



// 100% INSPECTION. FOR UNCOMPROMISING DEFECT DETECTION.

100% real-time defect detection: This is the strength of the SHARK LEX systems, which have been developed especially for a variety of uses in the narrow web and label printing industries. The SHARK LEX systems are characterised by their simple operation and reliably high productivity.

SHARK 4000 LEX and **SHARK 1000 LEX**, the 100% print defect detection systems for use on rewinders and narrow-web printing machines, stand out due to the well-engineered technology, extensive range of functions and comprehensive defect management software.

Your advantage: Invariably first-class printing results for the maximum satisfaction among your customers.

Choose from **SHARK 1000 LEX** or **SHARK 4000 LEX** system and get the best fitting system for your requirements:

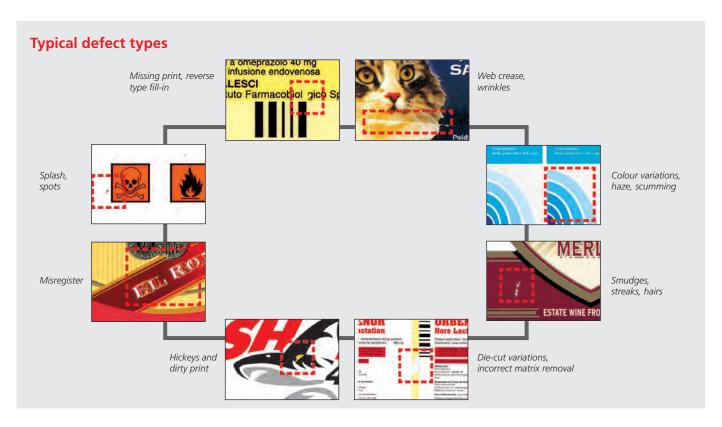
SHARK LEX at a glance:

SHARK 4000 LEX

- 100% defect detection for narrow web printing machines and rewinders
- **Process monitoring** when using the printing machine
- Web widths up to 600 mm (23")
- 4,000 pixel color or 6,000 pixel grayscale camera
- Detailed and very exact detection **even of smallest defects**

SHARK 1000 LEX

- 100% defect detection for narrow-web printing machines and rewinders
- Web widths up to 450 mm (17.7")
- 2,000 pixel grayscale camera
- Compact housing
- Suitable for **basic defect detection** requirements



// SUPERIOR DESIGN. SIMPLEST USE.

The BST SHARK LEX systems will impress you because: SHARK LEX is ...

... simple!

- The space saving single-monitor solution combines print monitoring and system operation on one touch screen
- The systems feature clearly laid-out categorisation of defects according to established defect types
- Lane tracking facilitates identification and reliable removal of defects by lane
- Live display of the complete repeat including error and error margin marking and parallel display of the relevant section of the reference image
- Illustrated list of errors
- Simple starting and stopping of the rewinder via the SHARK LEX user interface – without switching between 100% defect detection system and machine control

... flexible!

- Equipment with color or grayscale camera
- Job Memory function for rapid storage, loading and recall of jobs
- Optional connection to a workflow system for direct evaluation of roll protocols
- Remastering function to teach recurrent errors as a supplement to the golden master (original and new golden master can be used in further processing)
- Freely definable control areas to customise the print inspection for every job
- Suitable for **all types of substrates**, including highlyreflective materials

... intelligent!

- Job Report function for meaningful documentation, including a defect image for each defect that occurred
- Latest recognised defects can be accessed and graphically displayed using the **Defect History function**
- Automatic continuous color monitoring after definition of area
- Smart Flagging interface to mark defects according to different sizes or position on the web
- Pharma Mode function verifies once exchanged label again

... exact!

- **Reliable detection** both of random and repeating defects up to a minimum size of 0.03 mm² (depending on the application)
- **High-performance LED lighting system** for consistent lighting conditions and precise and reliable inspection results
- Referencing of the golden master using a PDF file

... quick!

- **Defect detection starts from the first running meter**, no minimum machine sspeed necessary
- Rapid set-up of new jobs with intelligent menu navigation



Clear SHARK LEX user interface



SHARK LEX repeat and defect overview

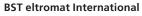
// SHARK LEX AT A GLANCE

SHARK 4000 LEX / SHARK 1000 LEX - Technical Data



Technical Data

	SHARK 4000 LEX	SHARK 1000 LEX
Camera	Color or grayscale camera	Grayscale camera
Monitor	Touch screen monitor (for control and monitoring)	Touch screen monitor (for control and monitoring)
Construction	Control box or mounting plate for panel mounting	Controller
Synchronization	Rotary encoder	
Max. web width	up to 600 mm	up to 450 mm
Max. web speed	up to 360 m/min	up to 300 m/min
Light sources	Diffuse, direct	
Minimum defect size	up to 0.03 mm²	up to 0.18 mm²
Substrates	transparent, opaque and reflective materials	
Data exchange	Ethernet interface (also remote control) / USB interface	
Supply	100 V – 240 V, 50/60 Hz, 920 VA	100 V – 240 V, 50/60 Hz, 420 VA
Ambient temperature	min. 5 °C, max. 40 °C (Monitor: see separate technical details)	



Heidsieker Heide 53 • 33739 Bielefeld • Germany

Tel.: +49 5206 999-0 • Fax: +49 5206 999-999 • info@bst-international.com

