

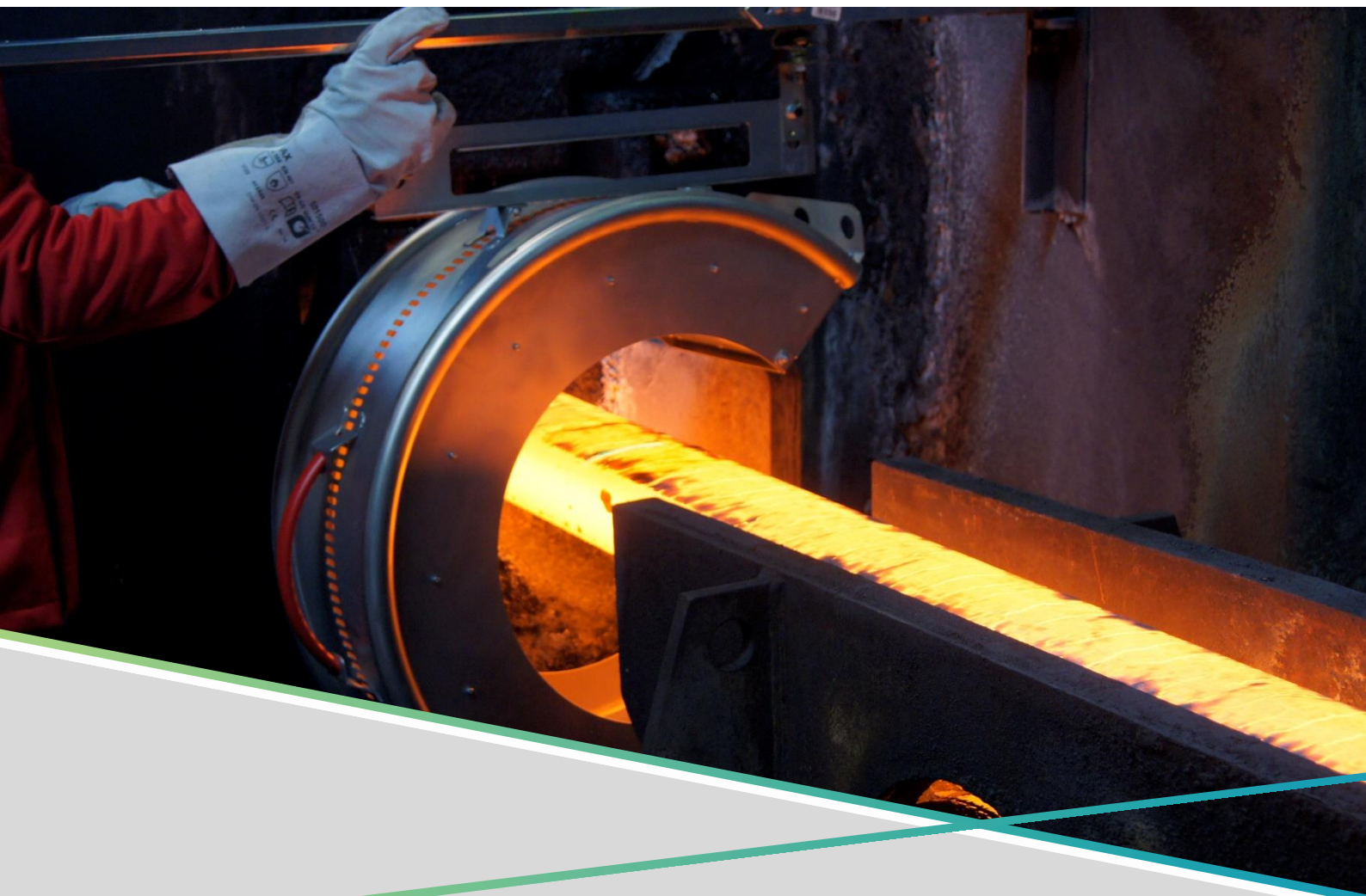


HEXAGON

NEXT**SENSE**

CALIPRI RC220

Data Sheet



Doc. ID: CR2BD01
Rev. No: 01
Date: 2022-06-01

CALIPRI
RC220

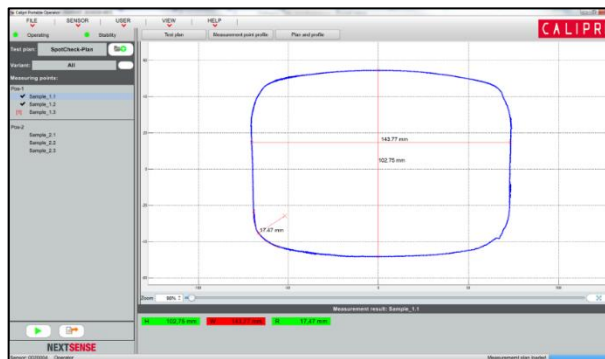
1 APPLICATION

CALIPRI RC220 is a contactless portable profile measurement device that both considerably speeds up and simplifies work processes in the steel mill. It provides reliable measurement data between passes on hot profiles - efficiently and accurately. Since it is a portable measuring system, you can place the device at any point in the rolling mill. The C-frame of the housing allows CALIPRI RC220 to be used during rolling operation.

