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## About BW

From a modest start over **50** years ago, **Rolman World Group** has evolved into the region's premier distributor for Industrial, Automotive Spare Parts and Services. From its roots as a bearing distributor, the company has grown to become EMEA's leading replacement parts & technical services provider.

Rolman World has been serving customers across the region, supplying the demands of each application. In order to better serve customer requirements, in 1995, Rolman World started to establish its own - **BW** product range. A product built for "**Quality & Value**", to deliver performance, reliability, and affordability.

Our products are designed and manufactured to DIN and JIS international standards, engineered to perform flawlessly in the world's harshest environments, delivering reliability and performance across the Middle East, Africa, Asia, and European markets.

Every year we develop new products based on the requirements of customers and markets. Our BW product range is constantly growing and is now in an excess of more than **7,000** SKU's.



CORPORATE OFFICE



60,000 SQM WAREHOUSE



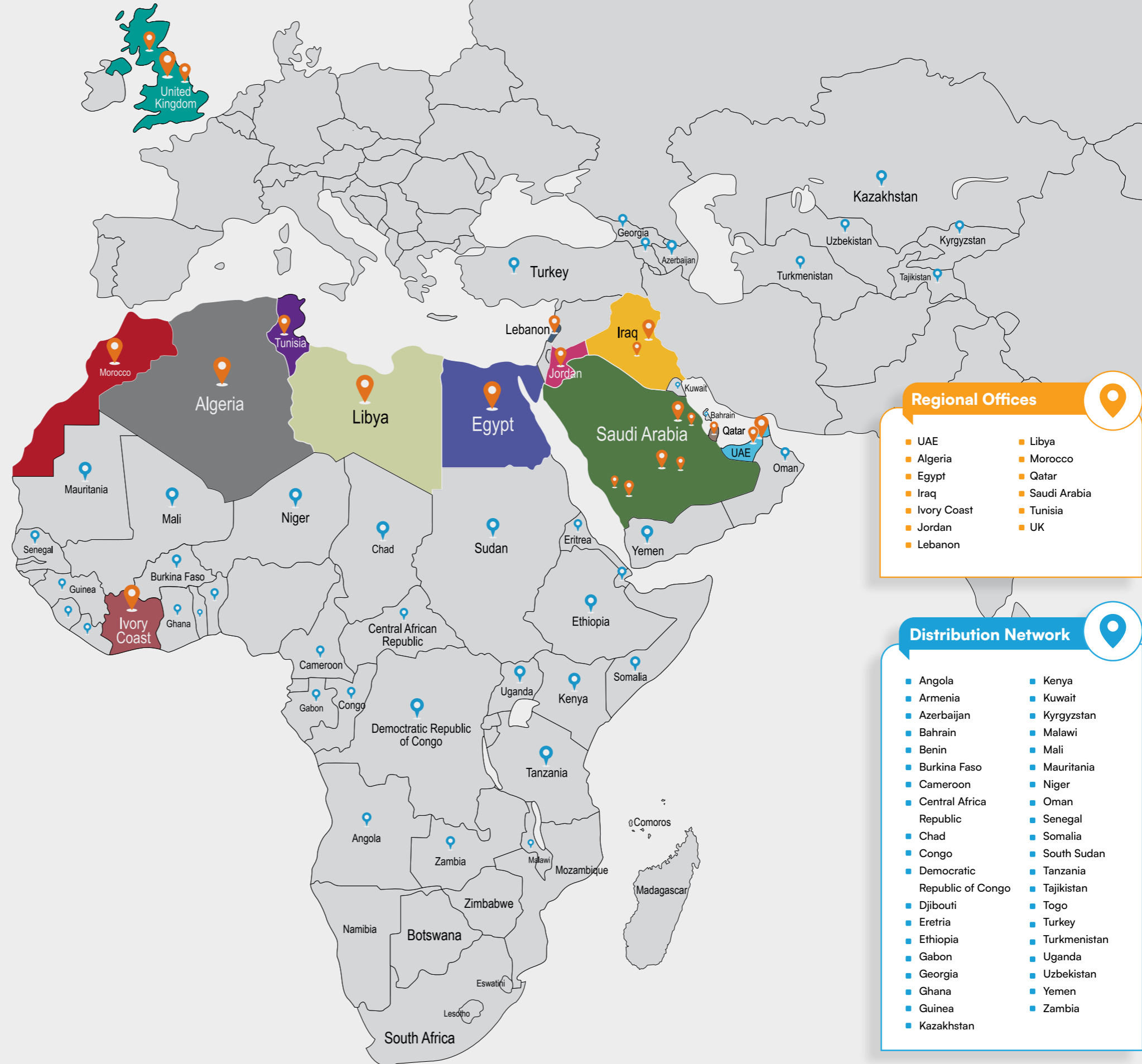
# Regional & Market Presence

Our firm belief is that complete product and service satisfaction can be consistently achieved when a distributor is aware of the customer's needs. Therefore, **BW** was initially supplied to our customers in the Middle East and Africa, it has earned a solid market presence for robustness in harsh climates; they are now supplied all over the world due to their reputation for quality, reliability, and performance.

Our customers have lauded us for being with them at every stage right from the product introduction and description to the order placement, delivery, and support. This personal handling of our customers and other stakeholders has helped us expand our presence globally.

