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EFFICIENCY

Contact Zone Measuring System
NIP CON SMART

Smart Measuring System for Setting Roller Compression





50 % Time Savings
Compared to the stripe method

App Usability
Intuitive & easy

Clean Adjustment
Without ink and waste



Contact Zone Measuring System
NIP CON SMART

Working Principle

Both sensors are positioned between hard/soft paired rollers near the adjustable roller bearings. The contact zone width measured values are digitally displayed in real-time. A full-colour visualization and the measured value computation to absolute NIP widths simplify the adjustment. The extremely lightweight sensors allow a single person to conduct the measurement. The measurement sequence, the set-point values and the tolerances can be defined with the PC software according to the customer's requirements.

Scan here for product infos.

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PITSID develops, produces and sells measuring systems, supported by the Sächsisches Institut für die Druckindustrie. The measuring systems are used for quality control and to increase efficiency during adjustment and maintenance operations.

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Innovative Measuring Systems Made in Germany

Measurement System for NIP Width Adjustments

When two rollers (hard-soft) are pressed against each other, a contact zone is created. This contact zone is derived from the roll width and the "NIP width". The NIP width can be used as a quality benchmark for the exact adjustment of the contact roller. This adjustment procedure can be carried out considerably faster and more efficiently with the NIP CON SMART than with conventional methods. In the case of printing presses, this is possible without the use of inks and the associated time and effort required for cleaning.

According to the working principle, the NIP width is measured, the actual NIP width excluding the inserted sensors is calculated and then displayed. This speeds up the exact adjustment of the roller positions. The operator is guided through the customer-specific procedure with a graphical visualization on the touch panel. Set-point values, tolerances and measured values are processed, displayed and saved in both table and graphical form. The data can be output as a PDF or stored digitally.
The Contact Zone Measuring System is also available under the name "NIP CON SMART compact" together with a smartphone. The compact design shows all the relevant values for the measurement directly on the device.

Technical Data

Measurement range
0 ... 35 mm

Resolution
0.1 mm

Application range
Roller diameter (hard): Any size
Roller diameter (soft): ≤ 300 mm
Rubber hardness: Approx. 20 ... 60 Shore A
Rubber layer thickness: Approx. 5 ... 20 mm

Dimensions
Hand-held device: 150 mm x 80 mm x 40 mm
Tablet: 260 mm x 175 mm x 15 mm
Sensor: 140 mm x 22 mm x 3 mm

Hand-held device power supply
Lithium ion/polymer 1-cell battery 3.7 V/1260 mAh

Scope of delivery
Hand-held device, two sensors, USB cable, carrying case, operation manual, installation software, tablet (10.1") with protective case