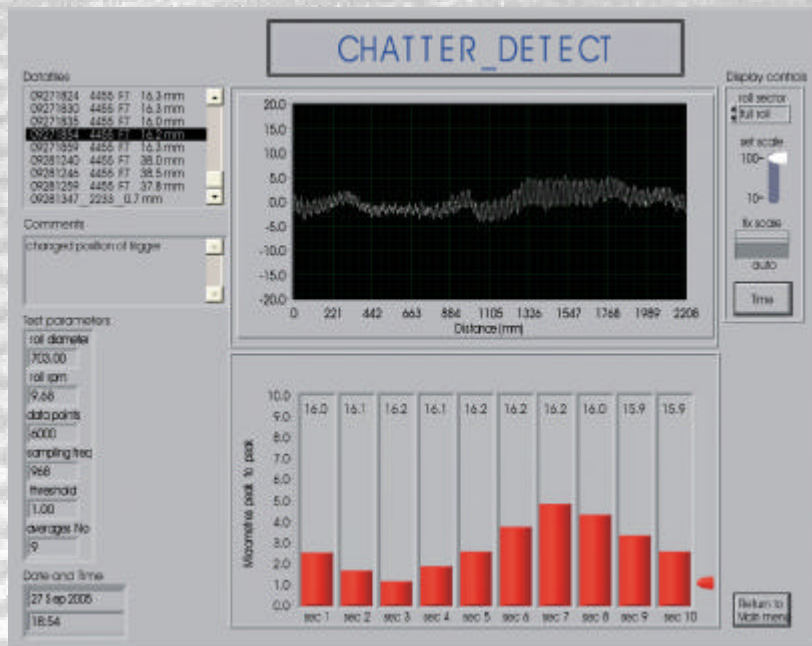


CHATTER_DETECT

SYSTEM FOR DETECTING CHATTER MARKS IN THE SURFACE OF GROUND ROLLS



CHATTER_DETECT is a portable and robust measurement system that has been designed for use as a post-process inspection system on a roll grinding machine. It is capable of detecting the type of marks that are so small they are virtually invisible to the naked eye, yet are big enough to mark the strip if the roll is used in the mill.



Features:

High sensitivity, non-contact displacement sensor used to measure the surface of rolls on completion of grinding.

Sensor mounted to the wheelhead in a specially designed, easy-to-set-up bracket to ensure maximum ease of use — no fiddly adjustments needed.

Roll position sensor and synchronous averaging maximise signal-to-noise ratio, ensuring **marks with a depth as small as 0.05 µm can be reliably detected.**

Adjustable alarm threshold enables system to be used on rolls with a wide range of surface roughnesses.

Each sector of the roll surface can be analysed for most commonly occurring mark pitch — useful when an irregular marking pattern produced by multiple vibration sources is present.

All measurement data saved along with roll identification providing a permanent record of the surface topography of the roll — useful when troubleshooting strip chatter problems.

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