

ROLLING MILLS CATALOGUE



ABOUT US

Our company, **Bombardieri S.p.A.** is a **mechanical workshop that provides precision machined parts and assemblies for Hot and Cold Rolling Mills.** Since the 1959 our philosophy has been based on quality and attention to the customer. We are responsive to our client's needs helping them solve complex manufacturing problems and meeting their crucial delivery schedules.

We have three workshops, two in Northern Italy and one in Mexico, all ISO 9001 certified.



HOT ROLLING MANDREL

Hot rolling mill mandrels of different design with centralized lubrication.

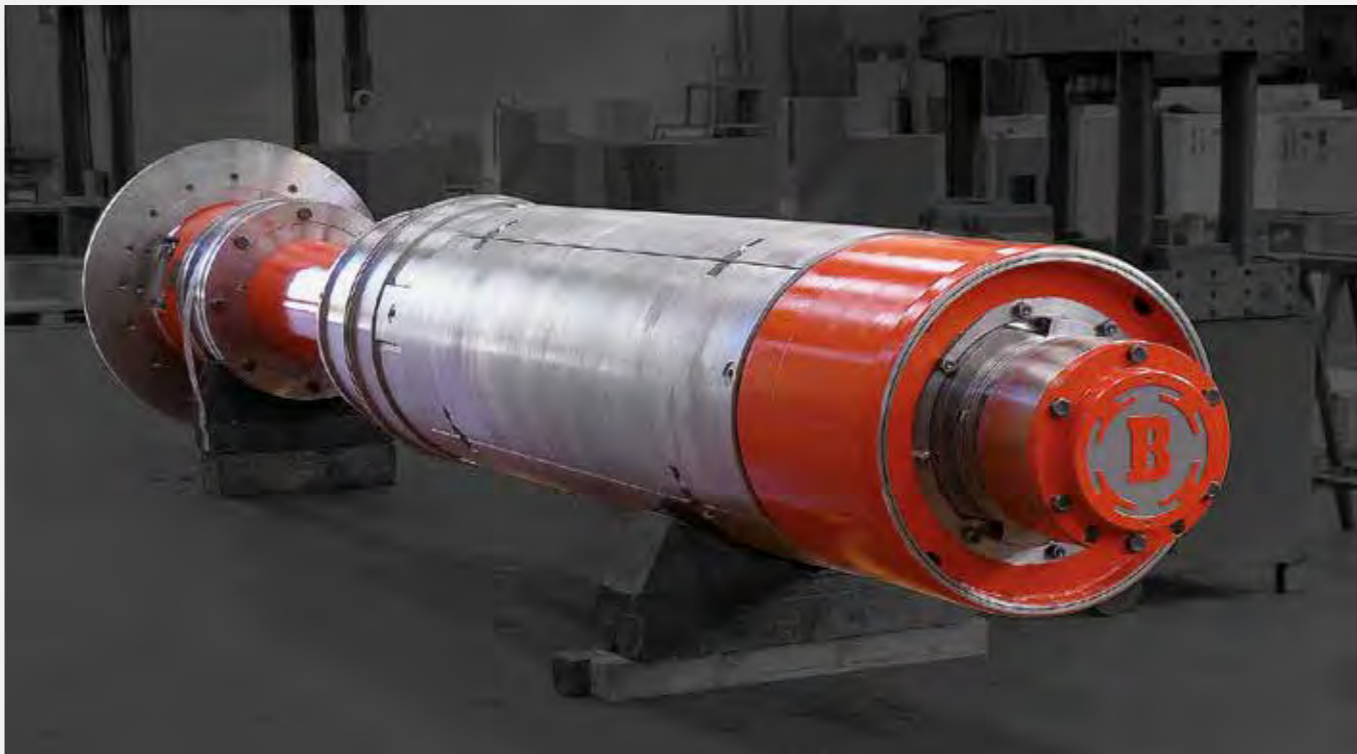
Stand-alone mandrels

Rear end of mandrel is equipped with a gear coupling, for connecting to the speed reducer. Mandrel bearings are supported by a dedicated frame. To replace the mandrel, the gear coupling is disconnected and bearing pillow blocks are opened.

Plugin mandrels

Spline teeth are machined on the mandrel shaft, which match with the gearbox output hollow shaft. Plugin mandrel can be extracted from the gearbox frontally.







COLD ROLLING MANDREL

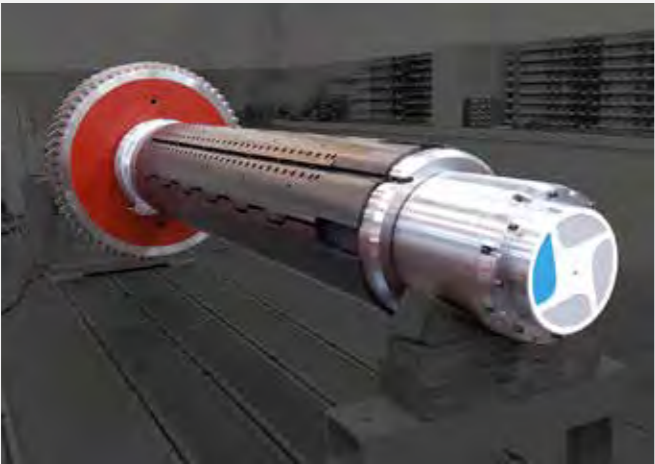
We deliver complete pay-off and tension reels mandrels of several different designs, i.e:

