Applications of roller bearings:
Passenger cars and trucks, mechanical engineering, railways, wind turbines, aerospace technology, mining and other material handling technology, other industrial applications and many uses in everyday life.

ROLLER BEARING INDUSTRY

INDIVIDUALITY MEETS ECONOMY

Grinding tools tailored to the specific requirements of the roller bearing industry ensure the economical production of various types of ball and roller bearing components.

ATLANTIC has decades of experience in the field of grinding and finishing tools and, as a competent partner, optimises production processes. By consultation and taking into account the various grinding and finishing processes, individually tailored grinding wheels and honing stones are developed.

„INDIVIDUALITY IS OUR STRENGTH.“

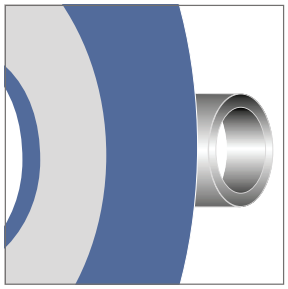
BALL BEARING

High efficiency and precision are required in the manufacture of ball bearings. Even with the production of large quantities at maximum productivity, consistently high quality must be guaranteed. This results in ball bearings that work reliably and safely even in continuous operation.

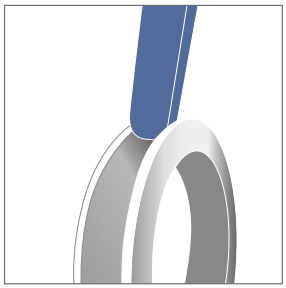
Customer benefits

Product portfolio for ball bearing production

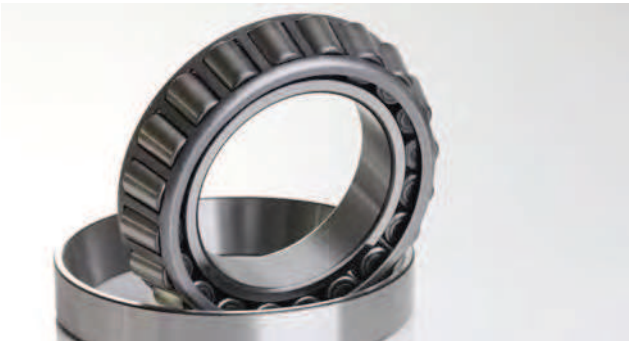
- Internal cylindrical grinding wheels
- Double sided face grinding wheels
- Grinding and regulating wheels for centreless external cylindrical grinding
- Raceway grinding wheels up to max. 125 m/s peripheral grinding wheel speed
- Honing stones for raceway finishing



CYLINDRICAL GRINDING
RACEWAY GRINDING
INNER RING



HONING & SUPERFINISHING
SHORT STROKE HONING



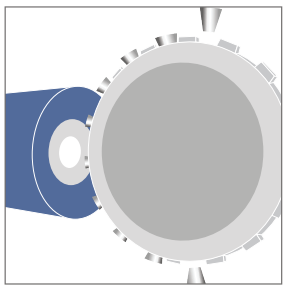
BALL BEARING

Due to their design and machining, roller bearings guarantee maximum axial and radial stability even under the highest loads. ATLANTIC is distinguished worldwide by its high level of expertise in the development, manufacture and application of grinding tools for the manufacture of components for roller bearings.

Customer benefits

Expertise in the machining of roller bearings

- Centreless external cylindrical grinding (thrufeed and plunge)
- Internal cylindrical grinding
- Double sided face grinding
- Raceway grinding inner and outer ring
- Finishing
- Taper roller face grinding
- Sidewall grinding



SURFACE GRINDING
TAPER ROLLER END GRINDING

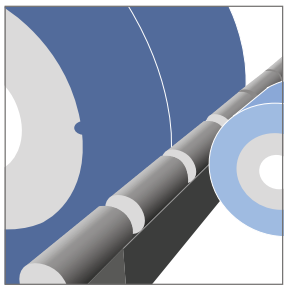
NEEDLE ROLLER BEARING

When machining needle rollers, individually specified and very hard vitrified bonded silicon carbide grinding wheels are used.

Customer benefits

Expertise in the machining of needle roller bearings

- Centreless external cylindrical grinding in thrufeed
- Extremely fine surface finish
- Low roundness deviation
- Reproducibility
- Guarantee of continuously stable processes



CYLINDRICAL GRINDING
CENTRELESS THRUFEED GRINDING

BALL GRINDING

Grinding and lapping wheels for balls made of steel as well as of ceramic in all diameters and batch sizes are custom-made. This results in optimum solutions for high stock removal rates, perfect surface finish and a long service life of the grinding wheel.

Customer benefits

Advantages for ball grinding production

- Absolute precision up to G5 and better
- Low diameter tolerance and shape deviation
- Exact surface finish
- Perfect roundness

PERFECT SURFACE ACCURACY EVEN WITH COMPLEX GEOMETRIES