Our network of thousands of outlets across Europe, the Middle East, and Africa means that there is always a member of the **Rolman World Group** - and **BW** - close by. With our extensive industry knowledge, and geographical placement we are able to deliver quickly, reliably, and accurately anywhere in the world.

“Rolman World Group has **25 branches** strategically located in **13 key EMEA countries.**”





## Production

**BW** bearings are manufactured at specialized and strategically selected manufacturers. These manufacturers are selected based on their ISO 9001 accredited capabilities, raw materials selection, manufacturing process, capabilities of heat treatment and grinding processes, as well as online and offline quality control processes, etc. they should also work within tight guidelines and under efficient management quality systems. By measuring up to these standards the whole production process, from raw materials to finished products, guarantees reliable, efficient production and 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 produce high-quality products. BW bearings are equipped with many testing and measuring instruments and equipment that are of world-class standards, thus ensuring product quality will achieve global bearing standards.



## Quality Assurance

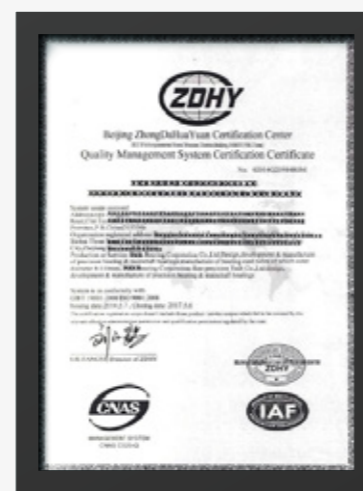
Quality is one of the cornerstones of BW bearings philosophy — **Quality & Value** — and this remains the key to our reputation and success worldwide.

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

**BW** undergo 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 processual specialists ensures 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 and lastly 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.

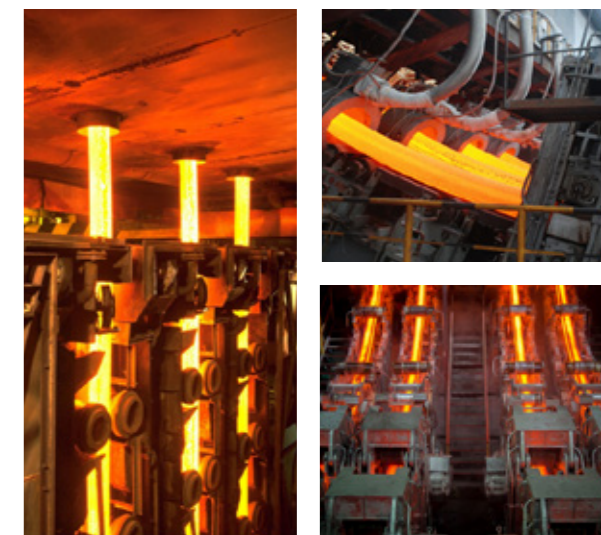


## 01 Raw Materials

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

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. (SAE 52100 / GCR 15), a steel containing approximate 1% carbon & 1.5%chromium.