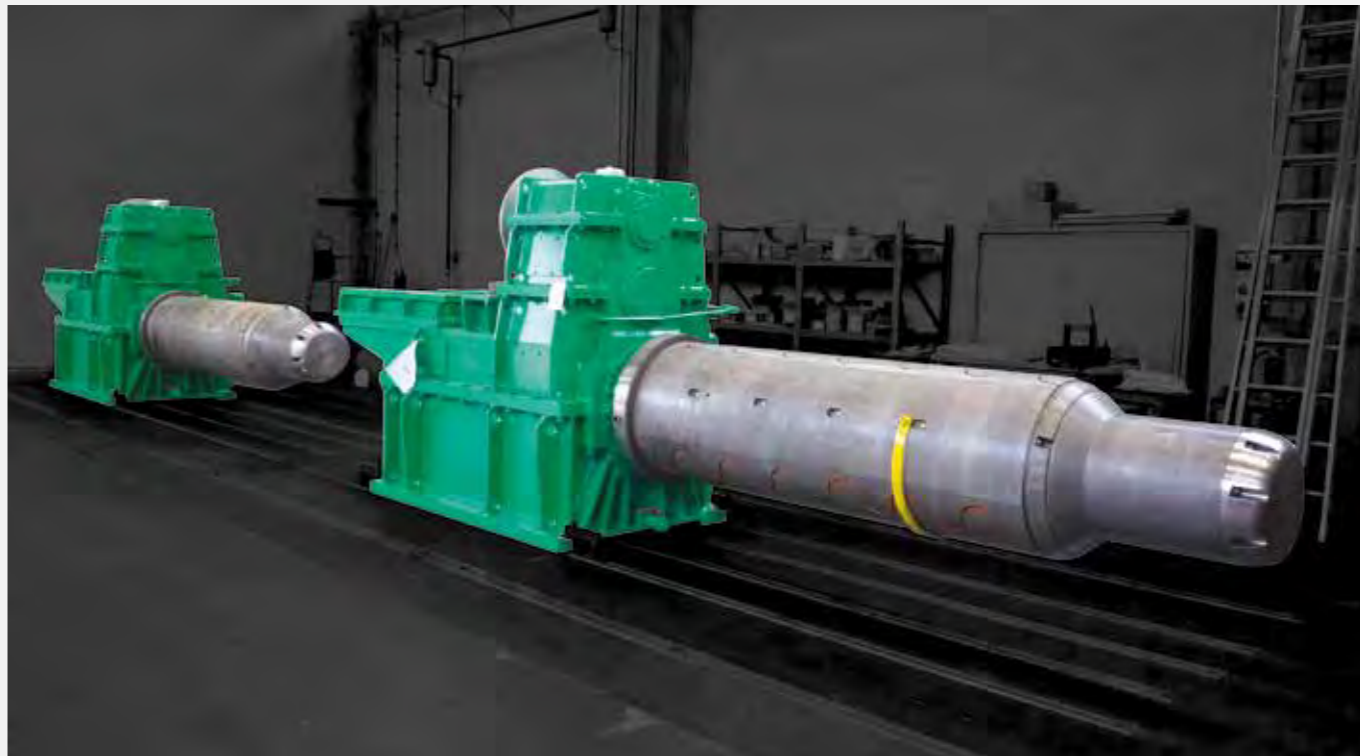
Wedged sleeve mandrels

Filler wedge mandrels

Wedged shaft mandrels

Our mandrels are always designed according to their specific duty, (coil weight, strip tension, speed) and special requirements (i.e. strip gripper, stepless expansion, rubber sleeve, etc...). Great care in details make our mandrels reliable, durable and easy to maintain.







HAGC CAPSULE

Automatic Gauge Control capsules for any type of mill:

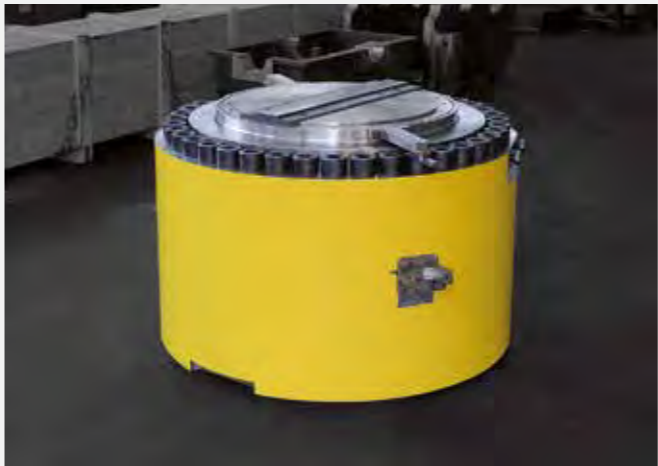
Wide plate mill

Steckel mills

Hot strip mills

Cold rolling mills

100% of our HAGC are pressure tested before shipment, dynamic tests can also be performed to certify the dynamic behaviour of a HAGC (hysteresis, step response).





