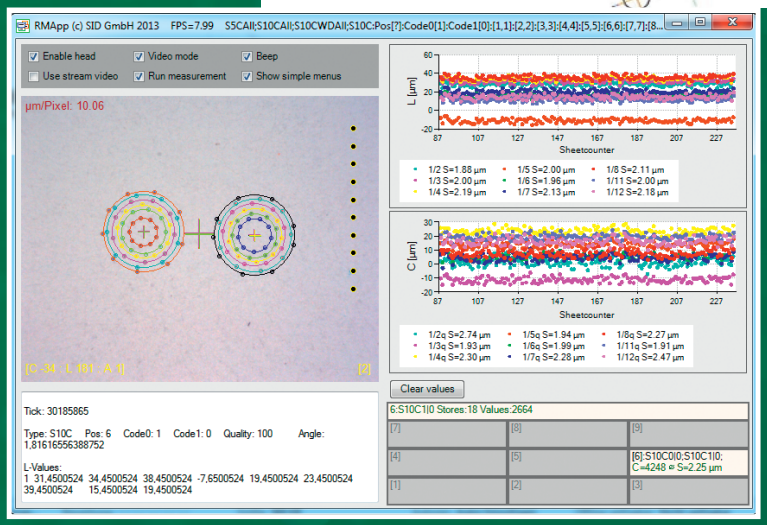
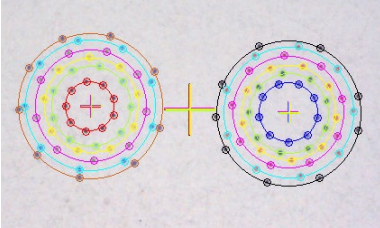
Register Measuring Process – Register Measuring Head

RMK

Highly precise register measurement with practically invisible micro-marks made for sheet-fed offset requirements

Polygraphische innovative Technik Leipzig





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Working Principle

Register measuring process with coded micro-marks for inline or offline use in offset printing presses. The separate register measuring head RMK is available for external measurements. The measuring mark encoding contains information about each separate printing unit, the measuring position on the sheet, the front and back side of the sheet as well as other specific information.

Technical Data

Register measuring process

- Practically invisible micro-marks, dot diameter of 80 µm
- Mark size: for up to 5 colours: 3 x 3 mm (27 encodings)
  for up to 10 colours: 3 x 7 mm (54 encodings)
- It is possible to position at any place on the printed sheet, even inside of small print control bars
- Automatic assignment of the measuring position on the sheet through variable encoding
- Encoding for front and back side in the mark itself
- Large measurement range of ± 2 mm
- Angle-independent measurement
- Any measurement order when multiple register marks are on the sheet

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Register measuring head RMK

- Handheld measuring head optimised for the register measuring process
- Use as a video magnifier possible
- Measuring head is activated when lifted up (separate sensor)
- Fully automatic measurement after positioning the measuring head on a measuring mark
- Optical and/or acoustic feedback after the measurement
- Measuring head field of view of 10.5 x 13 mm allows a positioning tolerance of ± 3–4 mm
- Two buttons used for additional operational functions
- USB-2 connection to already available PC with the register measuring process software

PITSID

PITSID develops systems for the graphic arts industry together with the Sächsisches Institut für die Druckindustrie.

The current product assortment comprises devices for measuring and testing print registration, contact pressure, traction force, packing height, gap widths, UV curing, IPA concentrations, book block strength and also printing plate positioning in plate bending devices and roller adjustments.

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