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 customer's operations and applications continue to work even in extreme working environments



HARDNESS



FATIGUE



STABILITY



STRENGTH



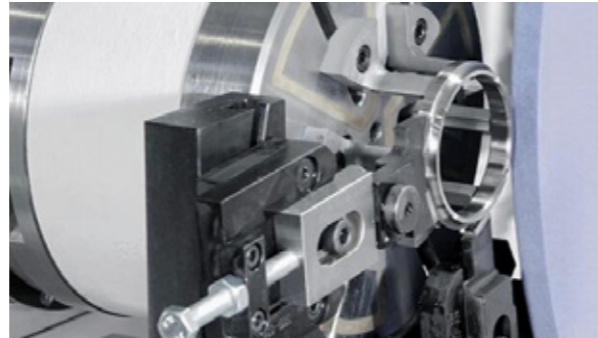
RESISTANCE



## 02 Turning Processing

The turning processes are typically carried out on a lathe and can be of four different types; such as straight turning, taper turning, profiling, or external grooving.

Those types of turning processes can produce various shapes of materials; such as straight, conical, curved, or grooved work pieces. In general, turning uses simple single-point cutting tools. Each group of work piece materials has an optimum set of tool angles which have been developed through the years.



The main purpose of turning is:



Make the finished ferrule exactly the same shape as the final product.



Create favorable conditions for the subsequent grinding process. Turning method: Concentrated process method: Complete small volume production of all turning operations on a single machine. Dispersion process method: A mass production of a certain turning process is completed on a single device.

## 03 Heat Treatment

Heat treatment is a key process to enhancing 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.

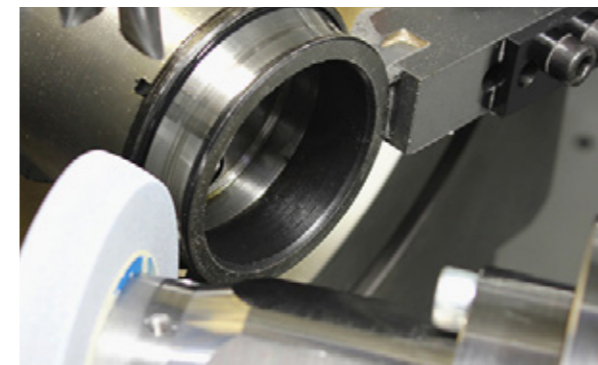
By controlling heat treatment accurately, a wider range of material properties can be achieved - including tougher steel which can withstand the demands of specific industrial applications, giving better wear resistance, and enhancing bearing lifespan.



## 04 Grinding

A series of advanced numerically-controlled, grinding equipment has been introduced into the production workshop, utilizing a centralized filtration and cooling system.

Altogether with the production equipment suppliers, the grinding, ultra-precision, fully automated integrated production lines. BW bearing's mechanical processing includes: rolling - raceway grinding - super finishing - demagnetization.



## 06 Quality Inspection



Once assembled, BW bearings are tested for noise and precision. Therefore, quality inspection is the necessary procedure before BW bearings leave manufacturing factories.

## 05 Assembly



Assembly of the bearings is also carried out via automatic lines without the direct intervention of the operator. During and at the end of each production phase of BW bearings, the bearings are routinely inspected and conformity tested to ensure that they meet the strict quality control guidelines.

The bearing assembly is the final step in the bearing production process and has an impact on bearing performance. The main purpose of bearing assembly is:

Assembling parts (outer rings, inner rings, balls/rollers, and cages) that have been processed in a variety of processes into bearing products.



Assembled into bearing products with various precisions, various clearances, and other special requirements according to different technical requirements.



## 07 Traceability

Traceability allows us to see where the material has come from, date of production, factory code, bearing type and number, quantity and weight.





