



# CORPORATE PROFILE

*Quality & Value*

# ABOUT US



For over a decade Rolman World has been developing a range of products tailored for your purpose and your budget. Based on the BW bearings® credo of Quality & Value, we guarantee you the reassurance of the highest global standards, but at a price which suits your pocket. Designed and manufactured to DIN and JIS international standards, our BW products have been overcoming the most challenging conditions in our customers' applications in automotive and industrial for more than a decade. Our products are engineered to perform flawlessly in the world's harshest environments, delivering reliability and performance

across the Middle East, Africa, Russia, Asia and European markets. Every year we are developing new products based on customers' and markets' requirements. Our BW product range is now in excess of 4,000 products, and growing fast.

# MARKET PRESENCE

Initially supplied to our customers in the Middle East and Africa, BW bearings earned a solid market presence for robustness in harsh climates, and they are now supplied all over the world due to their reputation for quality, reliability and performance. With Rolman Worlds growing number of subsidiaries and partnerships, our network of thousands of outlets across the Middle East, Africa, Russia, and Europe means that there is always a member of the Rolman World Group - and BW bearings - close by. With our extensive industry knowledge, geographical placement we are able to deliver quickly, reliably and accurately anywhere in the world.



# QUALITY ASSURANCE



Quality is one of the cornerstones of BW bearings philosophy – Quality & Value – and this remains the key to our reputation and success throughout the world.

All our bearings are manufactured under ISO 9001 (DIN & JIS) conditions, equipped with various state of the art testing and measuring instruments and equipment, ensuring product quality will achieve global bearing standards.

BW bearings under go mechanical testing, lifespan testing, and physicochemical testing, in manufacturing labs equipped with advanced precision measuring instruments and devices, and staffed with industry professionals.

Our team of product and process specialists ensure that quality is an ingrained feature throughout the manufacturing processes – BW bearings are inspected at every stage of the manufacturing process, from material selection, to processing, to packaging.

We continuously strive to develop and improve our product offerings to ensure that we are supplying premium quality bearings and services to our customers. Through continuous technology upgrades and improvements, and our quest for perfection, we are committed to increasing our production standards and product precision at every possible stage.





# MARKET PRESENCE



## REGIONAL OFFICES & PARTNERS

- |           |           |           |                |           |             |                 |           |
|-----------|-----------|-----------|----------------|-----------|-------------|-----------------|-----------|
| 1 UAE     | 4 KSA     | 7 Lebanon | 10 Egypt       | 13 Russia | 16 Tanzania | 19 South Africa | 22 Malawi |
| 2 Qatar   | 5 Iraq    | 8 Jordan  | 11 Libya       | 14 Europe | 17 Kenya    | 20 Senegal      | 23 Ghana  |
| 3 Tunisia | 6 Morocco | 9 Algeria | 12 Ivory Coast | 15 Sudan  | 18 Nigeria  | 21 Zambia       |           |

# PRODUCTION



BW bearings are manufactured under strict processes, ensuring quality and precision. All sites are ISO 9001 certified, and work within tight guidelines and under efficient management quality systems, as a result the whole production process, from raw materials to finished products, is extremely well controlled guaranteeing reliable, efficient production, as well as consistent quality.

BW bearings invest in technical professionals, technologies, and advanced equipment, providing and creating outstanding conditions and platforms for both its research and production professionals, to raise its level of technology and to produce high quality products. BW bearings are manufactured under ISO 9001 conditions, equipped with many testing and measuring instruments and equipment that are of world-class standards, thus ensuring product quality will achieve global bearing standards.



# RAW MATERIALS

It all starts with the raw materials - this selection process is a fundamental step in the production of high-quality bearings.

In order to ensure that all BW bearings achieve industry requirements and high standards, all our bearings are manufactured with high grade bearing steel - 100 Cr6 grade steel.



How the steel is treated once selected also plays a major role in the final characteristics of the bearing. Heat treatment ensures that BW bearings exhibit outstanding stability and hardness during their lifetime, and maintain their mechanical properties. Essential to ensuring our customers operations and applications continue to work even under extreme working environments.



# HEAT TREATMENT



Heat treatment is a key process to enhance the inner qualities of the bearing.

BW bearings heat treatment is rigorously and accurately controlled to ensure that the necessary mechanical properties of the steel are achieved. By controlling heat treatment accurately a wider range of material properties can be achieved - including harder and tougher steel which can withstand the demands of specific industrial applications, giving better wear resistance, and enhancing bearing lifespan.

