



AUTOMATED CHOCKING SOLUTIONS ENHANCING EFFICIENCY, SAFETY, AND PERFORMANCE

Automated chocking stations are specifically designed to simplify and expedite the process of removing and installing bearings and chocks onto steel mill rolls in flat, section, and rod rolling mills.

YOUR CHALLENGE

Chocking mill rolls can be a time-consuming and resource-intensive task, not to mention the inherent risks associated with traditional chocking methods. Using an overhead crane to support the chock during chock and bearing replacement is dangerous, costly, and sometimes inefficient due to crane availability. Relying solely on chains and straps can damage internal components and increase the likelihood of accidents. Further, when moving chocks to the roll, an overhead crane only supports the chock in the vertical direction. Horizontal adjustments require manual, hands-on assistance.

OUR SOLUTION

Our automated chocking stations are tailor-made to suit your specific mill rolls. The benefits include faster component changeovers in the roll shop and significantly improved safety compared to traditional chocking methods.

We design chocking stations for various roll packages within the mill stands, such as back-up, intermediate, and work rolls. We offer both fixed and mobile configurations. These chocking stations can be operated using your mill's hydraulics or with self-contained hydraulic power units, which we can provide.

Additionally, our roll cradles have been designed with the ability to rotate the roll during chocking. This reduces scratching on both the inner race and rollers within the bearings.

**DECREASE
CHOCKING TIME**
**INCREASE
TEAM SAFETY**

BACK-UP ROLL CHOCKING STATIONS

These chocking stations include two side extraction cars featuring a center cradle with a rotational option. Each end of the roll center line is equipped with a hydraulic power unit and control station. The extraction cars move vertically and in/ out of each roll end. These designs can be installed on custom foundations or the mill floor.



Back-up roll chocking station

INTERMEDIATE AND WORK ROLL CHOCKING STATIONS

The stationary center rack comprises two side extraction cars equipped with individual hydraulic power units. Side extraction platforms travel along the center cradle, enabling the efficient exchange of chocks. Our chocking station allows for precise positioning of the chock to internal bearing clearances during operation.



Work roll chocking station

HYDRAULIC POWER UNITS

A complete heavy-duty plug-and-go hydraulic power unit can be supplied for the chocking station. Fully wired with interlocks, this power unit can support all station functions. The station includes directional control valves, e-stops, etc., which assist in maneuvering heavy-duty hydraulic cylinders and motors for assembly/disassembly positioning.

CHOCK TILTERS

Our custom-designed chock tilters are versatile devices used for the inspection, assembly, positioning, and mounting/ dismounting of chocks. The objective is to rotate a chock removed from the roll by 90 degrees using a tilting device for bearing maintenance.

ROLL TRANSFER CARS

Our roll transfer cars ensure smooth and safe movement of heavy-duty assemblies and mill rolls and are designed for safe and efficient transfer of chock assemblies between areas in the mill, including the roll shop.



Roll transfer car

MAIN BENEFITS

- Increase roll shop efficiency: Automated chocking stations significantly speed up the chocking process, resulting in faster component changeovers and improved overall efficiency.
- Improve employee safety: Our advanced safety features lead to improved working conditions, which help you protect your most valuable assets—your employees—from potential risks and accidents.
- Maximize mill utilization: By reducing the need for an overhead crane to support chocking and dechocking, you can free up the crane for other important tasks.
- Extend bearing life: Our chocking stations allow precise, level positioning of the chocks to internal bearing clearances during installation, helping to extend the lifespan of the bearings.
- Custom-designed solutions: We design our advanced chocking solutions specifically for your equipment, ensuring they meet your exact requirements. Likewise, we provide tailor-made solutions for your specific roll shop needs.

Primetals Technologies
USA LLC
A Group Company of Mitsubishi Heavy
Industries

93 Gilmore Dr. | Sutton, MA 01590 | USA
primetals.com

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