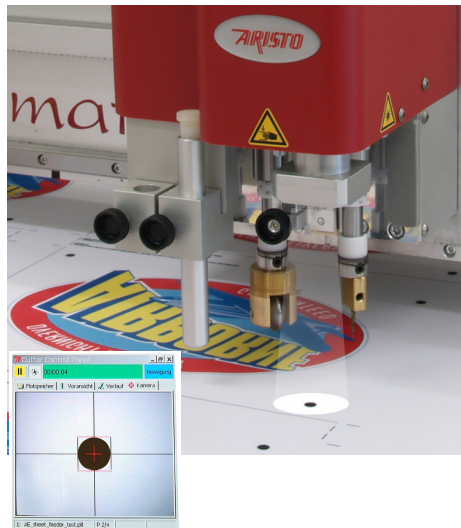# AutomaticEye System *- An intelligent camera system for accurate assignment and scaling of prints*

AutomaticEye

The intelligent camera system with integrated color camera enables quick and exact cutting of printed patterns, even of large areas with complex cutting contours. Overlarge patterns are user-defined or automatically divided by the system.

Cutting data from a plot file is allocated to the printed pattern on the cutting table of the ARISTOMAT by using freely placeable reference marks (fiducials) printed on the pattern.

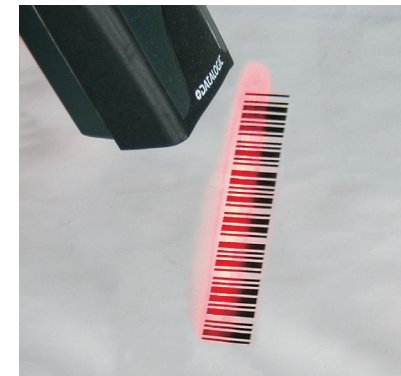The fiducials are read into the system one after the other.

Live image on the PC monitors shows placing and adjustment of the fiducials and/or in the simulation mode the cutting outlines.

With print distortion, material stretching and shrinking or if material is askew, the system calculates the compensation values within seconds and applies the correction and readout of the cutting data - all fully automatically.
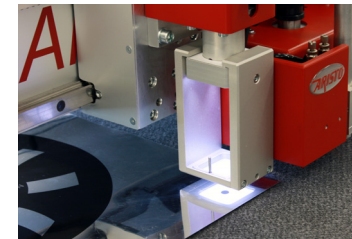
The camera system as an individual module can combinated with many ARISTO tools, e.g. with the HF Routing Device. in combination with the MultiHead it is integrated in the tool head.

Mobile BarcodeReader

The automatic procedure can be supplemented by a mobile barcode reader. It can identify the plot file by means of a barcode printed on the pattern and automatically allocates to the corresponding cutting data.

✓ design printing pattern including fiducials and barcode with graphics software

✓ define cutting contour

✓ save finished plot file as HPGL-file in a *CutterControlPanel* hot folder

✓ place printed material on the plotter table and scan the barcode with the barcode reader

✓ the identified plot data are automatically transferred to the *CutterControlPanel*

Technical specifications AutomaticEye System

Camera system	CCD color camera with BNC connector, adjustable lighting with white LEDs, simple handling of the camera focussing, Frame Grabber card, fully integrated control, learning software to identify fiducials automatically
Monitor	Live image on the PC monitor shows placing and adjustment of the fiducials and/or in the simulation mode the cutting outlines
Software	Control software for measurement, correction and processing of printed originals
Data format	HPGL standard compatible
Fiducial	Freely placable circular fiducials
Search area	Limited by display area of camera
Compensation	Of offset, skew, stretch, material growth and shrinkage, etc.
System requirements	ARISTO software *CutterControlPanel*, USB 2.0 connection at the Plotter PC

Technical specifications BarcodeReader

Scanner	wireless hand scanner with base station
Range	approx. 10 m (39.4 in)
Radio frequency	433,92 MHz / 910 MHz
Barcodes read	Code 39, Code 128
System requirements	ARISTO software *CutterControlPanel*, USB 2.0 connection at the Plotter PC

Options

✓ Reflection suppression, especial for reflection film[1]

✓ Additional shutter for filtering of reflections[1]

1 Only for AutomaticEye Stand-alone

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