# MECHANICAL PROCESSING



A series of advanced numerically-controlled, grinding and assembly equipment has been introduced into the production workshop, utilizing a centralized filtration and cooling system. Together with the production equipment suppliers, the grinding, ultra-precision, fully automated integrated production lines. BW bearings mechanical processing includes: rolling - raceway grinding - super finishing - demagnetisation. During and at the end of each production phase the bearings are routinely inspected and conformity tested to ensure that they meet the strict quality control guidelines.

Once assembled BW bearings are tested for noise and precision.



# QUALITY PATH



BW bearing facilities have comprehensive bearing testing capability to ensure that the bearing and materials (steel and greases) are analysed and qualities adhered to. Our technical staff are expert engineers and qualified technicians - ensuring that each stage of the quality control process meet our quality levels and systems are carefully monitored. Bearings are routinely tested and audited to maintain and ensure quality and precision - visual checking, life testing, ball testing, roundness, hardness, roughness, weight, material testing. BW bearings relies on the quality of its employees and we are committed to training all our staff regularly to improve their professional skills. BW bearings takes great pride in ensuring its staff are at the cutting edge of technology in their respective fields.



## TECHNICAL DEPARTMENT

The technical department is equipped with cutting edge hardware and software, and supported with advanced testing equipment and devices needed to meet rigorous quality tests.

BW bearings products are manufactured based on years of technical research and development for each

## QUALITY CONTROL

Our quality control system in China uses precise assessment tools - backed up by a tight process of questionnaires, plant visits, sampling and quality reports. At every stage of the manufacturing process our bearings are tested and visually checked.



# TECHNICAL DEVICES



## CMM 3D

Ensuring BW bearing manufacturing is precise against the design - precision measurement are obtained



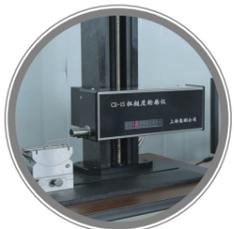
## TEST PLATFORM

Test platforms are used to ensure bearings are fit for purpose



## VIBRATION

Inspection of assembled bearings - bearings are tested to detect any radial vibration on the outer ring and noise, helping detect any imperfections in manufacturing steps



## HARDNESS

Hardness testing enables us to determine how the property of the material resists plastic deformation / penetration.

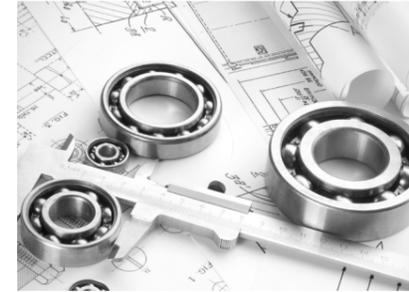


## ROUNDNESS

Roundness is another critical test element for the precision and tolerances of a bearing.

# TECHNICAL DOCUMENTATION

## BEARING TESTING REPORT



BW Bearings are inspected and evaluated after assembly - including appearance, raceways, and external surfaces



## TECHNICAL DRAWINGS

Our BW bearings engineers use the very latest software to produce 2D & 3D CAD drawings and renderings, for both standard and customised products.

Ensuring accuracy from the first step in engineering, communication, documentation, and bearing design to manufacturing.

## MAINTENANCE & SAMPLING

We ensure that equipment maintenance and repair is scheduled regularly, and a special maintenance team has been set up to conduct routine maintenance and inspection of production and testing equipment, thus reduce hidden equipment faults, increase the reliability and availability of its equipment. This also ensures the equipment is in the best operating condition at all times, all product produced is of consistent quality.



# TRAINING

Research, development, innovation, and training are key elements of the success of BW bearings. We regularly undertake training sessions with customers to develop their understanding in the importance of bearings in machinery. These sessions also enables us to understand their markets, industries and application requirements, which allow us to develop bearings to meet their needs.



# APPLICATIONS

With our wide range of bearings and a reputation for Quality & Value BW bearings are used throughout industry - from automotive, to food production, material handling to agriculture and Oil & Gas facilities. Customers know they can rely on BW bearings to prove reliable, robust bearing solutions to meet their applications requirements.



