

FAG VPS

VideoPlateScanner

BingoScan

The plate reader FAG BingoScan allows to analyse the pictures and to check all types of plates used in the offset field.

Why investing in a plate reader? In order to reduce the production costs by saving setup time on your offset machine.

Overview

- Works with many types of web and sheet fed offset printing presses
- Aluminium printing plates of any size and color coating can be scanned
- 2 CCD cameras with high-resolution electronic image scanning produces the highest measuring accuracy
- data communication with nearly all ink fountain and machine control systems
- Different papers, inks and printing plate types are compensated automatically to calculate pre-setting values
- Color touch screen for operation and display of the ink key profile
- Adjustable scanning area
- Measuring accuracy independent of plate surface structure
- Direct or data carrier information transfer
- Three sizes are available:

MF (medium format, max. plate size 800 x 1090)

LF (large format, max. plate size 1300 x 1700)

XXL (XX-large format, max. plate size 1650x2050)

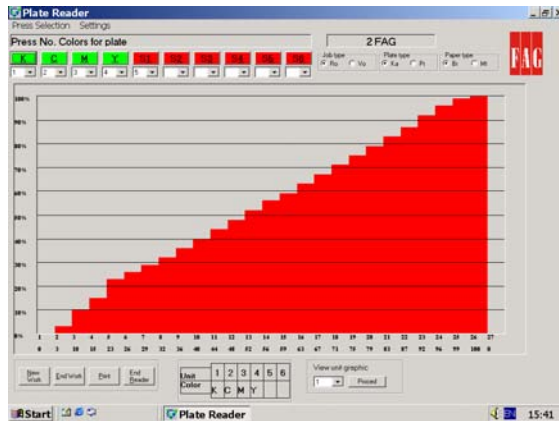


Data Transfer

The system can communicate with several types of ink fountain and machine control systems.

Various types of data carriers may be used for data transfer. Direct online transfer is possible with some machines.

Measuring



The image is captured by a high resolution CCD Camera. The ink key profile of the currently used printing plate is calculated within a few seconds using picture process algorithms.

On demand, the determined data may be either transferred directly to the machine control or be converted into pre-setting values of the ink key and ductor positions.

Ink key profile calculations take into consideration paper quality, ink type, and individual print tower conversion curves.

In some very preticular cases, depending on the interior's division it might be that sunrays fall in a direct angle of incidence onto the scanner and thus eventually influence the measuring results. For these circumstances we suggest the purchase of the optional shutter that is to be used during very sunny instants.

Camera

Highest measuring accuracy and shortest measuring time are ensured by using two high-resolution CCD cameras.

The surface structure of the printing plate does not influence the measurement in any way.

Self learning functions (optional)

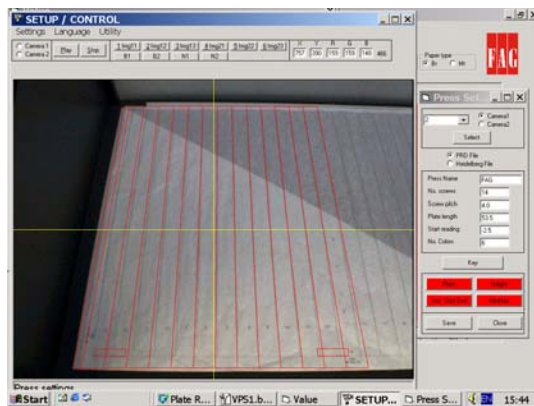
An automatic self-optimisation of the pre-setting accuracy is possible. The conversion curves, which are used for the calculation of the ink key profile, are continuously updated by reading back the data of the jobs finished. Thus, the individual characteristic of any ink fountain is stored leading to an increased presenting accuracy for future jobs.

Setup of the System



The program is designed to configure up to 10 different types of machines. With the aid of a special function the operator can insert the corresponding parameters. In order to obtain operational results, the profiles can be personalised with the help of transformation functions called "Conversion Curves".

How to maintain the system



There is no necessity to execute long and painful operations in order to keep the operational function of the system. The only required task is to set the control light about 2-3 times per month. This job will take about 1min.

TECHNICAL FEATURES

Electric supply: 240 V – 2A

Video analysis based on 2 digital video cameras, Watec, WAT-202D with optic, Computer 6mm, 1:1.2

Lighting: 1 x 30W neon 5500 Kelvin for model MF
2 x 30W neon 5500 Kelvin for model LF
2 x 36W neon 5500 Kelvin for model XXL

Operating system: Windows 2000

Included: PC PentiumX, with input for 2 video impulse signals, one net-board 10-100 BT
Optional: Job card reader MRO, Micro card reader Heidelberg, shutter

One colour LCD touch-screen 19"

