



I N G E N U I T Y



Ingenuity in

P E R F O R M A N C E



Revolvo is setting the standard

Revolvo part of the Specialist Technology Division of **ERIKS**, supply bearings and precision related components to niche markets across a wide range of industries worldwide.

Revolvo cellular manufacturing facility provides flexibility for the production of both standard catalogue, specialised and entirely custom designed bearings. These bearings can be manufactured in both inch and metric sizes ranging from 15mm bore to 1500mm outside diameter.

- **Cylindrical Roller Bearings** can be single or multiple row both with caged and full compliment design. Suitable for heavy radial loads operating at high speeds
- **Deep Groove Ball Bearings** are versatile and suitable for high speeds and are robust in operation. They are nonseparable and require little maintenance
- **Angular Contact Bearings** can be single or pre-loaded in matched pairs
- **Thrust Bearings** consist of a shaft & housing washer and a ball & cage which can be single or double direction. Cylindrical roller thrust bearings can be supplied for heavy axial loads
- **Four Point Contact Bearings** single row angular contact ball bearings designed to accommodate radial & axial loads acting in both directions
- **Taper Roller Bearings** suitable for carrying combined heavy radial and axial loads



Combination Linear & Rotary Motion Bearing



Thrust Ball Bearing Single Direction



Deep Groove Ball Bearing Single Row
(Cryogenic Bearing Illustrated)

Ingenuity in

A P P L I C A T I O N



Revolvo has developed a detailed understanding of the bearing requirements of a diverse range of industries and applications, including; **Railways, Marine, Machine Tools & Production, Machinery, Oil & Petrochemicals, Power Generation, Iron & Steel, Mining & Quarrying and Cement.** To meet specific industry requirements, Revolve manufactures from SAE 52100 bearing grade material and in a wide variety of materials, including;

Materials

Rings & Rolling Elements

- **Carbon Chrome SAE 52100** vacuum degassed chrome offers high hardness and excellent wear properties in the manufacture of precision bearings
- **Tool Steel SAE M50** used when high hardness is needed at elevated temperatures
- **Stainless Steel SAE 440C** a high carbon martensitic stainless with excellent toughness and hardness properties and good corrosion resistance.
- **Case Hardening Steels** provides a ductile core resulting in increased performance in tensile and shock load conditions

Cage Materials

- **Brass** has good frictional properties and performs well in aggressive environments. Allows operation at higher temperatures and at higher operating speeds. Unaffected by most bearing lubricants
- **Fibre** lightweight material for high speed applications
- **Steel** for bearing arrangements which have to operate at high temperatures continuously or under arduous conditions. Steel cages are sometimes surface treated to improve wear resistance
- **Aluminium** light weight, good heat conductivity and has high corrosive resistancy
- **PEEK** flexible and tough this is used for more demanding applications, where high operating temperature, high chemical and wear resistance is required
- **Silicon Bronze** which offers a remarkable blend of properties, such as strength, corrosion resistance and high wear resistance



Single Row Cylindrical Roller Bearing



Controlled Indexing Ball Bearing



Four Point Contact Ball Bearing

Ingenuity in SERVICE



Producing products that push the boundaries of performance is only the beginning. Revolve recognise that users and specifiers of specialised and custom designed bearings demand logistical, technical and after sales support. Continuous improvement in these services has enabled Revolve to win customers. Immediate response and reaction to industry's requirements, enables Revolve to assist customers from concept, through consultation, commissioning, training, supply and on site support.

- Cellular Manufacturing
provides flexibility for the production of both standard and specialised units.
- Dedicated CNC Plant
improves process and quality control
- Application Support Engineers
are available to discuss application detail and for site visits
- Reverse Engineering
for obsolete and difficult to source bearings
- Refurbishment
extending the life of existing bearings
- Reduced Lead Times
competitive and realistic lead times offered

- Customer Approvals
from Steel, Mining & Quarrying, Railways, Petrochemical, Paper & Pulp and Marine Industries
- Bespoke Designs
supported by experienced bearing engineers and CAD systems
- Local Support
through authorised distributor network worldwide
- Quality Management System
BS EN ISO9001:2000 accredited



FM73545

- GM/RT 2450
approved supplier of safety critical engineering products and services for the railway industry



Self-Aligning Ball Bearing

Single Row Angular Contact Ball Bearing

Combined Radial & Thrust Roller Bearing

Ingenuity in

ELECTRICALLY INSULATED BEARINGS

Premature bearing failure is a common problem in electric motors, traction motors, electrical generators and other high-load electrical applications.

This occurs when 'stray' electrical current passes through the motor bearings to earth, resulting in damage to the surfaces of the bearing raceways and the rolling elements. This is usually evident by the appearance of pitting or fluting together with discolouration around the affected area.

To overcome this problem, Revolve can protect the bearing by integrating an efficient electrically insulating coating that

prevents the flow of 'stray' electrical current across the bearing.

Revolve can either design & manufacture electrically insulated bearings to customer specifications or by modifying an existing bearing to accommodate the insulation element.

Using a plasma spraying process, which coats the outer diameter and faces of the outer ring of the bearing with a mix of oxides creating an insulating layer that protects against 'stray' current.





Specialist & Customised

PRODUCTS



Revolvo offer a complete design and manufacturing service for special & bespoke products and applications.

Revolvo are committed to providing specialised bearing solutions in both Revolvo solid rolling element bearings and Revolvo SRB split roller bearings.



Our approach of working closely with customers allows us to continuously refine and improve our products, production processes and service procedures.

Authorised Distributors Stamp



FM73545



Making the world go round



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