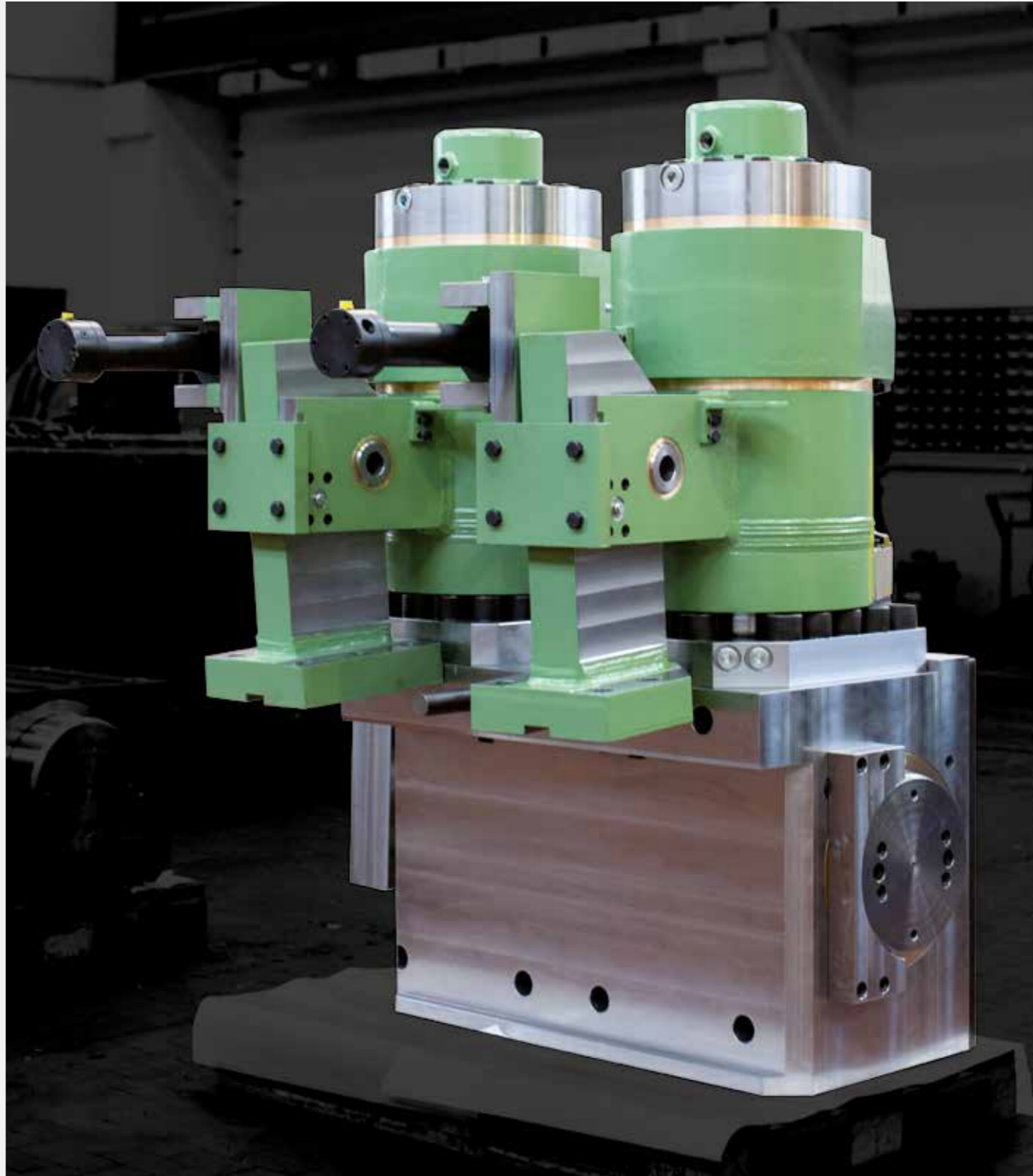
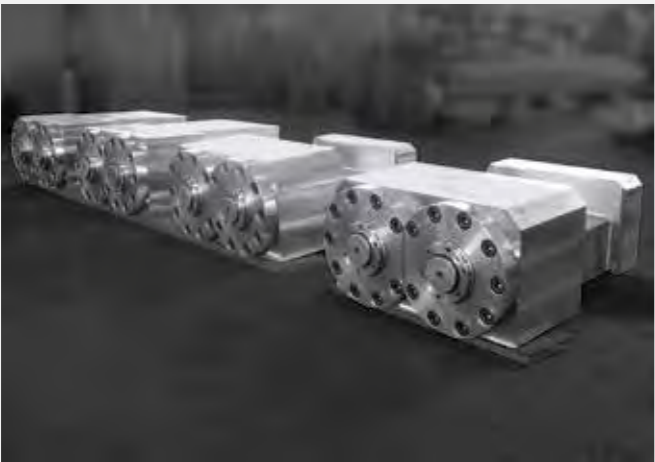


BENDING BLOCK

Fully assembled groups, ready for installation of any type of design:

- Large B-blocks for Heavy plate mills
- Compact T-blocks and L-blocks
- Standard Mae West blocks
- Multi-purpose blocks (WR bending and BUR Balancing)
- Special cold rolling mill blocks (C-blocks, E-blocks...)

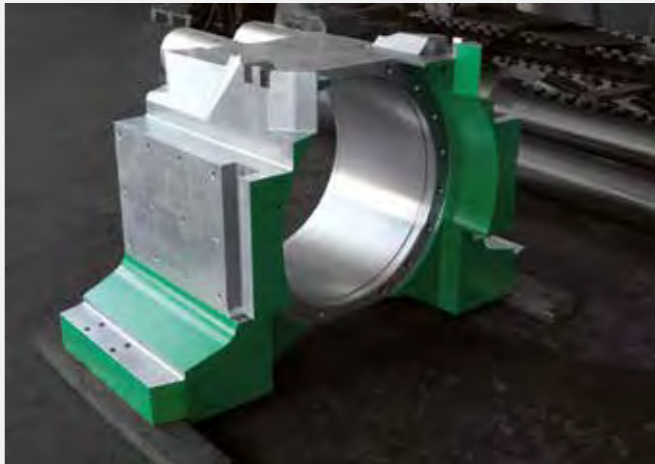
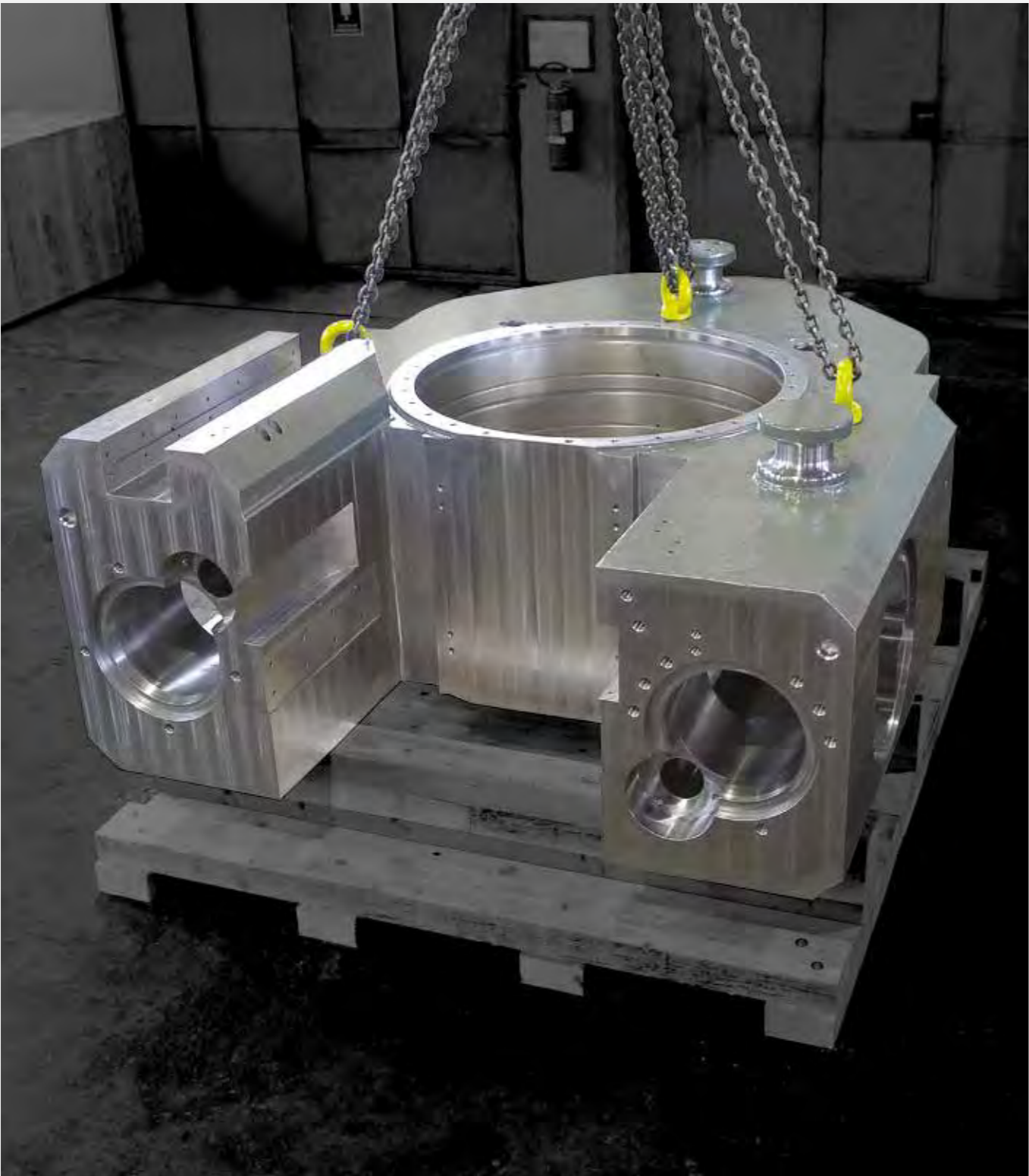


