

AS-240 GRINDERMON™

REAL-TIME ROLL GRINDER QUALITY MONITORING SYSTEM

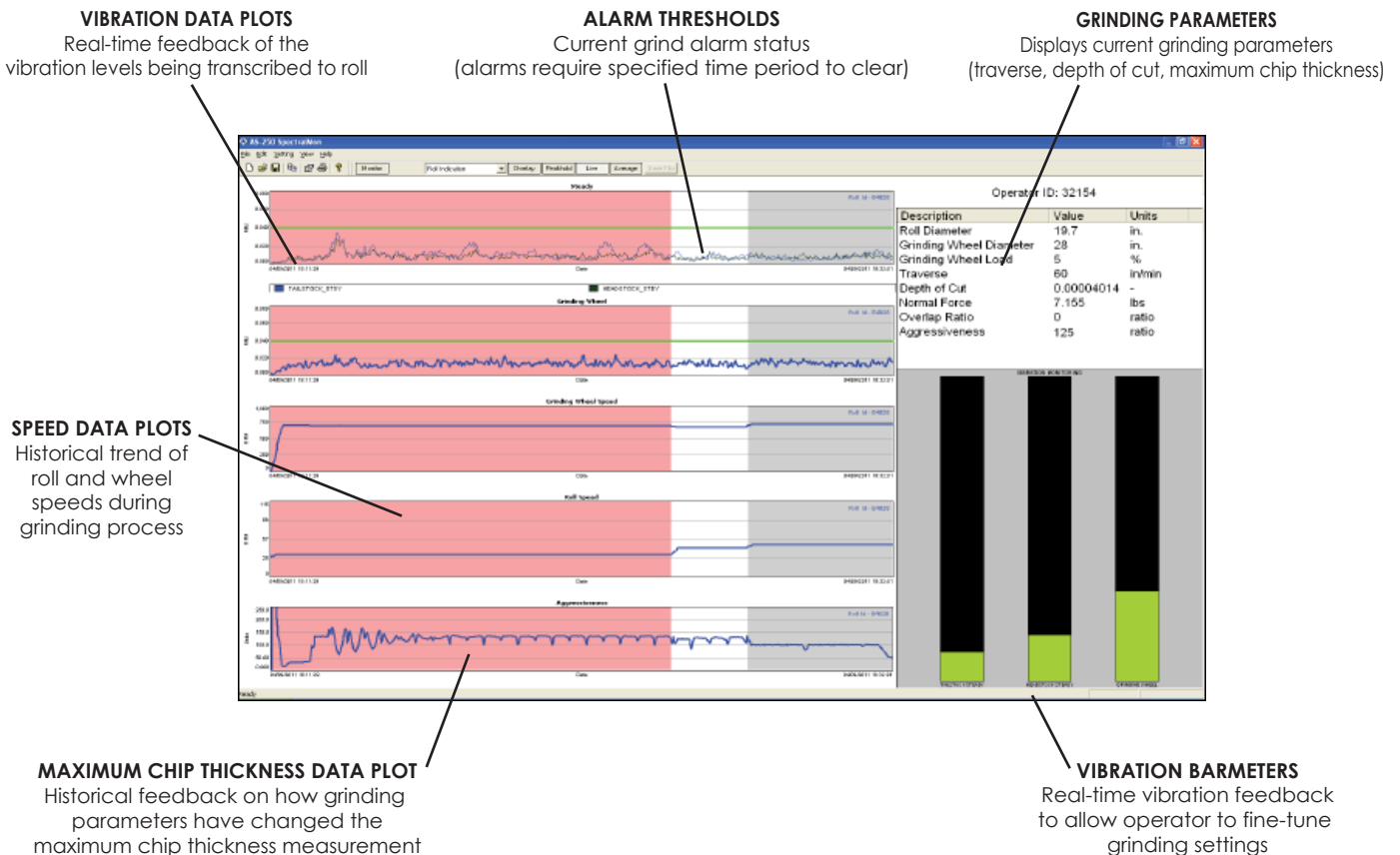
For steel and aluminum mills, it is important to monitor the roll grinding process for quality control. The work rolls touch every surface of product that passes through a mill. Therefore, any pattern and lead lines on these rolls is imparted on the strip surface. Grinding chatter can lead to both 3rd and 5th octave mill chatter, which increases mill downtime and shortens the roll life.

The AS-240 GrinderMon system provides real-time feedback for the operator and managers to see the vibration signature being transcribed onto the rolls. Alarm limits can be set to control the acceptable vibration values during the different parts of the grinding cycles.

The system interfaces with the grinding controls to get the roll parameters (diameters, depth of cut) and operating parameters (wheel load, traverse, normal force, overlap ratio, and aggressiveness). The data of the grinding process is automatically saved by the roll id and the summary page is printed for quality control documentation.

