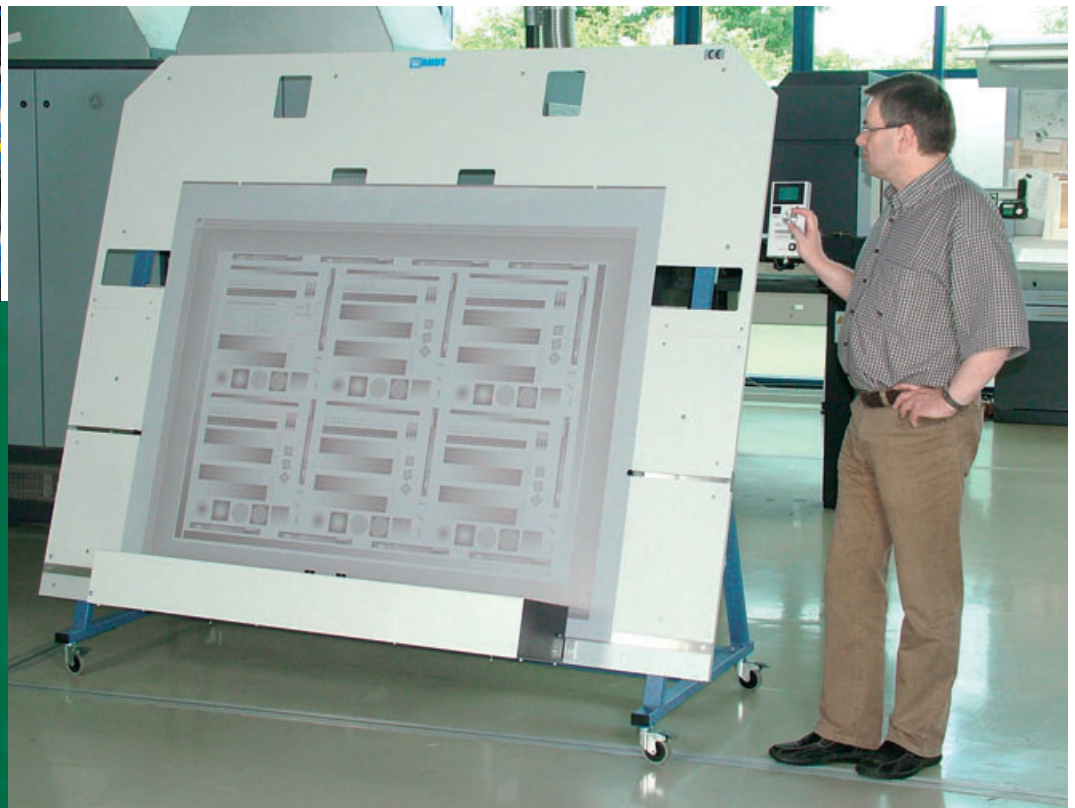


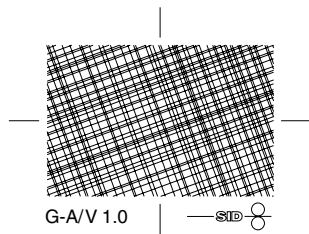
Automatic Precision Plate Punch APP



Punching takes place in relation to the image thus enabling punches with an accuracy of $\pm 2 \mu\text{m}$. Press proofing is considerably shortened and waste is reduced.

Polygraphische innovative
Technik Leipzig





Automatic Precision Plate Punch APP

Working principle

The measuring targets copied into the plate are evaluated with an industrial PC and the actual position of the image is determined.

A three-axis positioning drive puts the plate iteratively into its optimum punching position. After having reached the punching position the plate is punched.

Regardless of dimensional instabilities the image is in an identical position on all plates of a colour set thus ruling out register fluctuations.



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

Measuring principle

- The position of the printed image is determined with two video cameras
- Evaluation of the measuring targets with an accuracy of 0.1 µm

Printing plates

- size 1: = plate size from 770 x 1,030 mm up to 1,145 x 1,430 mm
- size 2: = plate size from 1,245 x 1,630 mm up to 1,560 x 2,060 mm
- size 2K: = plate size from 770 x 1,030 mm up to 1,560 x 2,060 mm

Positioning accuracy ± 2 µm

Punching after 10 - 30 s

Punching pattern

- small: punching tool distance 780 mm
- large: punching tool distance 1,200 mm

Measuring target is delivered digitalised together with the Automatic Plate Punch and must be copied into the plate (size: 10 x 15 mm)

Components

Positioning crossbeam, electronics switch cabinet, operating unit, image sensors, size recognition sensors, operating system MS-WinXp, software package for position measurement installed on an industrial PC, manual, mains cable

Dimensions; weight

depending on the size of the delivered punch, app. 200 kg

Voltage supply 230 V/50 Hz

Compressed air supply 6 bar

Power input < 250 VA

Operating conditions

Operating temperature: +5 °C up to +30 °C
Storage temperature: -10 °C up to +50 °C
Air humidity: 30 % up to 85 % non-condensing
Impact load during operation: < 5 G; during transportation: ≤ 25 G
Operating vibrations: max. 0.7 G (with 5 ... 200 Hz)

Measuring conditions

Operating temperature: +20 °C up to +25 °C
Air humidity: 40 % up to 70 %