RECONDITIONING, REBUILDING, AND UPGRADING SERVICES
FOR LONG ROLLING MILLS

How can you get more out of your existing equipment? Which innovations make sense to maintain a competitive performance? Our reconditioning, rebuilding, and upgrade services provide attractive answers to these questions – for your entire portfolio of mill equipment.

WHY CHOOSE US

Primetals Technologies has the know-how and experience to recondition and rebuild your equipment back to original mill specifications. As a leading equipment manufacturer, we know the details and design basis of all your long rolling mill equipment. In addition to repairing equipment, we can investigate possible root causes of a failure, if required.

With our upgrade services, you benefit from the latest design technologies for improving overall equipment and mill performance. We provide targeted upgrades, based on our years of experience designing, installing, and maintaining a wide range of long rolling mill types for all kinds of finished products.

100% RESTORED PREFORMANCE
ZERO WORRY

PRIMETALS TECHNOLOGIES

primetals.com

RECONDITIONING METHODS

There are basically two areas of reconditioning. The first involves repairing or restoring a part to mill specifications. This is commonly done with roll pinions and roll housings that have worn due to normal rolling mill use. We use a few different methods to repair equipment (welding, plating, plasma spraying, and/or machining) and can work with you to provide the best solution for your equipment.

The second area is rebuilding. This is like a “tune up” for your mill. From normal usage, the bearings and seals will require replacement in all mechanical equipment. Primetals Technologies is very familiar with these assemblies and has the knowledge not only to rebuild the equipment but to diagnose any problems that might cause mechanical failures. We provide detailed inspection and diagnostic reports for all rebuilds. An added advantage of using Primetals Technologies is that once the problem is found, we can fix it on the spot instead of waiting until the next shutdown.

OUR PROCESS

After arriving at our facility, your equipment is visually inspected, carefully disassembled, and cleaned. Once disassembled, we perform dimensional inspections and, when required, Non-Destructive Testing (NDT). This process identifies any potential issues, including problems such as cracks concealed under the surface of the material.

Based on actual results, a determination is made to replace components or conduct repairs, including:

- Housing bore repairs
- Shaft journal repairs
- Mounting feet repairs
- Component repairs (cartridges and retainers)

Once your equipment is reassembled, it undergoes a final round of inspections including:

- Gear contact
- Backlash
- Runout
- Axial and radial bearing lift checks
- Full speed test (laying heads)

RECONDITIONING AVAILABLE ON THE FOLLOWING

As the OEM provider of high speed equipment for long rolling mills, no one is more suited to recondition your critical equipment. Our services cover the following equipment:

- Pinch rolls
- Laying heads
- Roll housings
- Bevel gear housings
- Roll units
- 3Hls
- Pre Finishing Mills (PFM)

UPGRADE SERVICES ON THE FOLLOWING

All equipment is assessed in advance and a study performed to identify potential upgrade opportunities. Based on our advanced knowledge, we are often able to implement the latest technologies in the following areas:

- Laying heads
- Reducing/Sizing Mills (RSM)
- No-Twist® Mills (NTM)
- Lubrication systems
- Shears
- Conversions from grease to air/oil lubrication

MAIN BENEFITS

- Quick turnaround to meet all mill schedule requirements
- Maximum accuracy of roll housing rebuilds
- Minimized shutdown times through flexible work cycle times and maintenance staff training during site work
- Maximized performance of critical machinery
- Environmentally friendly alternative reduces the amount of landfill material generated from scrapping old components

Primetals Technologies USA LLC
A joint venture of Mitsubishi Heavy Industries and partners

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