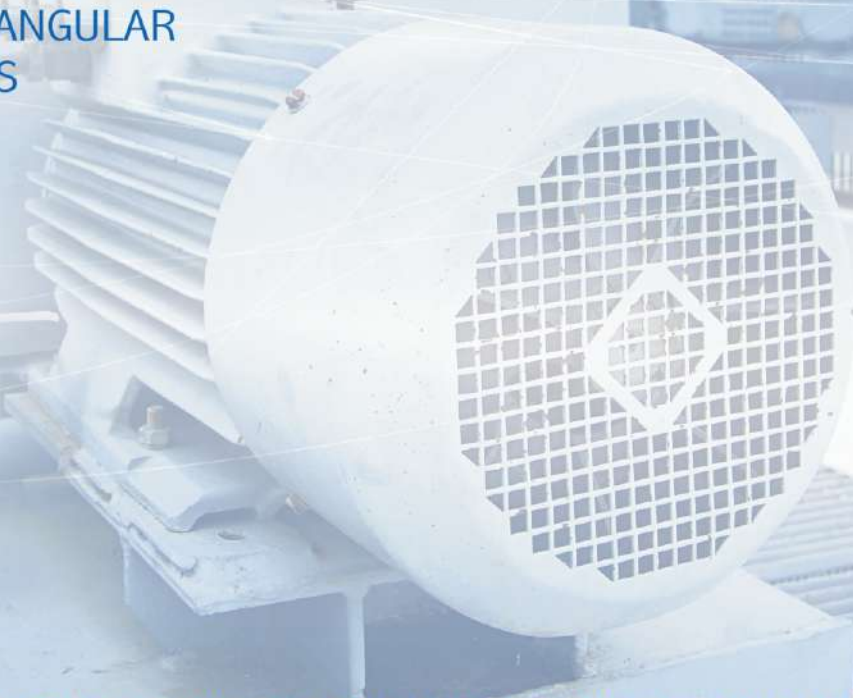
- QJ205M to QJ220M
- QJ304M to QJ320M
- DLJT, DMJT, (Inch & mm)
- QL, QM, LDJT & MDJT Series.
- Also available in brass & polyamide cage. Four point Contact Single with IR (No Split Rings)

### SINGLE & DOUBLE ROW ANGULAR CONTACT BALL BEARINGS

- Single Row Angular Contact Ball Bearings can accommodate axial loads acting in one directions.
- Double Row Angular Contact Ball Bearings can accommodate radial loads as well as axial loads acting in both directions.
- Single Row Angular Contact Ball Bearings can have 15, 25, 40 degree contact angle with preloading. (low, medium & heavy)

**Range**

- 7200B to 7248B
- 7302B to 7338B
- 7404B to 7420B
- 3200 to 3222
- 3302 to 3322
- ALS, AMS. Also Available in ZZ & 2RS.





Since 1996



## MANUFACTURING MACHINERIES

|                                                 |       |
|-------------------------------------------------|-------|
| FULLY AUTOMATIC MACHINE (BALL BEARING)          | RABIT |
| LOW NOISE WITH HIGH RPM                         | RABIT |
| FULLY AUTOMATIC MACHINE (TAPER ROLLER BEARING)  |       |
| FULLY AUTOMATIC ASSEMBLY (BALL BEARING)         | R & S |
| FULLY AUTOMATIC ASSEMBLY (TAPER POLLER BEARING) | R & S |

### FACE GRINDING MACHINE

NIPPEI - DUPLEX  
ALEX

### MADE IN

JAPAN  
INDIA

### CENTRELESS GRINDER FOR OD

MIKROSA WMW  
CINCINATTI  
MICRON

GERMANY  
NETHERLAND  
JAPAN

### GRINDING MACHINE FOR OR RACEWAY

VOUMARD  
TOYO  
WUXI  
IZUMI  
RABBIT

SWITZERLAND  
JAPAN  
CHINA  
JAPAN  
CHINA

### GRINDING MACHINE FOR IR RACEWAY

WMW  
GENDRON  
TOYODA  
IZUMI  
WUXI  
RABBIT

GERMANY  
FRANCE  
JAPAN  
JAPAN  
CHINA  
CHINA

### GRINDING MACHINE IR BORE

BWF  
VOUMARD  
IZUMI  
TOYO  
WUXI  
RABBIT

GERMANY  
SWITZERLAND  
JAPAN  
JAPAN  
CHINA  
CHINA

### RACEWAY SUPERFINISHING MACHINE

SEIBU-AEROLIDE

JAPAN

### BEARING WASHING & OILING MACHINE

JAPAN

### LASER MARKING MACHINE

CHINA

## QUALITY TESTING EQUIPMENTS & INSPECTION FACILITIES

### METALLURGICAL LAB

### CHECKING CHEMICALS & MICRO STRUCTURE

### EQUIPMENTS

LIFE TESTING RIG (MACHINE)

### MAKE

CHINA

NOISE TESTER

1. ANDERONMETER

JAPAN

2. D B METER

JAPAN

ELECTRONIC ROLLER GROUPING  
MACHINE

INDIA

SURFACE CRACK DETECTOR

INDIA

FORM TELESURF 50

TAYLOR HOBSON

(CROWNING, SURFACE, ROUGHNESS, (UK)

RADIUS, FORM ERRORS,  
PROFILE CHECKING ETC.)

ROUGHNESS TESTER

MAHR

ROUNDNESS TESTER

TAYLOR HOBSON

PROFILE PROJECTOR

INDIA

DIAL CALIBRATOR

INDIA

SLIP GAUGES GRADE ZERO

MIKRONIX

LINEAR HEIGHT GAUGES

MITUTOYO

HARDNESS TESTER

INDIA

(ROCKWEL & VICKERS)

BEARING RUNOUT CHECKER

JAPAN

RADIAL CLEARANCE GAUGES

JAPAN

RADIAL RUNOUT

CHECKING GAUGE

JAPAN



# WORLD WIDE DISTRIBUTORS NETWORK

- ARGENTINA
- AUSTRALIA
- AUSTRIA
- BRAZIL
- BELARUS
- BELGIUM
- CANADA
- CHILE
- CZECH REPUBLIC
- DENMARK
- EGYPT
- FINLAND
- FRANCE
- GERMANY
- ISRAEL
- INDONESIA
- IRAN
- IRELAND
- ITALY
- JAPAN
- KOREA
- GREECE
- MALAYSIA
- MEXICO
- NETHERLANDS
- PHILIPPINES
- POLAND
- RUSSIA
- SINGAPORE
- SLOVAKIA
- SLOVENIA
- SOUTH AFRICA
- SPAIN
- SWITZERLAND
- TAIWAN
- TURKEY
- UAE
- UKRAINE
- USA
- UK
- VENEZUELA

# SALES NETWORK IN INDIA

- NORTH (LUDHIANA)**
  - DELHI
  - PUNJAB
  - UP
  - HARYANA
  - UTTARANCHAL
- WEST (PUNE AND MUMBAI)**
  - MAHARASHTRA
- NORTH WEST (AHMADABAD)**
  - GUJARAT
  - MP
  - RAJASTHAN.
- SOUTH (CHENNAI)**
  - TAMIL NADU
  - KARNATAKA
  - ANDHRA PRADESH
  - KERALA
- EAST (KOLKATA)**
  - WEST BENGAL
  - JHARKHAND
  - ORISSA
  - CHHATTISGARH
  - BIHAR



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