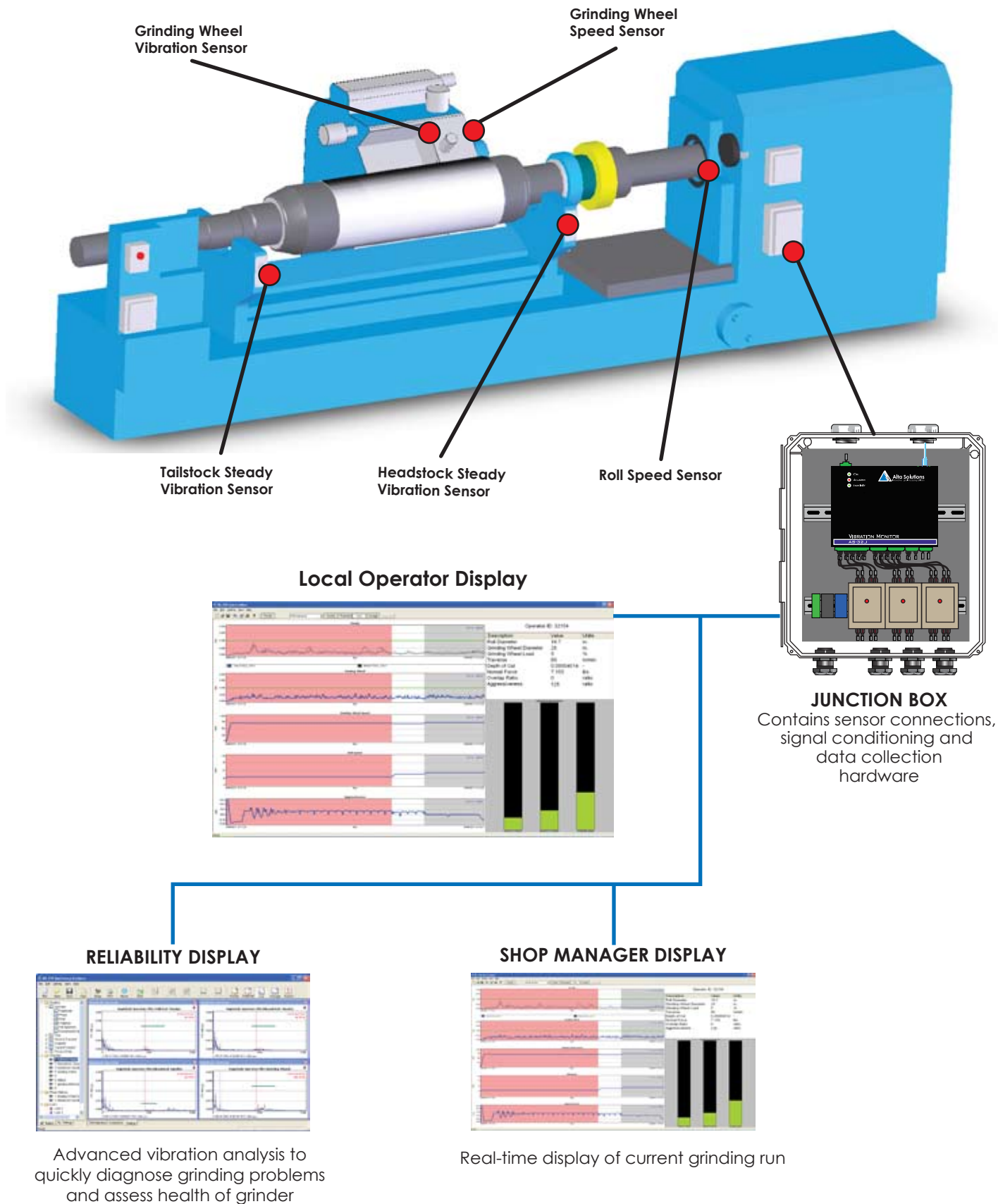
BENEFITS OF MONITORING THE GRINDING PROCESS

- Prevent mill chatter and speed reductions
- Improve product quality and finish
- Avoid backup roll printing
- Reduce gage variation



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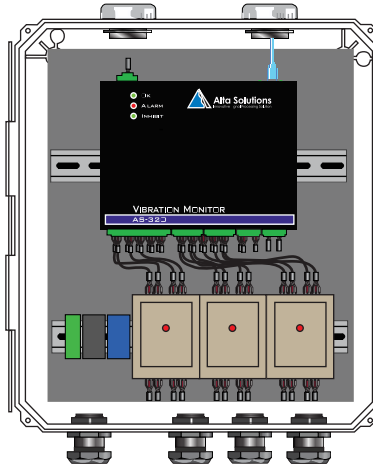
ROLL GRINDER QUALITY SYSTEM



VIBRATION AND SPEED SENSORS
Headstock and Tailstock Vibration,
Grinding Wheel Vibration,
Roll Speed, Wheel Speed



INTERFACES TO GRINDER CONTROLS
Traverse, Depth of Cut,
Overlap Ratio, Wheel Diameter,
Roll Diameter



AS-320 VIBRATION MONITOR



OPERATOR DISPLAY
Real-time feedback of
grind quality for complete
grinding process



REMOTE DISPLAYS
Allows shop manager and reliability staff
to manage and provide feedback
to grinding process

DATABASE AND DATA ARCHIVAL
Store complete grinding process
for future troubleshooting and
for quality improvement

AS-320 VIBRATION MONITOR



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