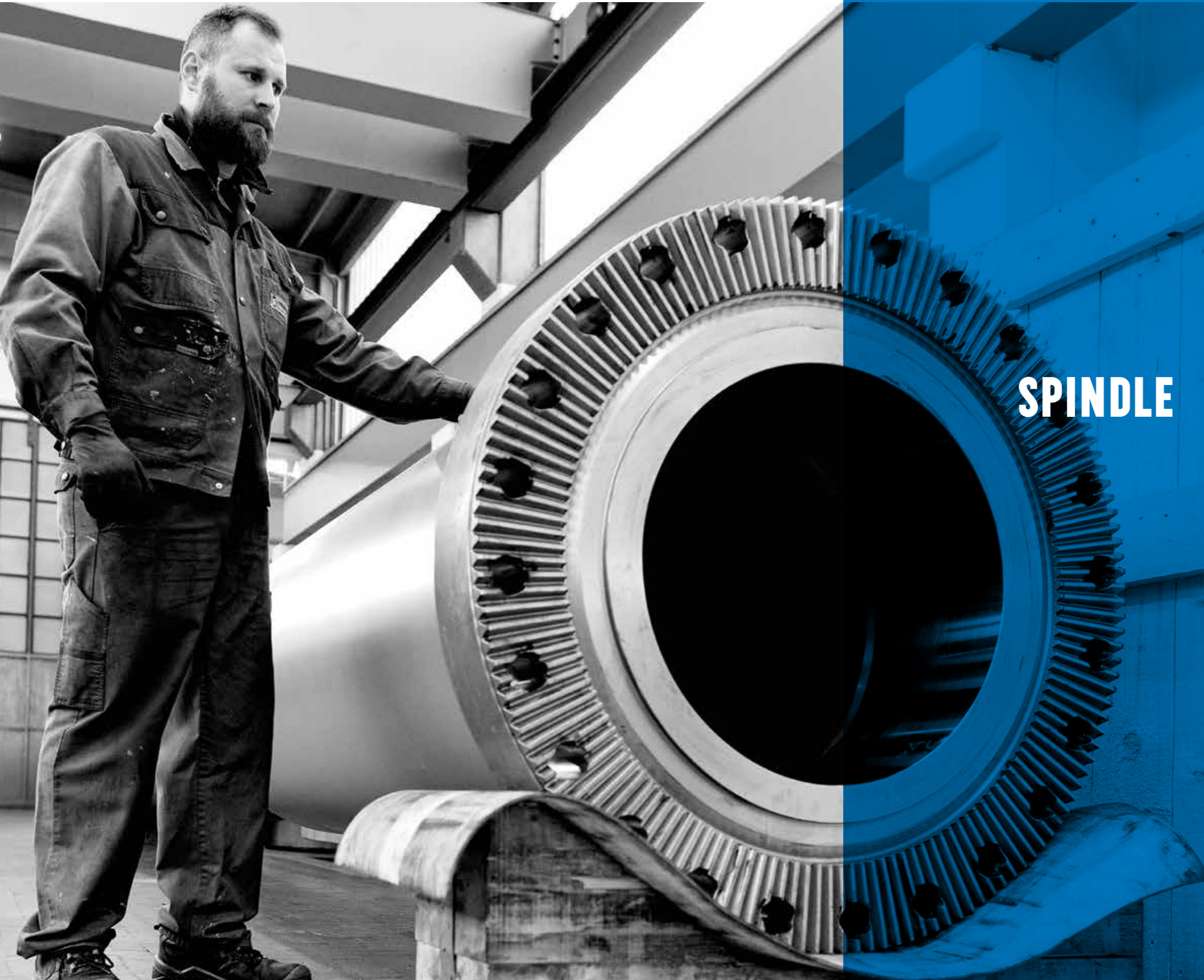




CHOCKS

Our production covers any type of chocks for Works and Back Up rolls. Upon request we provide refurbishing activities on large BUR chocks, bringing these “old beauties” shine again.



