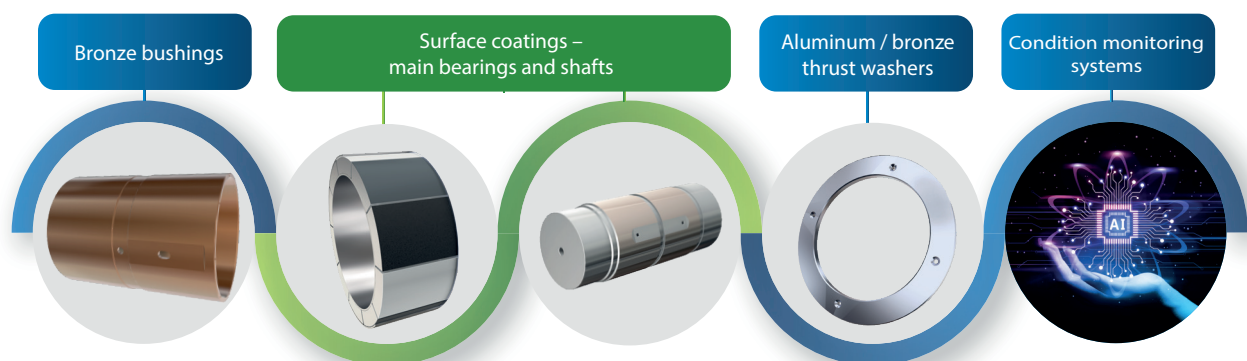# ENGINEERED**PARTS**

DEMANDING COMPONENTS
FOR LONGER LIFE AND MORE EFFICIENCY

Rheinmetall develops and manufactures high-precision components and complex assemblies according to customer-specific requirements for a wide range of industrial applications.

Optimized production processes with a high degree of vertical integration combined with a closed material loop enable efficient and sustainable component manufacturing.

Bronze bushings

Surface coatings –
main bearings and shafts

Aluminum / bronze
thrust washers

Condition monitoring
systems

PASSION FOR **TECHNOLOGY.**

RHEINMETALL

MATERIALS AND GEOMETRIES

Continuous casting (in-house)
- Various bronze alloys
- Aluminum alloys
- Diameter up to 500 mm

Centrifugal casting (in-house)
- Steel white metal (leaded and lead-free)
- Steel-Bronze
- Diameter up to 380 mm

Other materials and dimensions can be machined in-house
- Steel, copper, aluminum and others

TECHNOLOGIES AND COMPETENCIES

Coating systems
- Polymer coating (PEEK, PAI and others)
- Electroplating (tin, nickel and others)
- Laser cladding (Cu-based materials)

Condition monitoring
- Based on artificial intelligence
- Condition monitoring via vibration measurements
- Monitoring of mixed friction and wear

Application-specific design and process development
- HD and EHD simulation, multi-body dynamics
- Validation with specific test equipment
- Material development and optimization
- Industrial engineering and process development

QUALITY
- The complete manufacturing process is monitored and controlled by a proven set of quality assurance measures

CERTIFICATES
- Made in Germany
- ISO 9001, ISO 50001, IATF 16949, ISO 14001

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www.rheinmetall.com
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PASSION FOR **TECHNOLOGY.**

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