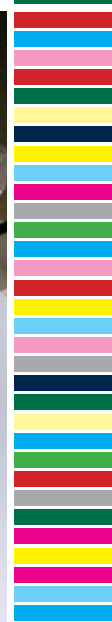
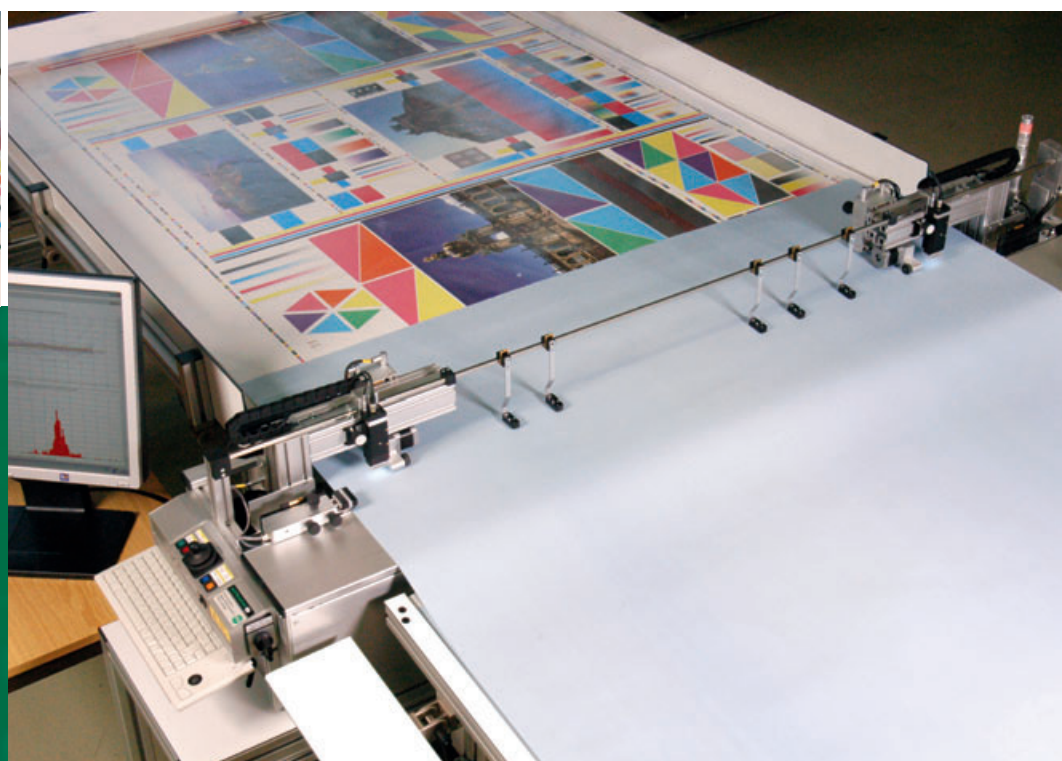


# Register Measuring Robot AUTOLUCHS

The AUTOLUCHS is the most effective tool for the adjustment of offset presses, the error diagnosis and the machine assessment and inspection. Due to its high degree of automation the AUTOLUCHS is very fast, efficient and flexible. It allows measurements of sheets up to a size of 152 x 205 cm.

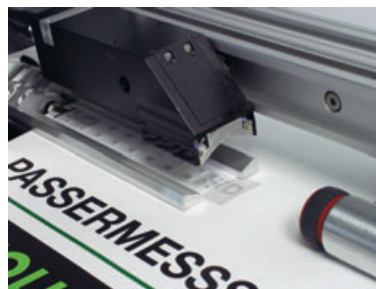


**Polygraphische innovative  
Technik Leipzig**



# Register Measuring Robot

## AUTOLUCHS



### Working principle

The AUTOLUCHS measures the transfer, feeding and machine register and as an option also the position and perfecting register. A variety of user-defined measuring protocols is automatically produced.

A measuring operation is finished within a time of 1 second. The automatic evaluation is effected while the measuring head is already positioned anew.



Together with SID Leipzig (Sächsisches Institut für die Druckindustrie GmbH) PITSID develops measuring and testing devices for the graphic arts industry.

Our present range of products comprises devices for the measurement and test of pressure and gap, register, UV-ink curing, IPA alcohol concentration, packing height and plate punching.

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### Technical data

#### Purpose of application: automated measurement

- measurement of transfer and feeding register in face printing on standard LUCHS measuring elements
- simultaneous measurement of the perfecting and position register in face and back printing in longitudinal and lateral direction on a special measuring element

#### Printed sheets

Offset paper, size from 360 x 360 mm up to 1,520 x 2,050 mm, (larger size possible, depending on the upgrading level of the device)

#### Positions of the measuring elements

For transfer and feeding register:

any position, but outside the transport track

For position register (measurement of printed image to the paper edge):

- 12mm (bled-off) up to 2 mm for measurement across the paper edge
- 12mm (bled-off) up to 100 mm from print start and from tail edge of print

For perfecting register (for measurement along the paper edge):

- measuring element edges must „face each other“ at a distance of  $\pm 5$  mm<sup>1</sup>
- 12 mm (bled-off) left side up to 12 mm (bled-off) right side for measurement across the paper edge
- 12 mm (bled-off) up to 100 mm from print start and from tail edge of print for measurement along the paper edge

#### Measuring time

< 1 s for each measuring variant; positioning time dependent on grade of paper and travel path of the measuring head

#### Measuring uncertainty

- for standard register measurement:  $< \pm 5$   $\mu$ m for relative measuring values<sup>2</sup>,  $< \pm 2$   $\mu$ m with good print quality under compliance with the measuring instructions
- for the measurement of perfecting register:  $\leq \pm 30$   $\mu$ m for relative measuring values<sup>2</sup>, under compliance with the measuring instructions
- for measurement of position register (position of printed image relative to the paper edge): no data, because dependent on defects, the form and the quality of the trimmed edges

#### Dimensions; weight

2150 x 420 x 520 mm (W x H x D); without tables: app. 100 kg

#### Voltage supply

100-240 VAC / 50/60 Hz, 110-230 VDC; connections: 1 USB 2.0, 1 Ethernet RJ 45, 1 interface-, 1 mains connection

#### Power consumption < 250 W

<sup>1</sup> In special cases with suitably assembled devices and reduced measuring uncertainty the measuring elements in printing direction need not be mounted „facing each other“.

<sup>2</sup> Relative measuring values: All measuring values which in the sense of register measurement have a direct relation to successive measurements and have all been measured with one and the same measuring system i. e. the measuring results may include further absolute measuring errors (system-specific, dependent on material, temperature or process) which can be corrected with suitable methods.