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HiWIDTH®

STEREOSCOPIC WIDTH GAUGE

HIGH QUALITY INSTRUMENTATION FOR METALS INDUSTRY



DANIELI AUTOMATION

Know-How in Process Control

HiWIDTH®

STEREOSCOPIC WIDTH GAUGE

HiWIDTH is a contactless sensor designed to continuously measure the width and the centreline deviation of hot and cold flat products.

Stereoscopic principles ensure correct width measurement irrespective of how the strip or plate is laying on or above the roll table.

PRINCIPLE OF OPERATION

The HiWIDTH gauge is based on the precise detection of the product side edges and on proprietary calculation algorithms capable of determining their position in geometrical free space.

Laser light sources and stereoscopic technology make HiWIDTH completely independent of both strip temperature and position (i.e. thickness, lift, tilt or twist) as it “bumps” along the roller table.

The compact fully integrated system architecture ensures all measured data are available directly in the field, without the need for separate enclosures or process cubicles installed in remote control rooms.

FEATURES

- › Built-in long life laser light source
- › Width, width deviation & centerline deviation measurements
- › Flexible thermal expansion management
- › Standard industrial interfaces

ADVANTAGES

- › High measurement accuracy and repeatability in both hot and cold conditions
- › No physical contact with rolled product
- › No moving parts
- › Very high reliability
- › Immunity from product vibration and position changes
- › Minimal maintenance requirements
- › No backlight required
- › Very large operating temperature range
- › Easy to interface with plant automation & quality management system

APPLICATIONS

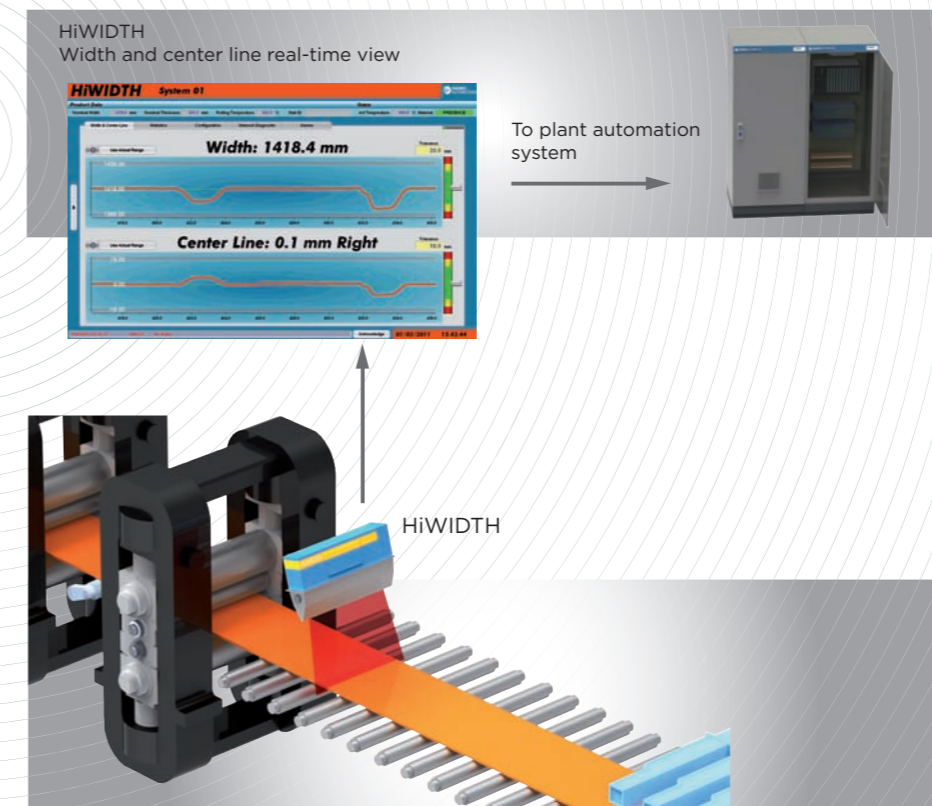
- › Hot & Cold Strip Mills
- › Crop Shears
- › Down Coilers
- › Plate Mills



BENEFITS

- › Faster adjustment of rolling mill
- › Improved product tolerances
- › Significant reduction of scrap
- › 100% Quality Certification of product
- › Low operational costs
- › Fast return on investment

SYSTEM CONFIGURATION



TECHNICAL SPECIFICATIONS

- › **Product width**
600 to 5,000 mm ⁽¹⁾ (23.6 to 197 inch)
⁽¹⁾ according to gauge model
 - › **Product thickness**
3 to 300 mm ⁽¹⁾ (0.11 to 11.8 inch)
⁽¹⁾ according to gauge model
 - › **Measurement accuracy**
Down to ± 0.4 mm (16 mils) at 2σ
 - › **Measurement resolution**
< 0.2 mm (80 mil)
 - › **Temperature of rolled product**
 $\leq 1,200^{\circ}\text{C}$ (2,190 $^{\circ}\text{F}$)
 - › **Measurement outputs**
MODBUS and TCP/IP on Ethernet
- Analog and digital I/O at field level