# Quality Path

**BW** bearing facilities have comprehensive bearing testing capability to ensure that the bearing and materials (steel and greases) are analyzed and the qualities adhered to. Our technical staffs are expert engineers and qualified technicians ensuring that each stage of the quality control process meets our quality levels and that 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, and material testing. BW bearings rely on the quality of its employees and we are committed to training all our staff regularly to improve their professional skills. BW bearings take great pride in ensuring its staff is at the cutting edge of technology in their respective associated 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 all products.

## 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 - to enhance quality.



# Technical Devices



01



## CMM 3D

Ensuring BW bearings manufacturing is precise against the shape and measurements in order to verify the conformity of the prescribed values.



02



## Test Platform

Test platforms are used to ensure bearings are fit for the purpose.



03



## Vibration

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



04



## Hardness

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



05



## Roundness

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



# Technician 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 customized 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 are scheduled continuously, and a special maintenance team has been set up to conduct routine maintenance and inspection of production and testing equipment, thus reducing 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 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 of the importance of bearings in machinery. These sessions also enable us to understand their markets, industries, and application requirements, which allow us to maintain their needs.



# Application

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



# BW Portfolio

**BW**, produced within microns of perfection, have been developed to reduce friction and allow for a smoother rotation, achieve high speeds and loads; and manage large amounts of torque.

Starting from bearings, with growing demands from the market, **BW** products have been developed covering a range of bearings, universal joints, lubricants, chains, brake pads, filters, generators, and other automotive parts.



The “**BW bearings**” & “**BW International**” brands are global trademarks registered around the region, and our products are available from our intercontinental partners.

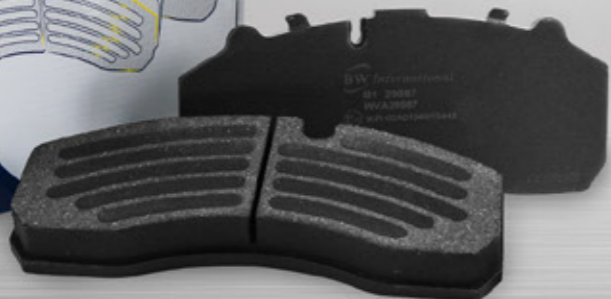
Based on the philosophy of “**Quality & Value**”, we only allow products that have passed our strict quality process into the **BW** product range.



As part of our drive to continually expand our **BW** range for customers we have also introduced a new range of non-bearing products under our **BW International** brand.

Still matching our high standards of **Quality & Value**, this new range of products covers other replacement parts for the Industrial and Automotive aftermarket.









## Industrial

Industrial Bearings are crucial components used in various types of machinery and equipment to facilitate the smooth movement of rotating or linear parts. They play a fundamental role in reducing friction and ensuring that machines operate efficiently and reliably.



Industrial Bearings are used in a wide range of applications, including manufacturing machinery, automotive systems, construction equipment, aerospace components, power generation, and more. They are essential in virtually all industries where machinery and equipment are used.

Industrial Bearings come in various types, each designed for specific applications. Each type is suited to different loads, speeds, and environmental conditions. In addition to standard Ball and Roller Bearings, BW Bearings has also developed Pillow Blocks, Plummer Blocks, Adapter Sleeves, Linear Bushes, Rod Ends, Steel Ball/Roller & other special ranges of Bearings products. The special Bearing range designed for specific application including key replacement parts for Forklift, Agriculture Machines, Sheaves, Excavators, and Slewing Bearings for construction machinery.

## Automotive



Automotive Bearings are specialized types of Bearings designed specifically for use in vehicles, ranging from passenger cars to heavy-duty trucks and commercial vehicles. They play a crucial role in various automotive components and systems, contributing to the smooth and efficient operation of the vehicle.

Automotive Bearings serve the primary function of reducing friction and enabling the relative motion between different vehicle components. They are essential for supporting and facilitating the rotation of wheels, axles, transmissions, and other parts.

Automotive Bearings come in several types, each tailored to specific applications within a vehicle. Common types include Wheel Bearings, Wheel Hub unit and Needle Bearings etc.