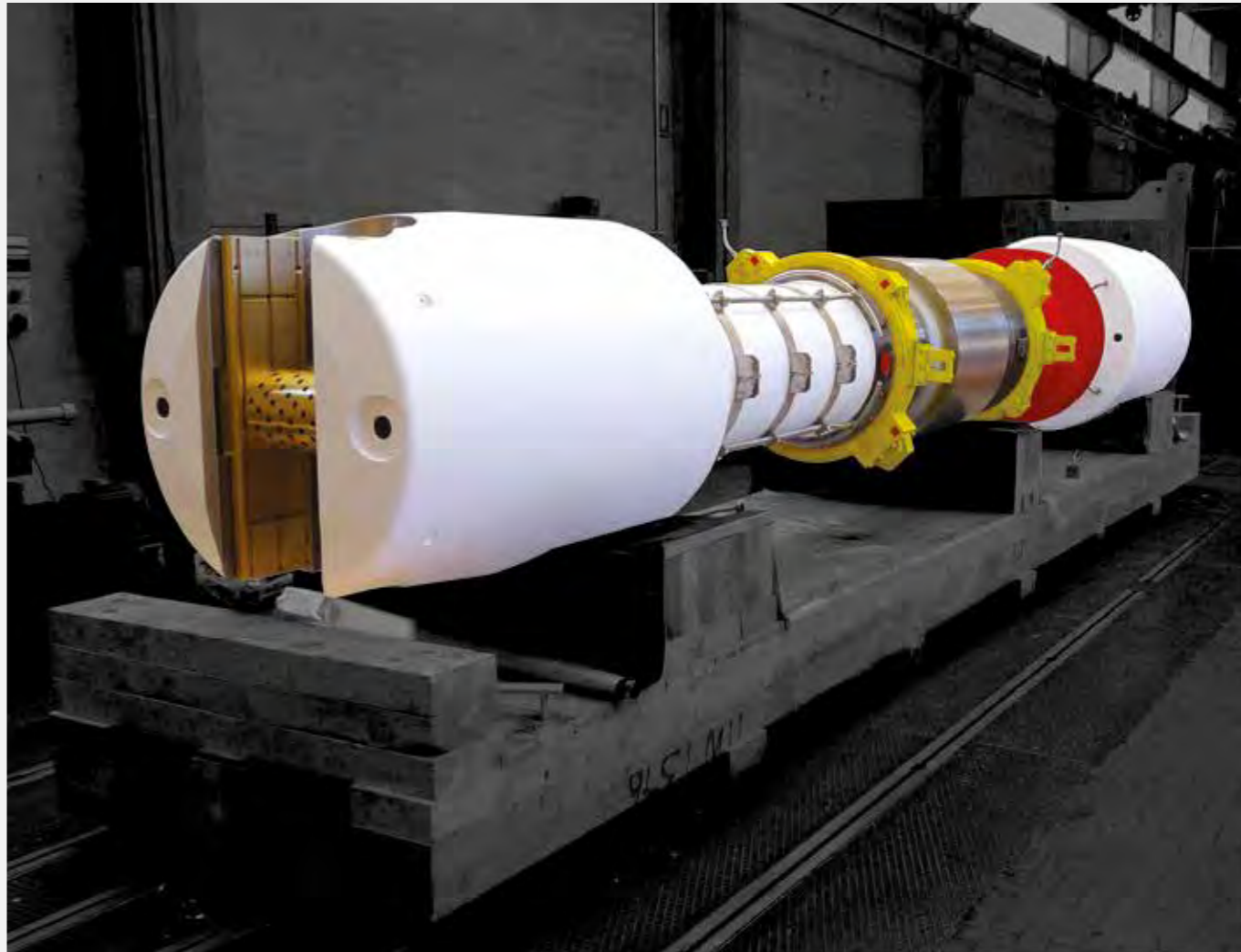
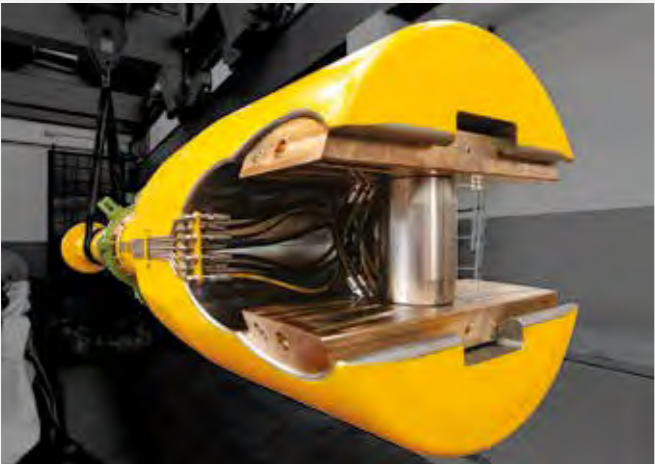
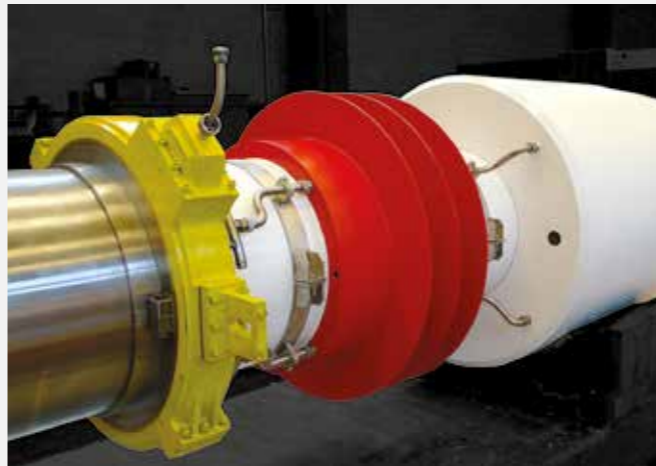


SPINDLE

Heavy duty spindles for demanding rolling mills, capable of bearing heavy impact loads are in our product portfolio too. We provide fully assembled spindles, ready for installation and complete of:

