

Video Monitoring System VST

- *Print monitoring at speeds up to 2500 m/min and above*
- *Real-time inspection for bad quality and/or missing prints*

The VST video stroboscope has been designed to continuously monitor the print quality of fast-running cable printing machines. The system also offers the convenience of being able to view the entire print area at various magnifications on a monitor screen.

The integrated software allows various evaluations of the displayed print area; e.g. alarm in case of bad quality and/or missing prints.

The device is synchronized with the cable printer's stroboscopic signal output (12 pulses per printwheel revolution). A special high-speed camera periodically takes a sequence of 12 consecutive partial print photographs depicting the total print impression printed by the printwheel circumference and outputs them via a 1 Gb/sec Ethernet interface to any computer (not included with the basic VST Video Stroboscope).

The basic unit includes:

- VST stroboscope/camera with high-speed photography interface electronics.
- VST-sup, a 32x32x16 cm electronic supply box with all connecting cables for power supply and interface to the existing stroboscopic signal of the cable printer.
- Image processing software for installation on an (external) computer for magnified image display on a computer screen



Optional Units

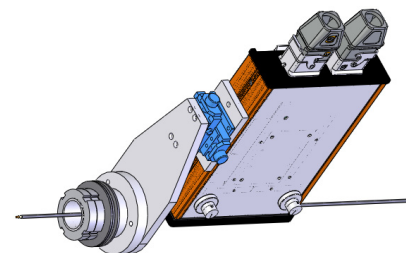
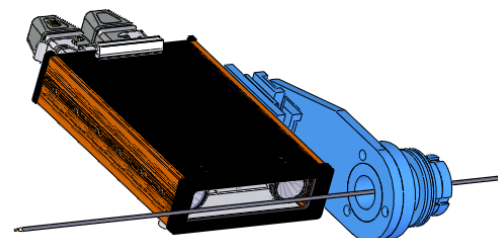
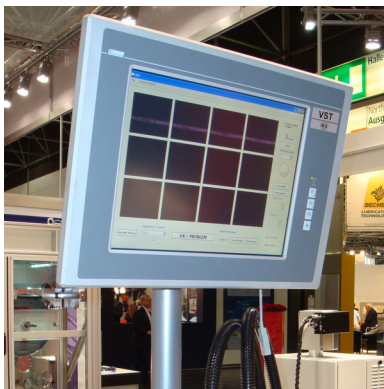
The following optional units are available for easy installation and optimal use of all software capabilities:

VST-ROT

Mechanical support with fine X-Y adjustment, easy to mount on any available rack, and enabling the VST video stroboscopic lamp to be rotated around the axis of the running cable so that the camera is focused on the print impression

VST-RACK

Robust rack with rack jack height adjustable column mounted support for VST-ROT rotary unit, VST-SUP supply unit, as well as optional computer and VST-PC monitor unit.



VST-ROT Rotation support

VST-PC

Computer with 1 Gb/sec Ethernet interface and touch screen monitor with mechanical support to be mounted on VST-RACK.

VST-SWL

Specially licensed image processing software for automatic monitoring of print quality. After adjusting the cable printer for optimal results, the operator enters the image displayed as a "good" reference image. The software then automatically monitors the taken periodically pictures by comparing them with the reference image entered. An alarm is triggered whenever an adjustable level of difference is exceeded.

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