



HEXAGON

NEXT**SENSE**

**CALIPRI C42**

Data Sheet

RollShop Bundle



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**CALIPRI**

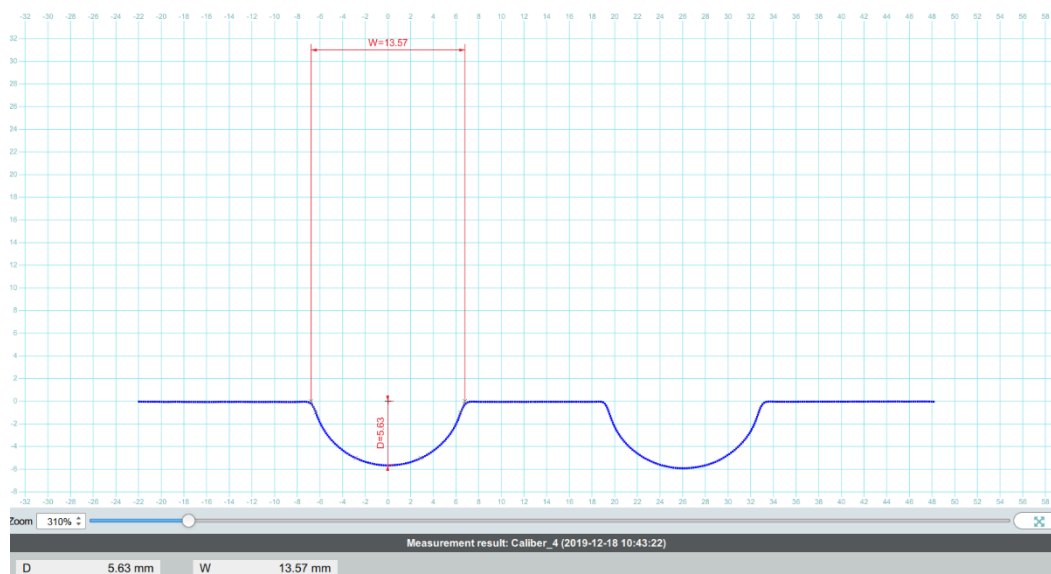


# 1 APPLICATION

The **CALIPRI C42 RollShop Bundle** is designed for the fast and highly accurate measurement of roll dimensional properties in the steel mill. The bundle features two measurement methods:

- The method **Roll Caliber** enables the measurement of depth and width of multiple grooves in a roll caliber. Up to ten grooves can be measured with one single hand-guided measurement scan. Additionally, the feature **ProfileCompare** can be used to examine the wear of the grooves using a graphical overlay of the groove curve before and after extensive usage. Regular measurement of the roll calibers is crucial in order to assure a constant long product quality and optimize the roll lifetime.
- The method **Roll Gap** is used for the measurement of the minimum gap between two flat roll sections. This parameter is important in order to produce long rolled products or metal sheets with specified thickness.

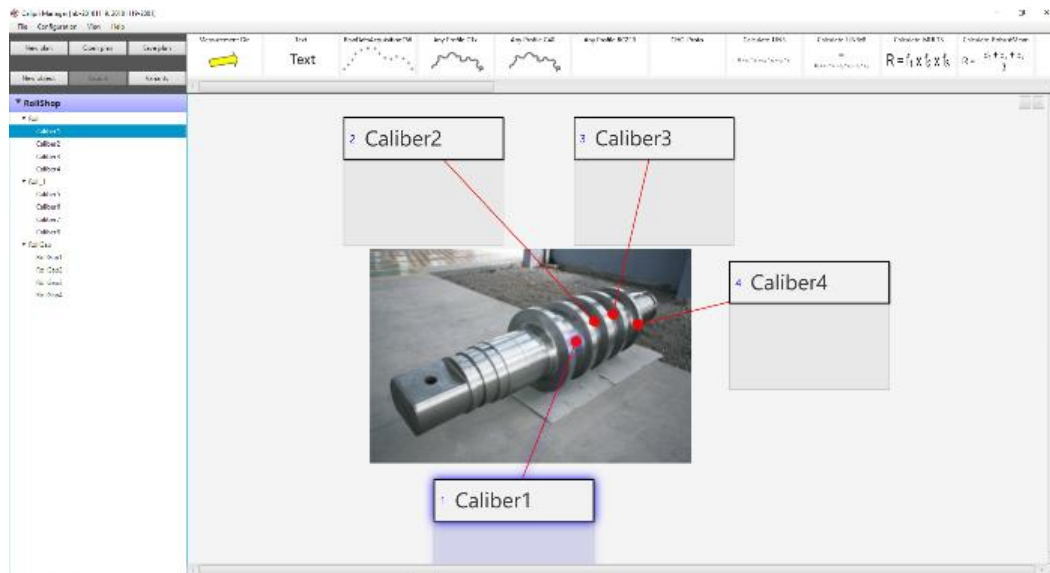
The measurement with the CALIPRI C42 handheld sensor is carried out easy and fast. Due to the patented CALIPRI principle the results are extremely reliable: roll and tilt corrections are done by the device automatically in order to generate highly precise, reproduceable and user-independent results.



