



# PBF

POLISH BEARINGS FACTORY

## Fabryka Łożysk Tocznych - Kraśnik S.A.

**Fabryka Łożysk Tocznych – Kraśnik S.A.** is the oldest and largest manufacturer of rolling bearings in Poland.

The history of the company starts in 1938, with the launching of Ammunition Plant as a part of The Central Industrial District. The first bearings were manufactured in 1949, and the first batch was exported in 1955. Since the beginning of its operation, the factory had manufactured over a billion pieces of bearings which were then supplied to receivers all over the world.



## PRODUCTS AND APPLICATION

The basic design groups include ball bearings, tapered roller bearings and cylindrical roller bearings. Types of bearings for special applications are covered by a separate category. In total, there are over 1500 types of bearings in our assortment. The majority of production (nearly 60%) is supplied to the automotive industry. The manufacturing of agricultural machines is another branch of industry, which receives ca. 12% of our production. Moreover, our bearings are used in metallurgy, mining, electric motors, forklifts and others.

### BALL BEARINGS

(32÷268mm, 240÷1230mm)

- single-row radial
- double-row and multi-row radial
- single-row and double-row angular contact
- thrust



### CYLINDRICAL ROLLER BEARINGS

(30,52÷140 mm, 187÷1770 mm)

- single-row radial
- double-row and multi-row radial
- thrust



### SPHERICAL ROLLER BEARINGS

(130÷630 mm)



### TAPERED ROLLER BEARINGS

(35÷240mm, 260÷1130mm)

- single-row radial
- double-row and multi-row radial
- thrust



### SPECIAL BEARINGS



### AGRI HUBS



### OTHER PRODUCTS

- grinding spindles
- elements after forging and pressing
- machines and parts

## DEVELOPMENT

In our factory, development means the measurable investment in each stage of production which is fully carried out in Kraśnik. Recent modernization of machinery is a range of benefits for the users of our bearings. The most visible benefit is even higher quality of our products.



### Forging

Bearing rings' forgings are forged on HATEBUR automatic presses. During this operation the temperature and forging parameters are continuously monitored and controlled.



### Annealing

Forgings are then spheroidizing annealed in a protective atmosphere in high-performance SECO/WARWICK EUROPE furnaces. The annealing parameters are automatically controlled.



### Turning

Turning is carried out mainly on multi-spindle semi-automatic Gildemeister lathes and MAZAK, MURATEC and DOOSAN numerically controlled machines. These lathes provide the highest precision and dimension repeatability of the rings.



### Heat Treatment

Heat treatment is carried out in a protective atmosphere on WIENSTROTH and SIEMENS hardening lines with automatic registration of technological parameters and constant process monitoring.



### Grinding

Grinding and superfinishing are carried out on the numerically controlled machines with servomotors and devices maintaining constant grinding speed. They are manufactured by such companies as BWF, Thielenhaus, Rowland. We also produce and modernize our own machines in Repair and Modernization Department.



### Assembling

For a serial production the bearings assembling is carried out on automatic lines and in short semi-automatic lines or manually in short series production.

## QUALITY

The bearings made in Kraśnik have the highest quality, which can be compared with the quality of „premium” group manufacturers. It is confirmed by the Integrated Management System which comprises the management of quality, environment, health and safety at work (Certificates IATF 16949, ISO 9001, ISO 14001), a wide range of customers – well-known international companies, and over 70 years of experience in the bearings manufacturing, as well as highly qualified staff. The company has its own R&D centre which designs and constructs bearings according to the customers requirements, as well as develops the existing solutions. The manufactured bearings are tested in the company's laboratory on testing rigs built in accordance with the customer's requirements. Since the bearings are fully manufactured in Fabryka Łożysk Tocznych - Kraśnik S.A. (starting from the raw materials to the complete bearings) and the materials are purchased from European suppliers, the products are guaranteed to be the Polish origin.

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