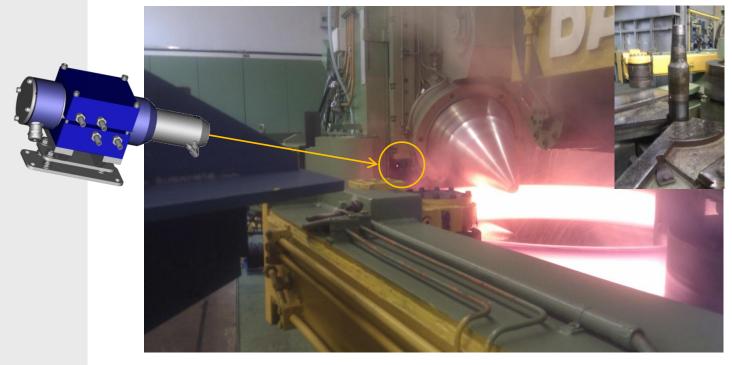


Experts for contactless measuring technologies



OUTSTANDING COMPACT LONGE RANGE DISTANCE SENSOR DESIGNED EXCLUSIVLY FOR RING ROLLING





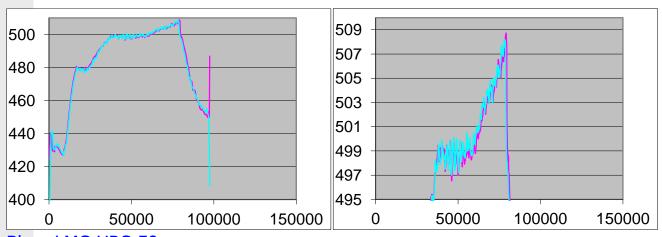




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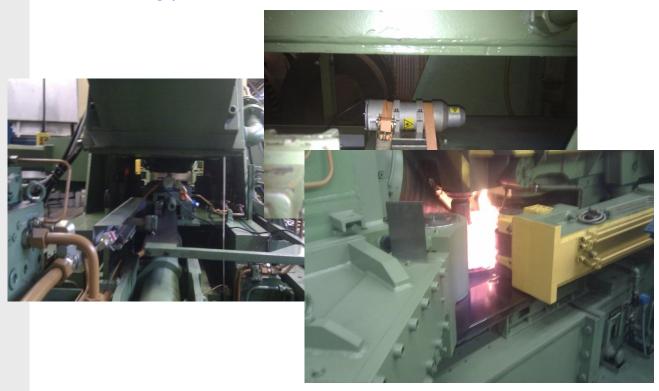


Measuring Roll — LMC-HRS-50 Comparisson made by SMS MEER



Blue: LMC-HRS-50 Purple: Measuring Roll

Result: Outstanding performance of the LMC-HRS-50



Due to the compact design, it's also easily possible to install 2 or more gages for shape or profile measurement of the rings





LMC-HRS-50 Laser Distance Measuring Device up to 1400°C hot steel ring targets

Precise – Robust – Reflectorless

- Made for target temperature up to 1400°C hot steel
- Measures distances within millimetre accuracy
- Detects movements
- Superb filtering functions
- 100 Hz Output Rate

The LMC—HRS-50 is an opto-electronic distance measuring module specially designed for ring rolling application.

The module operates on basis of non-contact comparative phase measurement with amplitude modulation. The Laser diode (cw operation) has a divergence of 0.6 mrad for measurement with pinpoint accuracy.

Measuring Output Rate up to 100Hz. Filtering functions like measurement window, error and application specific value check.

The measuring range on steel surfaces can reach up to 20m (or more depending on target reflectivity).

The sensor alignment can be easily achieved with the help of the red pilot laser and the included 3-point, spring damped bracket which also improves the vibration protection of the gage.

The standard includes also a water cooling jacket (depending on the conditions it can be used also as air cooling jacket) as well as an air-purged front tube.



Specifications:

Measuring range: *1 0.2 to 20 m

Measuring accuracy: *2 \pm 2 mm

Repeatability: $\leq \pm$ 0,5 mm

Measuring resolution: Depends on scale factor

(1 mm / SF 1; 0,01mm / SF 100)

Measurement rate: Depending on type

max. 100 Hz

Laser divergence: 0.6 mrad

Laser classification: \leq 5 mW nach IEC 825-1,

Laser Class 3R (650 nm)

Interface: Serial: RS232 or RS 422,

Analogue Output 4...20 mA,

Optional:

EtherNet, WLan, ProfiBus, Bluetooth

Switching output: 1 digital

Temperatur range: -10 °C bis + 60 °C

(-40° with heating, 120°C with water

cooling)

Power supply: 10 - 30 VDC; <2 W bei 24 VDC

Bracket: Three-point bracket spring cushioned

Dimensions: $(260 \times 100 \times 150) \text{ mm (L x B x H)}$

Weight: ca. 4,3 kg
Protection class: IP 66
MTTF 40.000 h

*1 dependent on target reflectivity, stray light

influences and atmospheric conditions

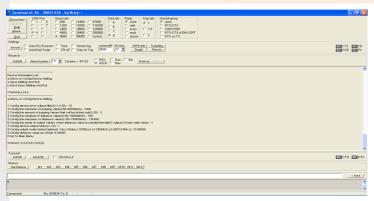
statistical spread 95%

EASY setup via Terminal Program



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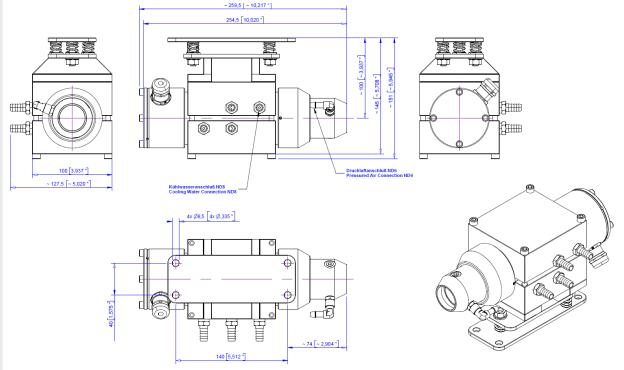




Options:

- Exchange Window
- Double long front tube for better dust and spray material protection
- Water cooling for temp. up to +120°C
- Heat shield
- Air Purge
- Heating for Temperatures down to -40 °C
- Plug versions
- ProfiBus, EtherNet, WLAN
- Custom made outputs, interfaces and housings

Dimenssions:



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