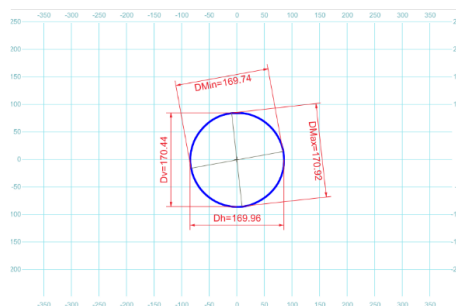
The measurement device is powered by a rechargeable battery and uses WLAN to communicate with the supplied tablet PC, meaning that no cabled connections are required. This is a key advantage as it ensures working conditions on the hot rolled material are safe: You can leave the hot area while the measurements are being taken. CALIPRI RC220 resists the high temperatures for the time of your spot measurement and is water protected. If the conditions for the device become too harsh, an acoustic and visual alarm is triggered.

When taking measurements with CALIPRI RC220, the measurement object is scanned from all sides and angles. This enables even the most complex sections to be analysed. The profile is shown immediately on the tablet PC and deviations can be analysed.

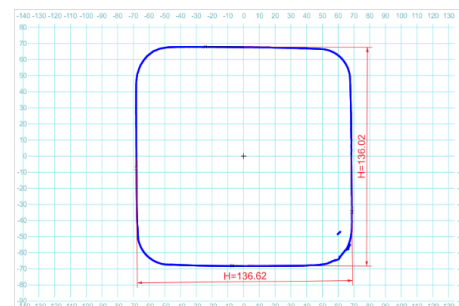
Software



Measurement application




Measurement method "Round RC"



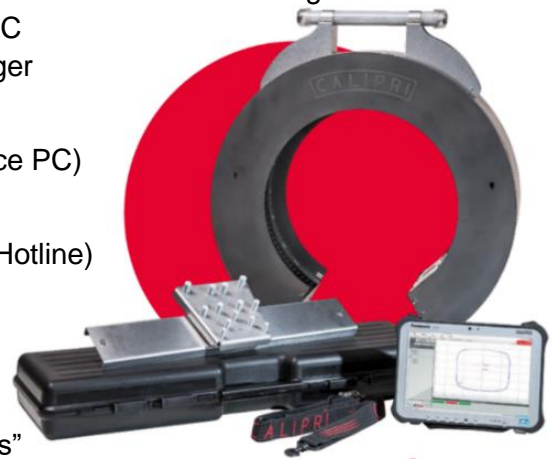
Measurement method "Rectangle RC"

2 TECHNICAL DATA

Accuracy	< 0.2 mm < 0.008 inch	
Sensor	Dimension (WxHxD): Weight (incl. battery): Measurement object size: Round: Rectangular (max.): Laser class:	630 x 710 x 215 mm 25 x 28 x 8.5 in 8.550 g 18.85 lb Ø 170 mm 6.7 in 120 x 120 4.7 x 4.7 in (140 x 95 mm 5.5 x 3.7 in) 2M
Tablet PC	Display: Operation: Weight: Battery: Dimensions: Protection class:	10.1-inch WUXGA Touch (incl. Stylus) 1300 g 46 oz Lithium-Ion, battery charge approx. 50 measurements (exchangeable & rechargeable) 270 x 188 x 38 mm 10.6 x 7.4 x 1.5 inch IP65
Data collection	Technology: Tilt & roll correction: Process time:	Laser light section Automatic (patented CALIPRI principle) Ø approx. 10 seconds
Data transfer	Sensor → Tablet PC: Data export:	WLAN (2462 MHz) WLAN (802.11 a/b/g/n), Ethernet (10/100/1000 Mbit), Bluetooth (V4.0 + EDR 1)
Export formats	Reports: Data export:	PDF, Direct connection to printer CSV or DXF (point cloud of profile)
Application	For the measurement between passes and on both – cold and hot - profiles in steel industry. It can be used to configure the rolling stand, for random sample measurement or as a development tool. Highly suitable profiles: <div style="text-align: center;">  </div> Errors may occur when measuring extremely flat profiles, profiles with indentations or sharp-edged profiles. Please contact us for further information.	
Product ID	CR2BD01	

3 SCOPE OF SUPPLY & SERVICES

- Sensor unit
 - Torus with laser light section sensor
 - 3 rechargeable batteries & 1 battery charger
 - Calibration standard
- Portable computer unit (Tablet PC) including:
 - Measurement software “CALIPRI Portable Operator” with
 - Measurement module CMM9001 - “Universal Profile”
 - Measurement feature CMF9121 ”ProfileAnalyzer”
 - Measurement plan creation software “CALIPRI Manager”
 - Carrying strap for the tablet PC
 - Rechargeable battery & charger
- High quality industrial case
- License for CALIPRI Analyzer (office PC)
- User manual
- 3 months support for free (E-mail, Hotline)



Add-ons

- Measurement module “RC Methods”
 - Predefined evaluation methods for round, rectangle and other profile types
 - Product ID: CMM9002
- Measurement feature “ProfileCompare”
 - Immediate comparison of a measured profile to a CAD model or a previously measured profile
 - Product ID: CMF9120
- Service packages
 - Product ID: CSM1101/C22 (Standard)
 - Product ID: CSM1102/C22 (Carefree – including insurance against accidental damages)
- On-site training
 - Product ID: CSM2011/STE1
- Additional license for CALIPRI Analyzer
 - Product ID: CSW1001

4 MEASUREMENT PROCESS



Measuring with sensor



Visualization on tablet PC



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