On board grease or oil lubrication system by means of rotary pumps

Bronze slippers of optimized design, for an even better lubricant distribution

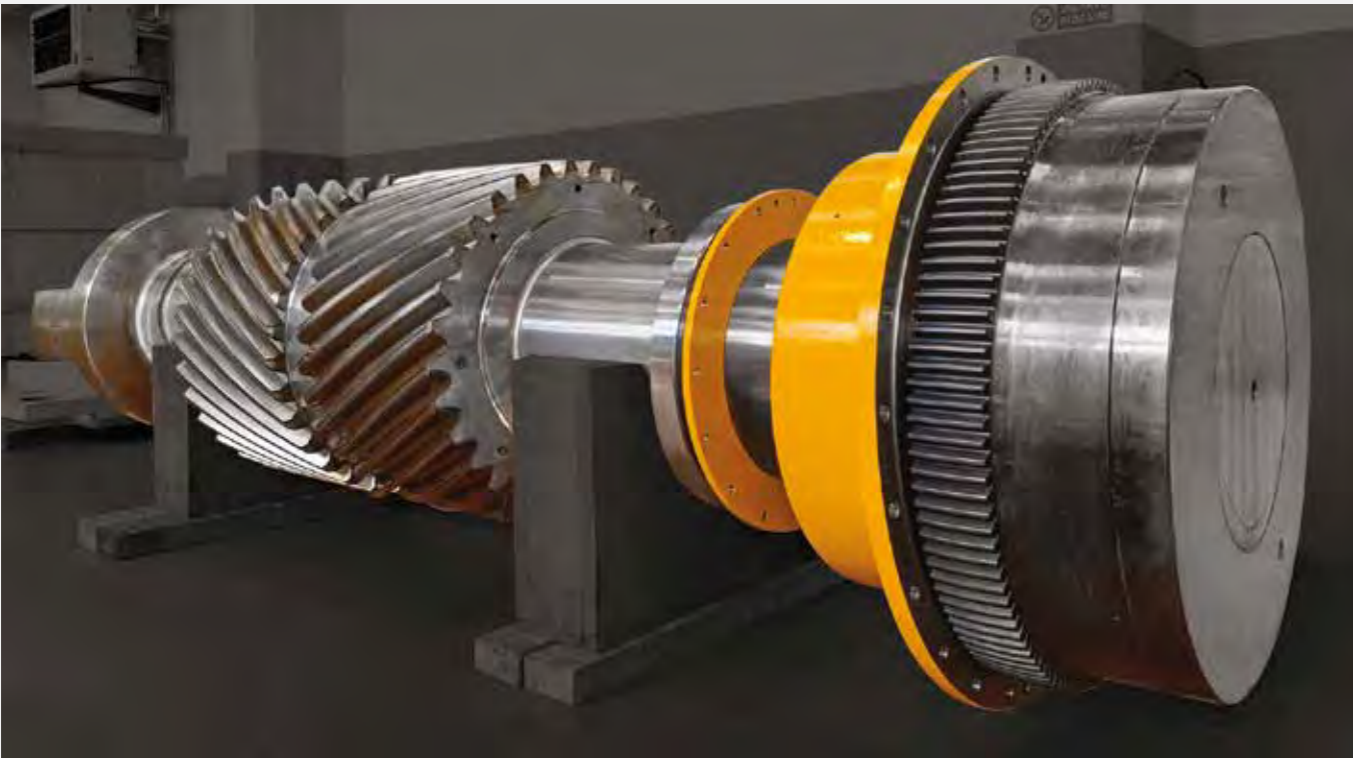


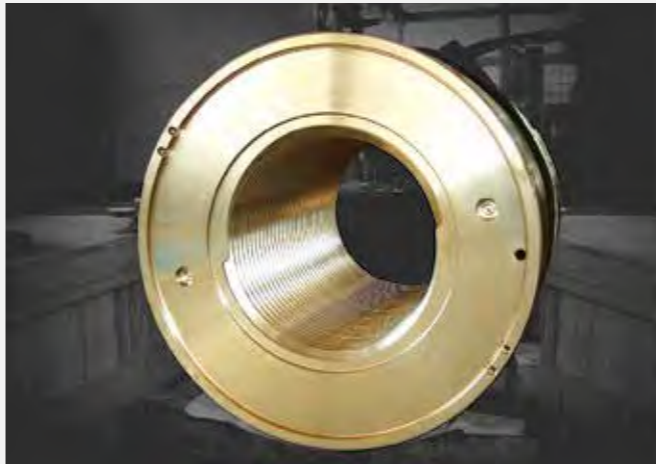


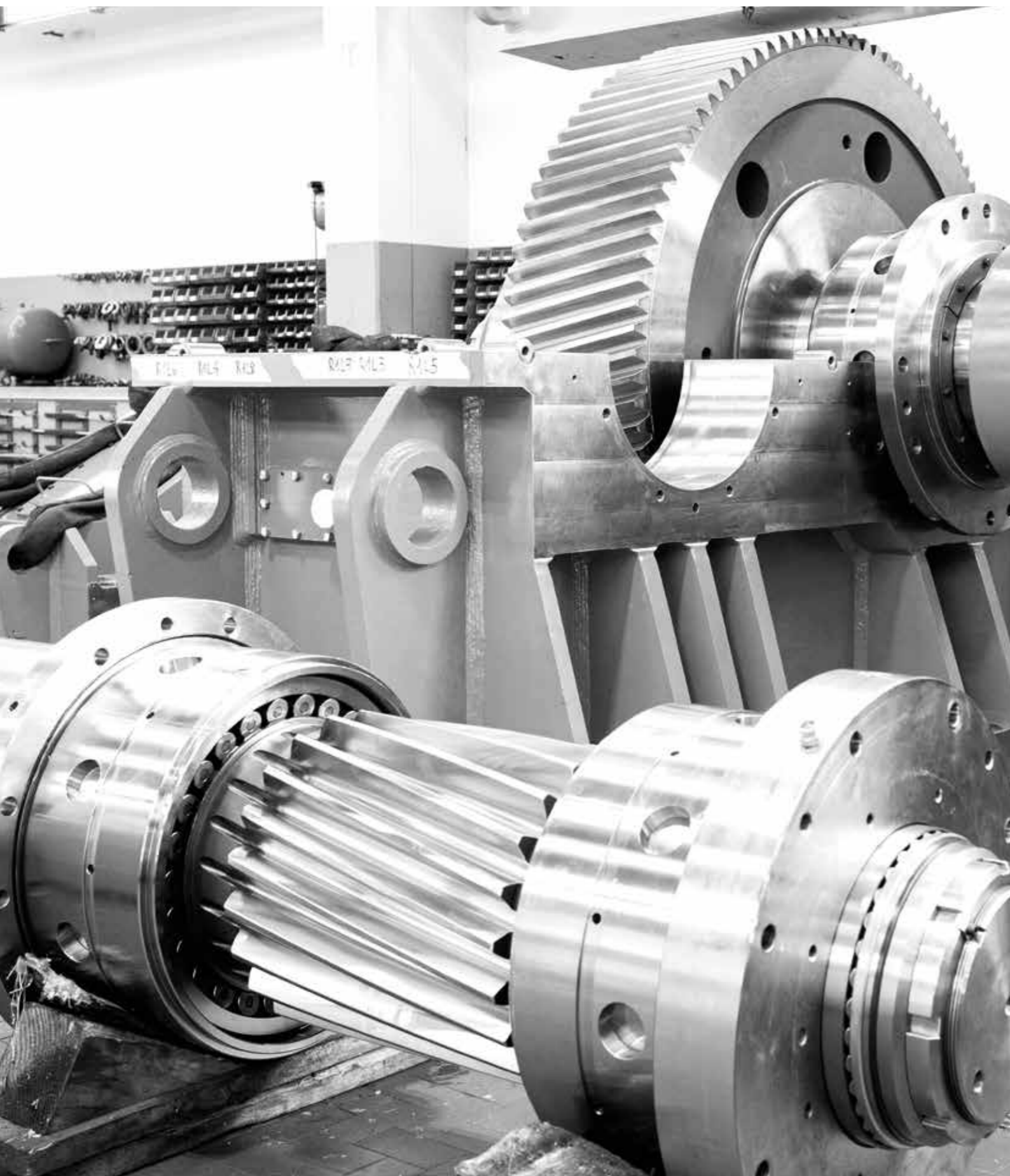


PINION, GEARS AND SCREW

