

-Steel product quality control-

Rolling process operation management and quality control

Data Acquisition System RA2800A/RA2300A are useful for quality control in continuous casting.

- In steel rolling processes, a mill's vibration, displacement, load and control signals are monitored and recorded over a long duration.
- Print control through contact signals, comment print control from host system, recording line synchronization, etc. that have been recorded by line synchronization recorders are implemented by an exclusive I/F box and the Omniace RA2800A/RA2300A.
- The Omniace can be connected to the I/F of the existing recorder.

Image of automatic recording of rolling (hot rolling / cold rolling) process

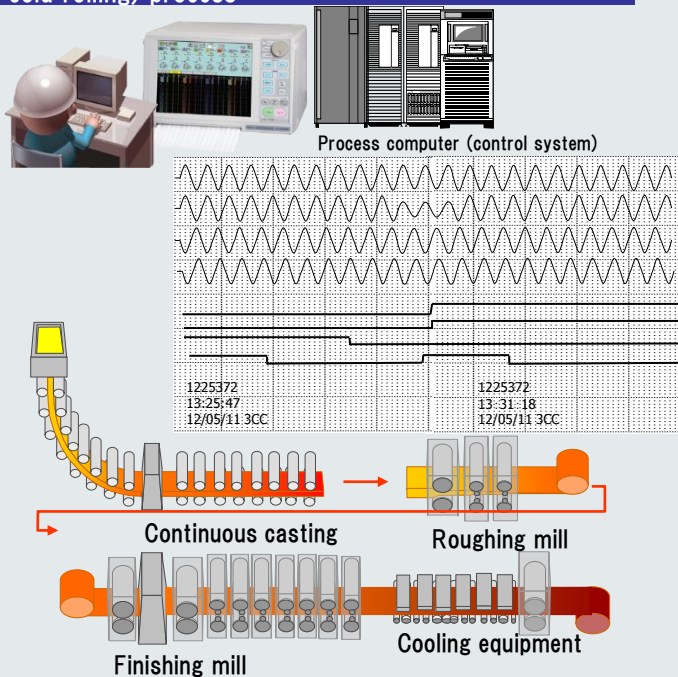
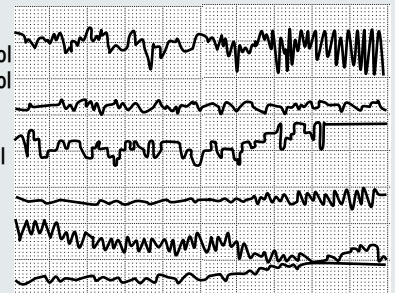
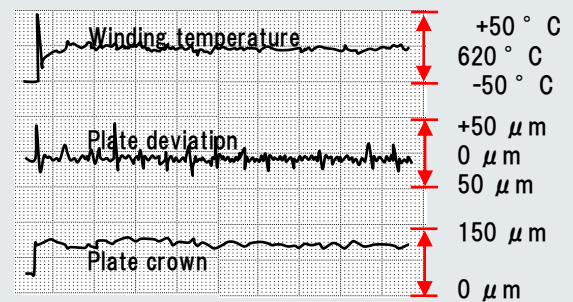


Image of mill roll gap control adjustment record

AGC: Automatic gage control
APC: Automatic position control
ALC: Automatic levering control
MMC: Mill modulus control
REC: Roll eccentricity control
CPC: Constant pressure control
Q.OPEN: Quick open



Quality inspection record image



Automatic recording quality in continuous rolling process

In a continuous hot rolling mill (hot strip mill), slag having a thickness of 250 mm heated over 1000 ° C is stretched to a bar thickness of 25 to 50 mm by a roughing mill and further to a coil of 1.2 mm to 19 mm thickness by a finishing mill by continuously rolling.

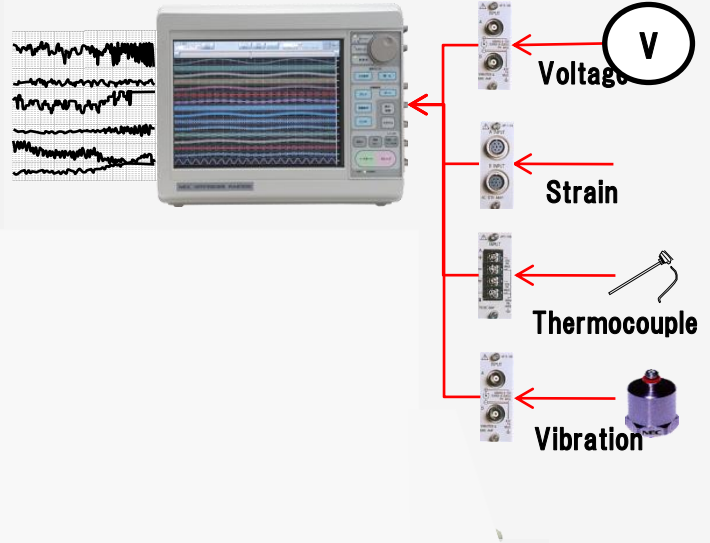
Rolling hard materials like iron results in crown where the ends of the plate becomes thinner than the center part. In order to ensure a final thickness difference of 30 μ m or less, it is necessary to manage winding temperature, plate thickness, displacement of plate crown and so on. By automatically recording control signals from the rolling equipment as well as various physical signal waveforms, the Omniace contributes to the early detection and resolution of problems.

Digital Oscilloscope Recorder

RA2000A Series Omniace III

Did you know?

The RA2300A/RA2800A can simultaneously measure voltage, current, control timing, vibration, rotation, pressure and thermocouples directly from sensors.



Recorders and older models

Rectiholy
8K20



Omniace family
RT3200 RT2100



Rectigraph
8K40



RT3600



RT3424