**AUTOMOTIVE**



**FOOD**



**STEEL**



**AGRICULTURE**



**MINING**



## Proven Quality, Perfect Price

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### Automotive Bearings & Components

- Wheel Bearings & Hubs
- Clutch Release Bearings
- Timing Belt Tensioners
- Universal Joints
- Fuel Filters
- In-Tank Fuel Filters

### Industrial Bearings

#### Roller Bearings

Spherical • Cylindrical • Taper • Giant Size • Needle

#### Ball Bearings

Radial Ball Bearings • Self Aligning • Angular Contact • Thrust

#### Bearings Units

Pillow Block • Plummer Block • Accessories

#### Special Bearings

Bearings for Excavators & Forklifts • Slewing Bearings • Spherical Bushings

### Roller Chain





Available sizes

|  | 200 g Pouch | 400 g Cartridge | 500 g tin | 1 kg tin | 5 kg tin | 18 kg tin | 180 kg Drum |
|--|-------------|-----------------|-----------|----------|----------|-----------|-------------|
| <b>LGMT 3</b> General Purpose                    | •           | •               | •         | •        | •        | •         | •           |
| <b>LGEP 2</b> High Load, Extreme Pressure        | -           | •               | -         | •        | •        | •         | -           |
| <b>LCAG 3</b> Special High & Low Temperature     | -           | •               | •         | •        | •        | •         | -           |
| <b>LGHP 2</b> High Performance, High Temperature | -           | -               | -         | •        | •        | •         | -           |
| <b>LGFP 2</b> Food Compatible Bearing Grease     | -           | -               | -         | •        | -        | -         | -           |
| <b>LGFR 2</b> Fire Resistant Bearing Grease      | -           | -               | -         | •        | -        | •         | -           |

The latest addition to our growing product range is BW Lubricants. We have worked with one of the world's leading lubrication manufacturers to develop a range of greases for key industrial and automotive applications.

These high grade greases will help maintain and ensure that our customers machinery and applications continue to run even under the very harshest of conditions of the Middle East & African climates. Tribology is the specialist science of friction and a critical element in the life of bearings, and any spare part or motion required in machinery.

By selecting the correct Lubricant for their applications, customers maximise their bearing life, save money, improve efficiency, reduce unplanned downtime and improve maintenance practices.

# PRODUCT RANGE

- Single Row Deep Groove Ball Bearings - Metric
- Single Row Deep Groove Ball Bearings - Wide Series
- Single Row Deep Groove Ball Bearings - Wide Inner Ring Series
- Single Row Deep Groove Ball Bearings - Imperial
- Deep Groove Ball Bearings - Full Elements
- Deep Groove Ball Bearings - with Filling Slot
- Double Row Ball Bearings & Double Row Angular Contact Ball Bearings
- Self Aligning Ball Bearings - Metric
- Single Row Angular Contact Ball Bearings - Metric
- Matched Pair Angular Contact Ball Bearings
- Double Row Angular Contact Ball Bearings
- Cylindrical Roller Bearings
- Full Complement Cylindrical Roller Bearings
- Double Row Cylindrical Roller Bearings
- Double Row Full Complement Cylindrical Roller Bearings
- Four Row Cylindrical Roller Bearings
- Single Row Taper Roller Bearings - Metric
- Single Row Taper Roller Bearings - Inch
- Double Row Taper Roller Bearings - Metric
- Flanged Double Row Taper Roller Bearings - Metric
- Double Row Taper Roller Bearings - Inch
- Four Row Taper Roller Bearings - Metric
- Four Row Taper Roller Bearings - Inch
- Spherical Roller Bearings
- Vibrating Screen Spherical Roller Bearings
- Split Spherical Roller Bearings
- Thrust Ball Bearings
- Thrust Ball Bearings w/Aligning Seat & Ring
- Double Direction Thrust Ball Bearings
- Double Direction Thrust Ball Bearings w/Aligning Seat & Washer
- Thrust Ball Bearings w/Outer Cover
- Double Direction Thrust Angular Contact Ball Bearings
- Thrust Cylindrical Roller Bearings
- Single Direction Thrust Taper Roller Bearings
- Double Direction Thrust Taper Roller Bearings
- Thrust Spherical Roller Bearings Asymmetrical
- Thrust Spherical Roller Bearings Symmetrical
- Adapter Sleeves
- Withdrawal Sleeves
- Lock Nuts
- Lock Washers
- Lock Plates
- Deep Groove Ceramic Ball Bearings
- Angular Contact Ceramic Ball Bearings
- Deep Groove Ball Insulation Bearings
- Angular Contact Ball Insulation Bearings
- Cylindrical Roller Insulation Bearings
- Self-Lubricating Spherical Plain Bearings
- Self-Lubricating Thrust Spherical Plain Bearings

# NOTES



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