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Corrugated GmbH

Data Sheet ELSCAN-CORR OCS 1

Computer

Power supply	100 bis 240 V AC/400 W (± 10 %)
Rated frequency	50 bis 60 Hz
Operating system	LINUX
Ambient temperature	+5°C bis +40°C
Weight	6,6 kg
Protection class	IP 30
Filter on the air inlet	ja
Dimensions (L x W x H)	450 x 330 x 115 mm

24“ Monitor

Power supply	100 - 240 V AC / 120 W (± 10%)
Rated frequency	50 - 60 Hz
Resolution	1920 x 1080 FHD
Connection	DVI

Camera

Type	OC 1001
Digital zoom	2 x CMOS Chip
Resolution	2 x 2596 x 1944 (5 MPixel)
Color system	Bayer Matrix
Field of view	min. 25 x 23 mm, max. 360 x 270 mm
Web speed	max. 600 m/min
Ambient temperature	+5°C bis +45°C
Weight	0,96 kg
Protection class	IP 65
Dimensions (Length, Diameter)	79 mm, 100 mm

ELCorrVision®

Corrugated GmbH

Technical Description
ELSCAN-CORR OCS 1
Web monitoring system

ELSCAN-CORR OCS 1

The OCS 1 has been developed with specific emphasis for harsh environments. Its IP 65 protection class guarantees the highest level of reliability. The air purge attachment keeps the camera free of dust. The camera with two matrix chips, integrated xenon flash and double lens is extremely compact. It has been specifically developed for image monitoring in applications where space is limited for vision systems.

The ELSCAN monitor displays high resolution captured images immediately, with a speed up to 5 images/sec. The exact positions of the longitudinal and cross cut are captured and displayed on the monitor. Any deviations of the cut can be recognized directly on the first sheet – and not only by the machine operator at the down stacker of the corrugator.

Furthermore the ELSCAN software offers various capabilities to work with the images, for example a measuring tool where two lines can be positioned horizontally and vertically on the screen using a mouse. The displayed distances can immediately be used to determine and monitor the cut to mark accuracy and quality.

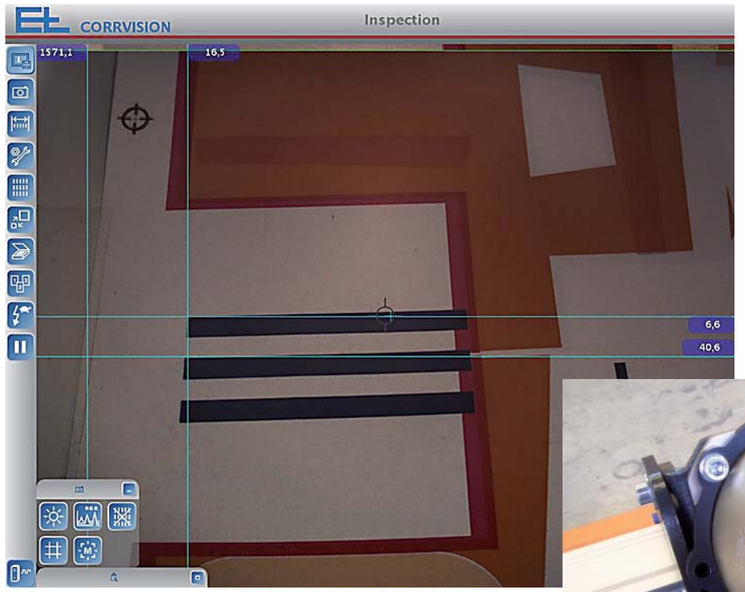

Fig. 1: Screenshot ELSCAN Monitor

Fig. 2: ELSCAN-CORR OCS 1

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ELSCAN-CORR OCS 1

The ELSCAN CORR OCS1 is installed primarily in the exit of the cut off knife and is synchronized with its cutting impulse. The motorized positioning support allows the positioning of the camera in any order-specific position.

The single, double or triple cut off knife cuts the corrugated board in its specific out. When using a double cut off knife two independent sheets can be run simultaneously. Thus two independently working ELSCAN CORR cameras are used accordingly.

The system eases the operator work tremendously because preprint is located on the bottom of the sheet and thus the operator would be able to inspect and measure it usually only at the down stacker.

In addition to increased health & safety benefits, through integration of ELSCAN CORR OCS1 the production of preprint becomes substantially more cost effective through reduction of order startup waste.

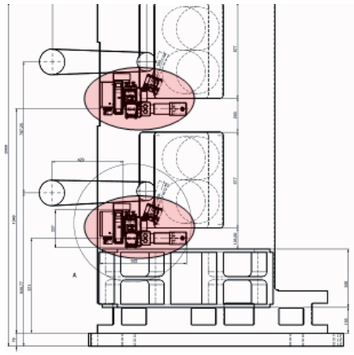

Fig. 3: Application drawing double cut off knife

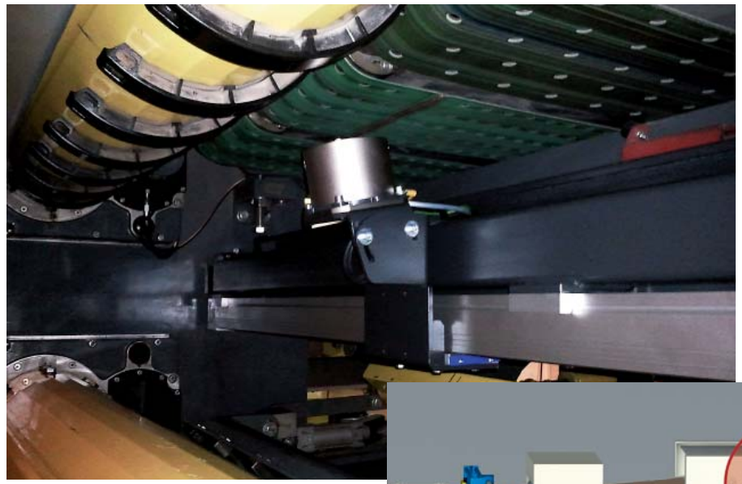

Fig. 4: Application sample ELSCAN-CORR OCS 1

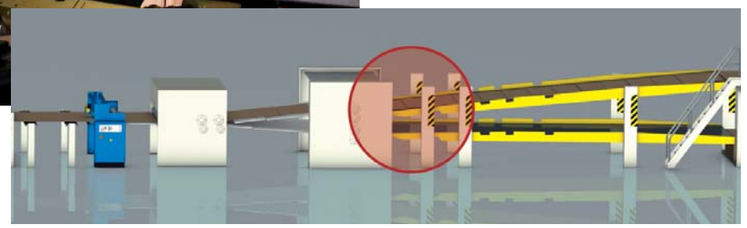

Fig. 5: Installation at the exit of the cut off knife