



VISION MASTER



**Advanced quality control solution
for nano & micro-perforation**

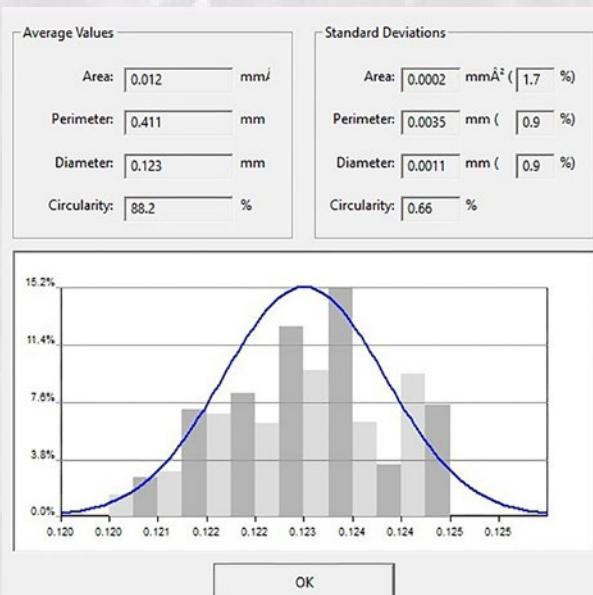


REAL-TIME INSPECTION AND CONTROL

SEI Laser, leader in laser technology, introduces a strategic innovation for the flexible packaging market: ***Vision Master***, a **high-performance integrated vision and control system**, capable of conducting real-time and individual inspection of each micro-hole produced by the laser.

The *PackMaker* system is our high-performance laser system for nano and micro perforation of plastic films. Designed for the flexible packaging industry, it guarantees breathable films ideal for food preservation. *VisionMaster* can be integrated with *PackMaker*, providing real-time, in-line inspection and control to ensure every perforation meets the highest quality standards.

In the flexible packaging industry, manufacturers often face critical challenges: unnoticed defects in micro-perforations, material waste, customer complaints, and the need to ensure consistent quality. *VisionMaster* addresses these issues directly, offering high-speed automatic control compatible with different plastic films, reducing waste, and boosting productivity.



100 µm – 605 x 620 px



µHole Vision Master: real-time monitoring

Intuitive operator dashboard

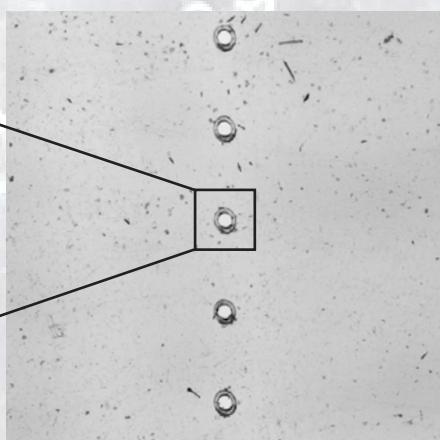
Automatic teaching function

Automatic PDF report

SYSTEM FOR NANO&MICRO-PERFORATION

Powered by advanced imaging and AI-driven algorithms, *VisionMaster* precisely verifies airflow through each perforation, monitors hole size and ovalization, and provides full traceability across every meter of processed material. The result is reduced waste, higher efficiency, and the confidence that every finished product meets the strictest quality requirements.

With this technological integration, SEI Laser continues to deliver advanced solutions that combine precise laser engineering with smart vision and automation, setting a new standard for quality and efficiency in flexible packaging.



	CAMERA 54	CAMERA 1412
FOV	5x4 mm	14x12 mm
Hole diameter	40÷3000 μm	200÷8000 μm
Resolution	2 $\mu\text{m}/\text{px}$	6 $\mu\text{m}/\text{px}$
Types of measurement	Diameter (μm), Circularity percentage (%)	
Measurement modes	Streaming, Report	
Maximum roll height	600 mm	
Types of film	Transparent, semi-transparent, glossy, printed, etc...	
Max. vision modules	8	
Max. material speed	600 m/min	
Max. sampling frequency	20Hz	
Inspection modes	Single inspection	Twin inspection

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