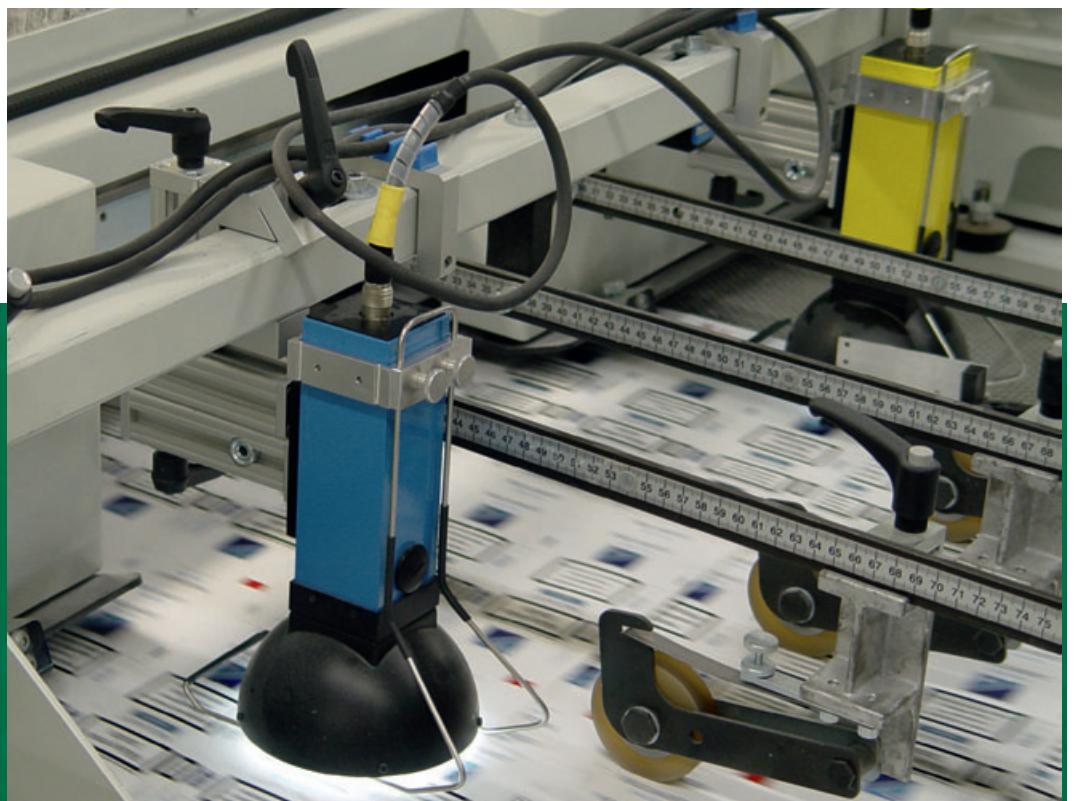
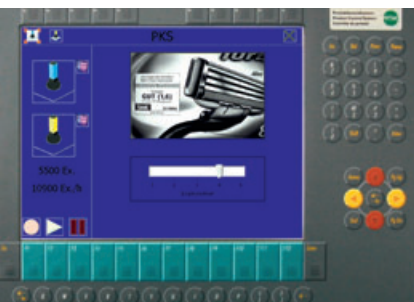


Product Control System PKS



Recognition of imperfect products at two points directly in the printed image to prevent their further processing. The device makes visual control and sorting-out obsolete. Additional measuring targets are not necessary.

**Polygraphische innovative
Technik Leipzig**



Produkt-Kontrollsystem

PKS



Working principle

The measuring heads are positioned at a suitable place in the feeding area by means of a holding fixture, which allows adjustment of up to 250 mm in three degrees of freedom.

The captured video images are analysed with high-speed mathematical pattern recognition algorithms and imperfect sheets trigger an electrical signal.

In dependence on the colour of the background different illumination variants of the measuring heads enable metal blockings to be recognised.



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

Control routines

The printed image is checked on defects on the basis of a good sheet read in before. The smallest measurable position deviation amounts to 0.1 mm.

The following features are checked

- metal blockings (silver and gold),
- line and matrix codes (without decoding),
- blind sheets,
- areas of print disturbances (scumming, smearing, missing solids, stains, scratches).

Operation

The device is operated from a control panel (colour display, keyboard and touch screen). The measuring results are indicated in a live image. Errors are marked with colours. Job-related inputs can be made by the user. A test protocol can be output.

Signals

As input signals the PKS waits for a "sheet present" signal (the sheet is completely aligned on the feeder) and a machine cycle (the machine must be running). Detecting an imperfect sheet, the machine produces an electrical signal. This signal can optionally be used to stop the feeder or the machine or to trigger an error signal on the machine. The measuring operation is recorded in a protocol and can be stored and/or printed.

Measuring heads:

The product can simultaneously be checked with one or (optionally) two measuring heads at two different points. Each measuring head can be used for glossy materials like blockings, with the application of the heads in this case depending on the colour of the background of the sheet.

Interfaces:

1 interface PKS-machine, max. 2 camera interfaces, 1 screen interface, 1 keyboard interface, 1 printer interface, 1 power connection.