Precisely machined Gears & Pinions and Screwdown for torque transmission and gap adjustment.







ASSEMBLIES

Our assemblies production includes the manufacturing of:

Finishing mill stand drive

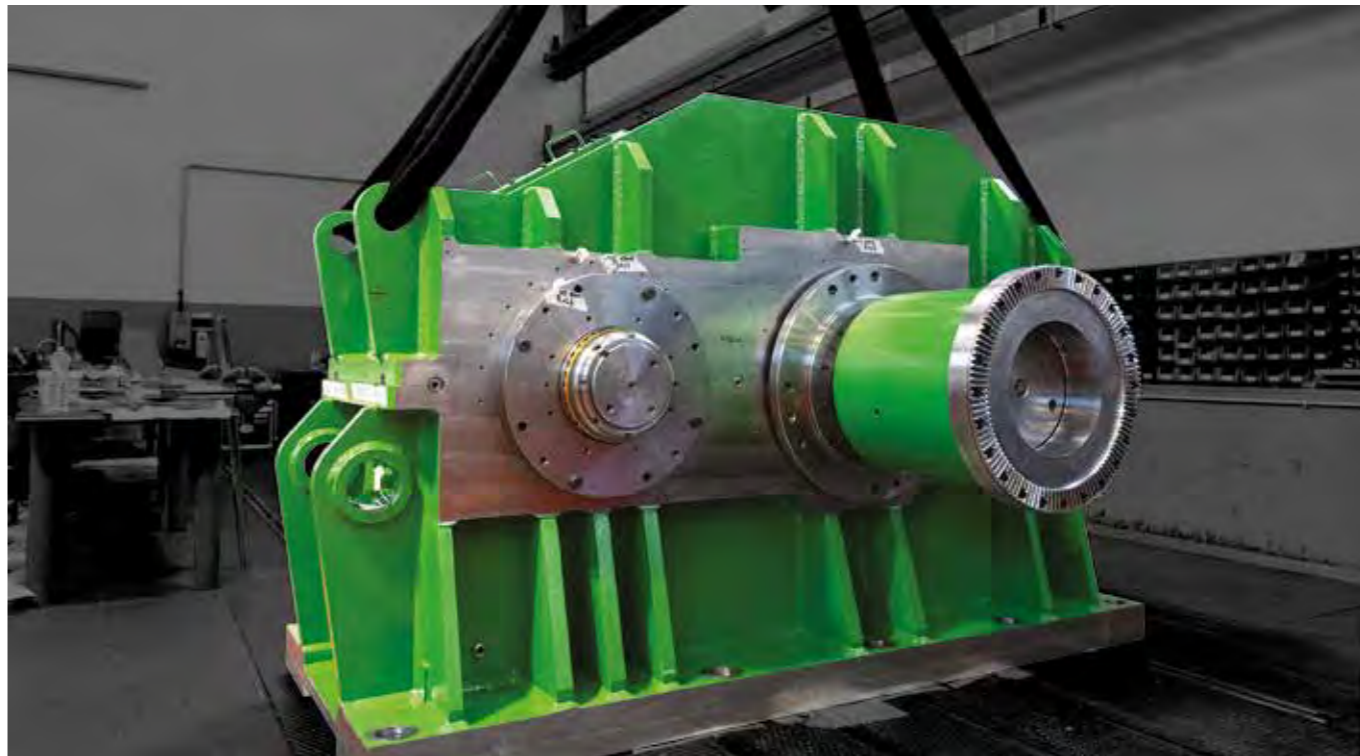
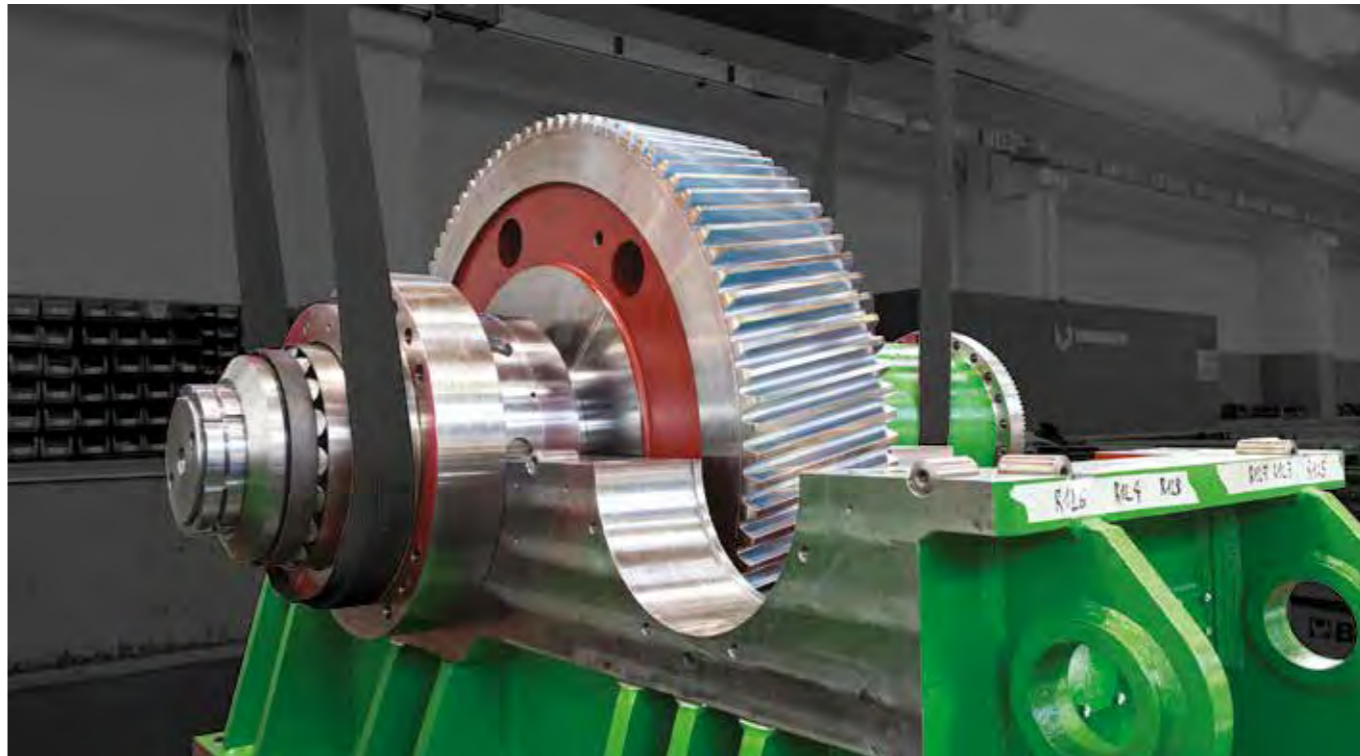
Drum type shear