**Caliber profile**

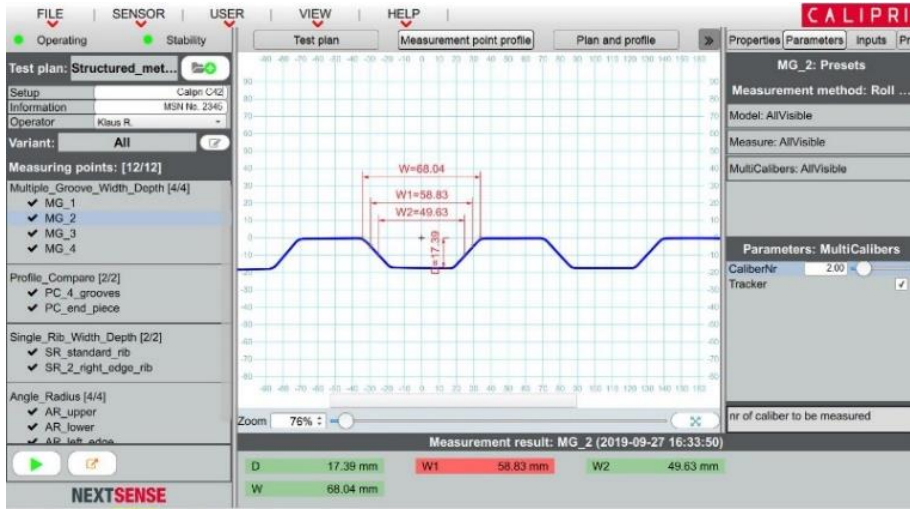
## 2 SOFTWARE

Measurement plans can be created by drag & drop in the software **CALIPRI Manager**. The user defines the position of the measurement points, the measurement method and the tolerance ranges of the results. Afterwards, the profile is recorded by a swiveling movement of the CALIPRI sensor. The measurement software **CALIPRI Portable Operator** then automatically calculates the dimensional results which are displayed both on the tablet PC and on the sensor itself with color coded tolerance classes. Additionally, the captured profile can be compared with reference data by using the feature **ProfileCompare**. The measurement results can be transferred easily via Ethernet, Bluetooth, USB or wireless - allowing print as well as export of the results and profile curves in a variety of common file formats.

