

Millmate Roll Force System

Health check



Get the competitive edge through the Millmate Roll Force System health check.

Measurement made easy.

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ABB Ability™
– Comprehensive
health check service
for high roll force
measurement accuracy
performance.

Overview

Millmate Roll Force System Health check is a detailed and comprehensive inspection and status evaluation of a roll force measurement installation.

It is a key service to ensure and verify the actual roll force measurement accuracy to avoid future interruptions in the production. All findings are documented in a roll force system health check report and the recommendations can be used to secure measurement accuracy and availability, mill performance and yield.

Features

Check of:

- Millmate Roll Force System Basics
- Millmate Controller
 - Errors, warnings, alarms and info check
 - Software version
- Matching unit(s)
- Mechanical installation
- Load cell insulation resistances
- Recommended spares

Benefits

- Verifies the functionality of the roll force system and identifies shortcomings which might affect the measuring accuracy of the system
- Secure roll force measurement performance availability, reliability and production yield
- Minimizes risk of failures
- Reduces mill maintenance costs

Service





Roll force load cell

Service duration

Typically 1 day on-site to inspect the roll force measurement installation, evaluate and give recommendations if further actions are needed.

During at least 4 hours, load cells and pressure plates need to be accessible outside the mill stand for inspection and testing. This can be done during a planned maintenance stop, or by the customer exchanging to spare load cells and spare pressure plates in the mill stand in advance.

Additional time for travel, preparation, analysis and reporting is needed.

Note: Free access to the mechanical parts and the mounting surfaces in the actual mechanical installation is essential for achieving the expected goals with the Health Check during the site visit. The accessible parts required for different load cell types and positions in the mill stand are listed below.

Installations with rectangular load cells below the lower back up roll or above the upper back up roll:

Accessible parts: Mounting surfaces in the mill stand, the sledges if present, the rockers, the pressure plates closest to the load cells and intermediate mating plates if present.

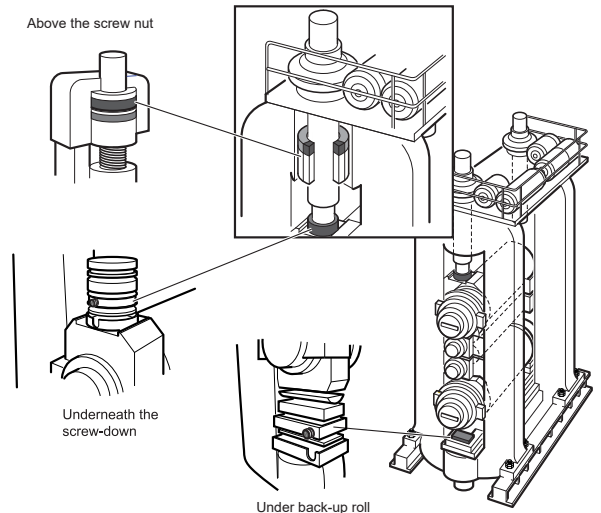
Installations with circular load cells under the screw-down or hydraulic cylinder:

Accessible parts: Mounting surfaces above the upper back up roll bearing chuck, plain or tapered thrust roller bearings, pressure plates closest to the load cells and other intermediate mating plates if present.

Installations with annular load cells above the screw-down inside the mill stand:

Accessible parts: Mounting surfaces of the screw-down nut, plain or tapered thrust roller bearings, pressure plates closest to the load cells.

The parts and mounting surfaces mentioned above need to be accessible before the start of the work or otherwise the investigation of them need to be planned for in advance so that it can be performed later during the site visit.



Positioning of load cell

To find your local ABB contact, visit:
abb.com/contacts

For more information visit:
abb.com/measurement

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