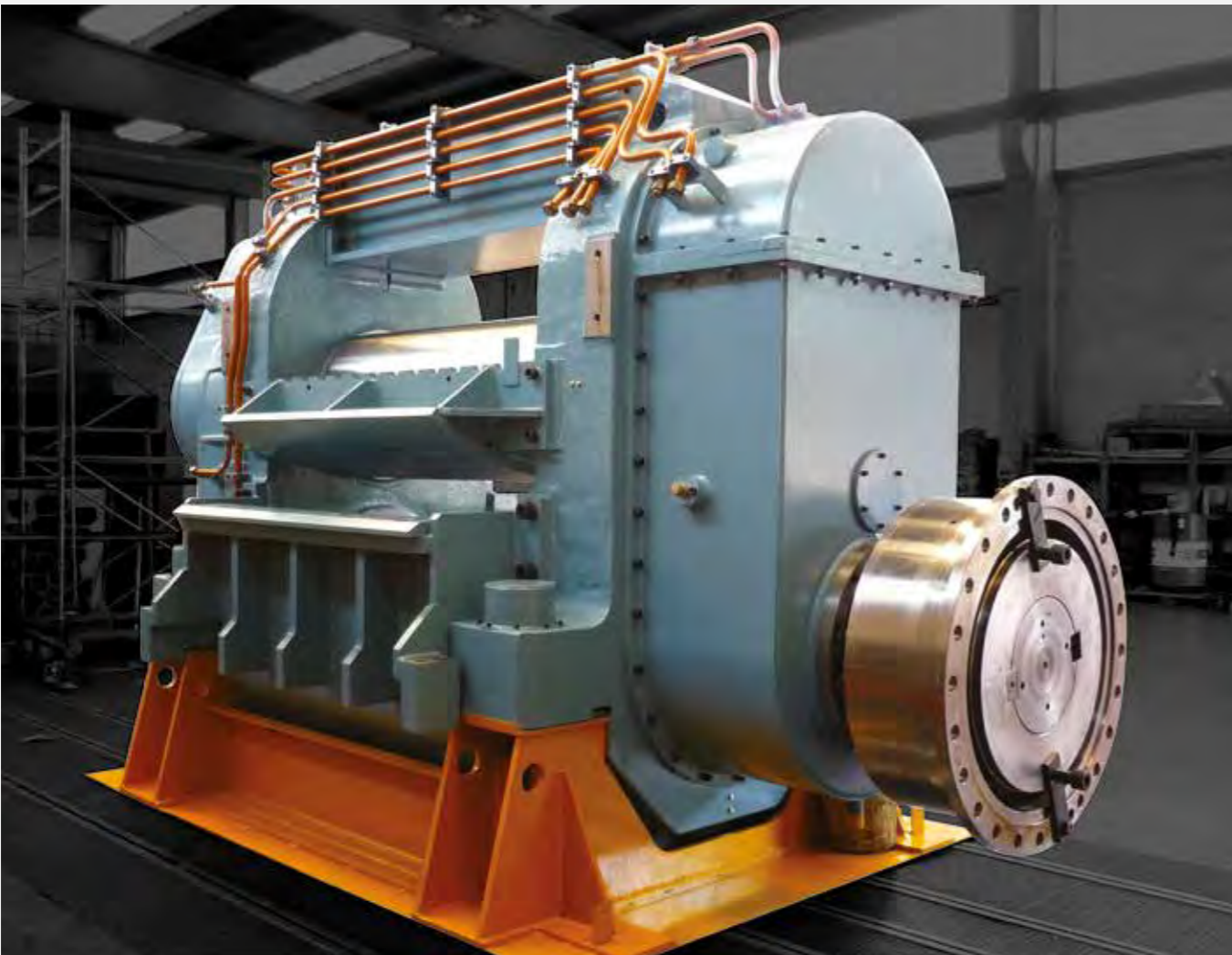
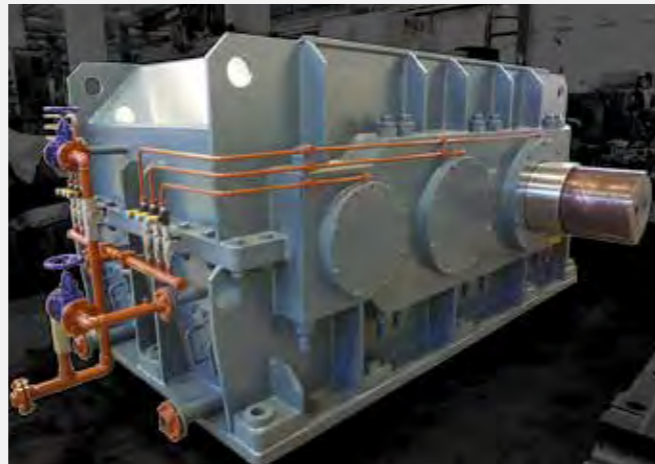
Rotary trimming shear

Double side trimming shear

Plate leveller combined gearboxes







THREE WORKSHOPS IN THE WORLD





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