BW Bearing carries a complete range of Automotive Bearing range, which offers customer an economical option for bearing solutions from genuine and OE parts suppliers. We offer alternatives that match the original parts. Product range includes, Wheel Bearings, Wheel Hub Unit, Clutch Release Bearings, Tensioner bearings, Steering Bearings, Water Pump Bearings, Universal Joints & Engine Accessory Bearings.

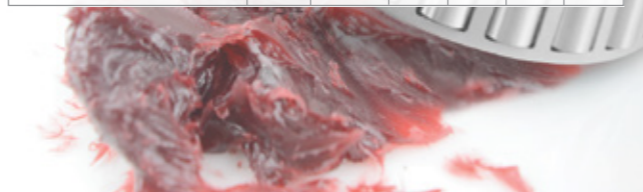
## BW Lubricants



To complement our full range of bearings to suit most applications, we have developed our own range of BW lubricants, manufactured to the highest OE standards, and covering a wide range of automotive and industry specific applications. These quality greases are developed to achieve even further value from our bearing solutions.

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 European Middle East & African climates. Tribology is the specialist science of friction on and a critical element in the life of bearings, and any spare part of motion required in machinery. By selecting the correct lubricant for their applications, customers maximize their bearing life, save money, improve efficiency, and reduce unplanned downtime.

Available sizes	200g Pouch	400g Cartridge	500g Tin	1 Kg Tin	5 Kg Tin	18 Kg Tin
<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			✓			✓
<b>LGHB 2</b> High Load, High Viscosity						✓



## BW Roller Chain

BW Roller Chain range covers both single and multiple strands as per ANSI & BSI standards and is designed and manufactured to meet our customers' application requirements. In addition to the chain, we also offer additional connecting links and offset links, enabling customers to fix the chain as required and/or customize its length.



## BW Spare Parts



Our top-quality spare parts are expertly designed to excel in demanding conditions, ensuring reliability and performance in markets spanning the Middle East, Africa, Asia, and Europe. Our extensive product range varies from clutch sets and fuel filters to universal joints, C.V. joints, and hoses.

## BW Brake Parts

In our pursuit of Quality and value, we constantly enhance our product range. We recently introduced the BW brake pads within our "BW International" brand, catering to various customer requirements, including Brake Pads, Shoes, Discs, and Drums.



## BW Injection Parts



From light commercial vehicles to heavy-duty trucks, our advanced Diesel Fuel Injection Parts offer enduring, cost-effective performance. Each component undergoes rigorous testing to ensure top quality.

## BW Diesel Power Generators



BW Diesel Power Generators offer reliable standby and prime power solutions, designed for high-demand environments in the MEA region, capable of withstanding extreme conditions. Our range is for 50Hz/60Hz and covers 15kVA to 2500kVA with UK-built PERKINS engines for cost-efficient, high-density power. STAMFORD alternators ensure stable performance across voltage systems, while the DEEPSEA control system sets global standards. In addition, we provide comprehensive after-sales engineering solutions for filtration and maintenance.

## BW Gasoline Generators



Our latest edition to our growing product range is BW Generators. Launched to provide a wide range of top-quality portable gasoline inverter generators. Each model is designed intricately with the latest technological features and the capability of providing an impressive amount of power for different usage needs.

### Key features

- Pure sine wave technology for sensitive devices
- Eco-friendliness
- Easy maintenance with overload and low oil protection
- Quiet operation
- Fuel efficiency
- Lightweight & compact design





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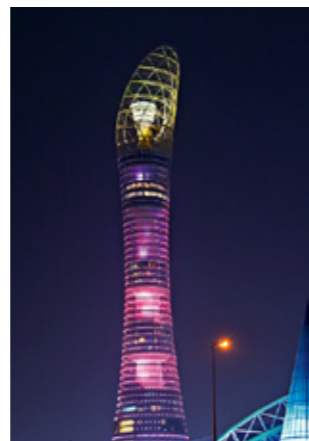


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