# Automatic Performance Verification Tool for Detmaster MT system

5.2.2016

# The concept of automatic performance verification tool

- > This dedicated verification tool enables performance verification in conditions, which simulate the actual production line speeds.
- ➤ Test procedure is fully automatic. Full system scan is done within 10 minutes.
- > Performance verification is carried out with the certified pinhole and hole samples.
- > Verification covers the performance of the entire system.
- Report conform to ISO9001 standard requirements

# Linear drive support

- Automatic motorized platform
- High precision movement (20um/step)
- Serial communication interface for PC control
- Full system width verification

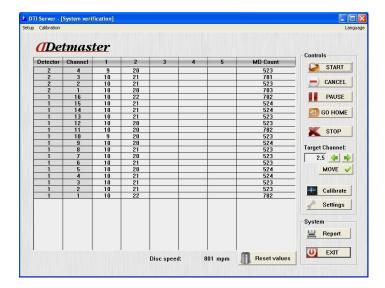
## **Verification Disc Unit**

- > Rotating disc in a safe enclosure
- Disc includes certified pinhole and hole samples
- Rotating speed adjustment 0 800mpm (strip speed)
- Max 2 hole samples/disc

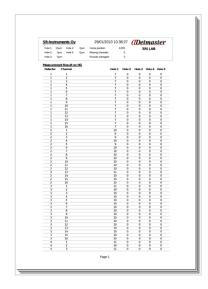


The Detmaster MPH system performance verification takes place at the production line by utilising the roll-out frame of the system. The procedure may be carried out at any time since it does not interfere the ongoing strip processing.

# Automatic performance verification system user interface



An advanced user interface with one-touch operation. Complete system check is carried out within 10 minutes. Real-time statistical window shows the detection rate and measured pinhole and hole size performance in micrometers.



Measurement report is available in a text form and in a fixed A4 template.

Report may also be printed as pdf file. Dated and filed reports assure operational quality.

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### **TECHNICAL SPECIFICATIONS**

Performance

	renormance	
	Maximum number of pinhole samples:	2
	Minimum diameter of detected pinhole:	200 μm
	Maximum diameter of detected hole:	No limitations
Applicability		
	Disc speed:	0 - 800 m/min
	Disc linear movement accuracy:	20 μm/step
Software		
	User interface:	Automatic test sequences with one-touch operation. On-screen statistics of measurement results.
	Reporting:	Full measurement report in fixed format to be printed or saved as pdf file. Measurement results are also saved in txt format.
Components:		
	PC:	Standard laptop PC with RS-485 serial communication, software license.
	Linear drive unit:	Motorized linear movement table, fitted installation in the system c-frame.
	Rotating disc unit:	Portable rotating disc with certified pinhole samples included.
	Cables:	Communication cables for linear drive and serial communications.