



EVG[®]720 EVG[®]7200

Automated SmartNIL[®] UV-NIL System



Introduction

Automated full-field UV Nanoimprint solution up to 200 mm, featuring EVG's proprietary SmartNIL[®] technology

The EVG720 und EVG7200 system leverages EVG's innovative SmartNIL technology and materials expertise to enable mass manufacturing of micro- and nanoscale structures.

Capable of printing nanostructures as small as 40* nm over a large area with unmatched throughput and low cost of ownership, the EVG720 system with SmartNIL technology is ideally suited for volume production of next-generation microfluidic and photonic devices, such as diffractive optical elements (DOEs).

The EVG7200 system brings the advanced soft stamp and imprint capability of SmartNIL to larger substrates. This enables greater cost-of-ownership (CoO) benefits and realizes the full manufacturing potential of nanoimprint lithography.

Technical Data

Wafer diameter (substrate size)	75 up to 150 mm (EVG720) 75 up to 200 mm (EVG7200)
Resolution	≤ 40* nm
Supported Process	SmartNIL [®]
Exposure source	High-power LED (i-line) > 400 mW/cm ²
Alignment	Optional top side alignment
Automated separation	Supported
Mini environment and climate control	Optional
Working stamp fabrication	Supported

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Features

- Volume-proven imprinting technology with superior replication fidelity
- Proprietary SmartNIL[®] technology with multiple-use polymer stamp technology
- Integrated imprinting, UV curing demolding, and working stamp fabrication
- Automated cassette-to-cassette handling plus semi-automated R&D mode
- Optional top-side alignment
- Optional mini-environment
- Open platform for all commercially available imprint materials
- Scalability from R&D to production
- System housing for best process stability and reliability

*resolution dependent on process and template

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