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.

BENEFITS OF MONITORING THE GRINDING PROCESS

-Prevent mill chatter and speed reductions

-Improve product quality and finish

-Avoid backup roll printing

-Reduce gage variation

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.



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Traverse, Depth of Cut, Overlap Ratio, Wheel Diameter, Roll Diameter



for future troubleshooting and

for quality improvement

to grinding process

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