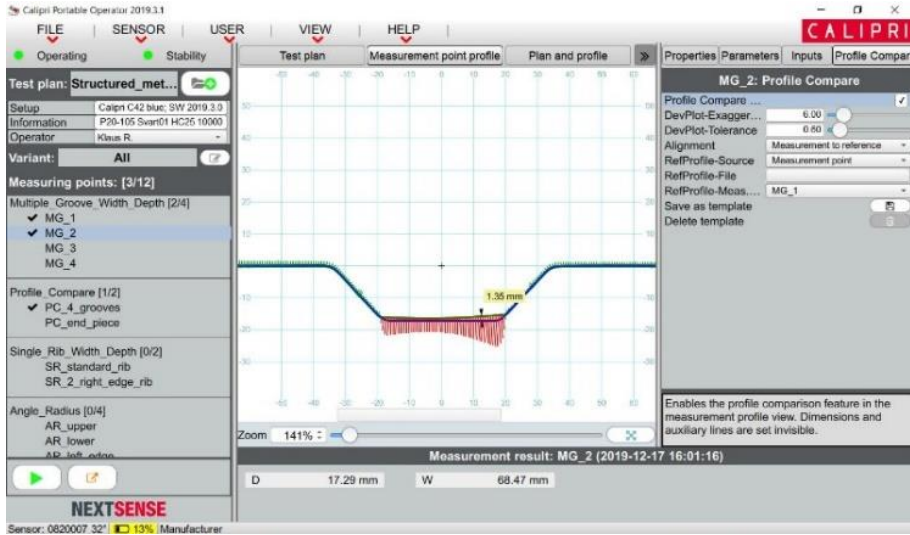


**CALIPRI Manager**

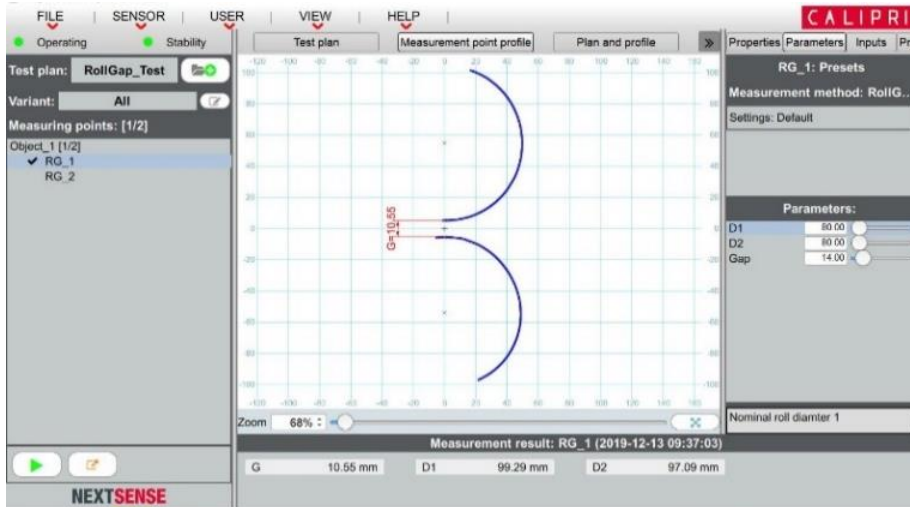
Method: Roll Caliber



Feature: ProfileCompare



Method: Roll Gap



CALIPRI Portable Operator



### 3 TECHNICAL DATA

<b>Measurement</b>	Measurement time: Measurement field:	2 – 4 s (up to 10 s for multi-groove mode) 150 x 130 mm   6 x 5 in
<b>Sensor CALIPRI C42</b>	Display: Housing: Battery: Weight: Dimensions: Laser:	2.4-inch FSTN LCD Ruggedized aluminium, IP 54 Lithium-Ion, rechargeable, > 4h/battery 590 g   20.8 oz 64 x 63 x 164 mm   2.6 x 2.5 x 6.5 in 660 nm, class 2M
<b>Data collection</b>	Technology: Tilt & roll correction:	Laser light section Automatic (pat. CALIPRI principle)
<b>Tablet PC</b>	Display: Housing: Battery: Weight: Dimensions: Operating system:	10.1-inch WUXGA touch screen Ruggedized aluminium, IP 65 Lithium-Ion, rechargeable, ~5h/battery 1.300 g   46 oz 270 x 188 x 38 mm   10.6 x 7.4 x 1.5 in Microsoft Windows® 10
<b>Data transfer</b>	Sensor → Tablet PC: Data export:	WLAN (2462 MHz) WLAN (802.11 a/b/g/n), Ethernet, Bluetooth (V4.0 + EDR 1), USB
<b>Export formats</b>	Reports: Data export - results: Data export - profiles:	PDF, direct connection to printer XML, CSV CSV, DXF (point cloud)



## 4 SCOPE OF SUPPLY & SERVICES

### CALIPRI RollShop Bundle

- CALIPRI C42 basic system
  - Sensor, 2 batteries (quickly exchangeable & rechargeable)
  - Battery charging station
  - Tablet PC with measurement software CALIPRI Portable Operator
  - Certified self-test and adjusting device (calibration standard)
  - Hard-shell case, tablet carrying strap, sensor belt clip, user manual
- Measurement plan creation software “CALIPRI Manager”
- Software license “CMM9003 - RollShop” measurement module
  - Measurement method for multi groove caliber measurement
  - Measurement method for roll gaps
- Software license for the feature “CMF9120 - ProfileCompare”
  - Automatic comparison of measured profile with previous measurement or CAD data
- Software license for the feature “CMF9121 – ProfileAnalyzer”
- Service Package Standard (valid 1 year after order confirmation)

### Add-ons

- Software license measurement module “Universal Profile”
  - Measurement method to measure any contour
  - Product ID: CMM9001
- Software license “CALIPRI Analyzer”
  - Software tool for analysis of CALIPRI measurement profiles
  - Product ID: CSW1001
- Software license “CALIPRI Manager” for desktop PC
  - Software tool to create measurement plans on your desktop PC
  - Product ID: CSW1008
- On-site training for users and administrators
  - Product ID: CSM2011/STE2





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