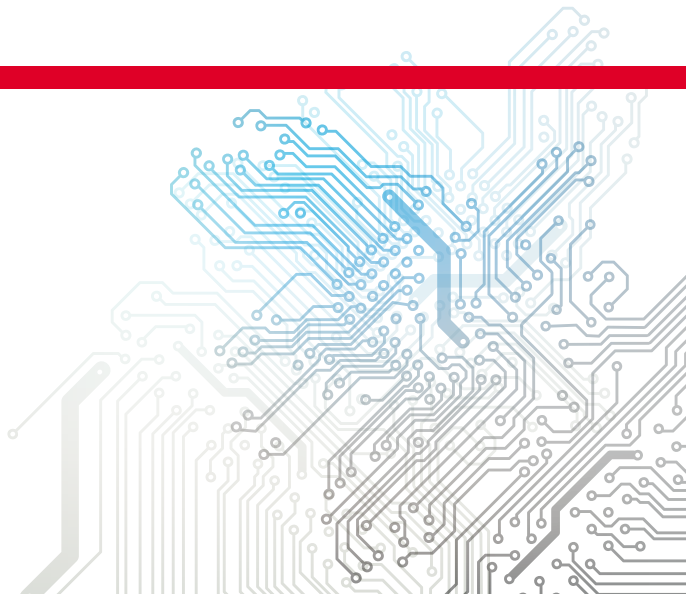# nsm

technologies for functional printing

technologies for
functional printing

Your partner for modular solutions combining printing, coating, laminating and curing

nsm is a leader in manufacturing high-precision printing, coating and laminating machines for the field of printed electronics. Our Swiss precision and solutions are the foundation for research and pilot production in sensors, photovoltaics, energy solutions and beyond.

From compact benchtop solutions to fully automated multi-station systems, nsm offers an extensive portfolio of printing, coating and laminating equipment. Our R2R and S2S systems, equipped with various printing, coating, laminating and curing stations, are specifically designed for R&D and pilot production.
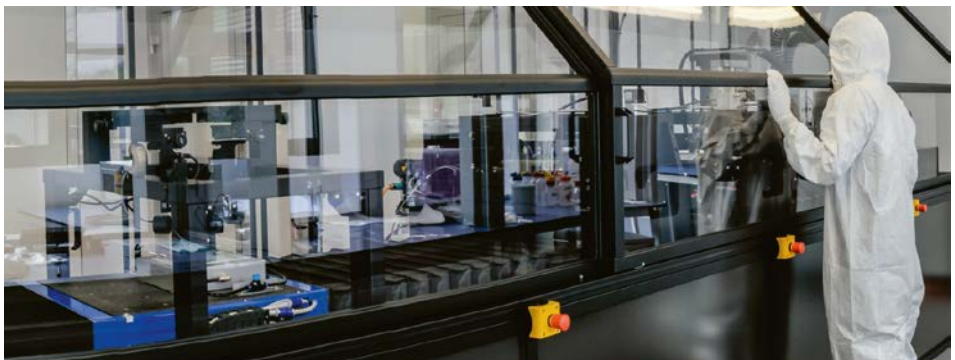
R2R and S2S technology

Scalable solutions: Benchtop to fully automated pilot lines

Customizable for any project

Printing – Coating – Laminating – Drying – Curing

Flexible Electronics – Smart Packaging – Energy solutions

Machinery Overview

650 *challenger*

Ultra-precision, fully integrated, sheet-based system

- Multiple printing/coating/curing technologies
- Recipe control
- Camera Alignment System for high-precision multilayer printing
- Handles flexible/rigid substrates
- Process speed: up to 90 m/min
- Subsrate size: up to 300 × 300 mm

175 *challenger*

Fully integrated sheet-based system

- Multiple printing/coating/curing technologies
- Camera Alignment System for high-precision multilayer printing
- Handles flexible/rigid substrates
- Process speed: up to 60 m/min
- Subsrate size: up to 300 × 300 mm

challenger 273

Compact, versatile and modular sheet-based system

- Multiple printing/coating/curing technologies
- Camera Alignment System for precision multilayer printing
- Handles flexible/rigid substrates
- Process speed: up to 60 m/min
- Subsrate size: up to 210 × 148 mm (DIN A5)
- L×W×H: 2000 × 800 × 1820 mm

explorer 750

Versatile & modular Roll-to-Roll system with inert gas/vacuum option

- Multiple printing/coating/curing technologies
- Interchangeable printing units
- Process speed: up to 100 m/min
- Web width: up to 300 mm

Versatile & modular Roll-to-Roll system

- Multiple printing/coating/curing technologies
- Interchangeable printing units
- Process speed: up to 100 m/min
- Web width: up to 300 mmmm

Compact, versatile and modular sheet-based system

- Multiple printing/coating technologies: Slot-Die, Flexo, Gravure, Screen & Gravure Offset
- Handles flexible substrates
- Camera Alignment System for precision multilayer printing
- Process speed: up to 30 m/min
- Subsrate size: up to 210 × 148 mm (DIN A5)
- L×W×H: 1200 × 880 × 2225 mm

Benchtop printing machine for versatile R&D sheet applications

- Multiple printing technologies: Flexo, Gravure, Screen & Gravure Offset
- Handles flexible/rigid substrates
- Process speed: up to 30 m/min
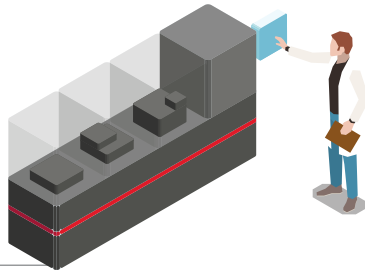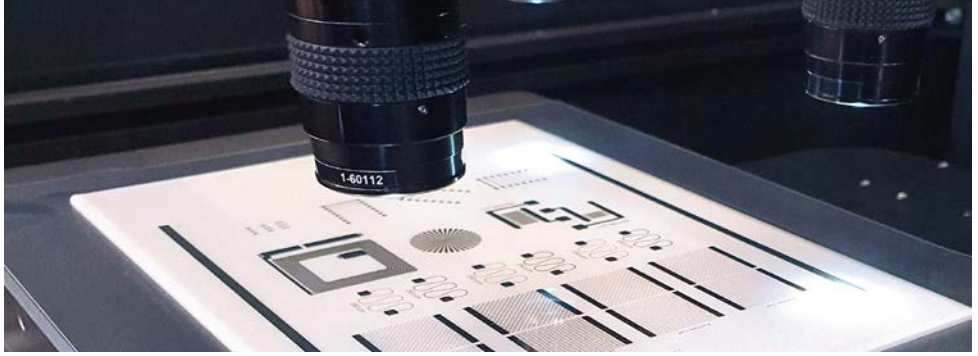- Subsrate size: up to 210 × 148 mm (DIN A5)
- L×W×H: 1250 × 800 × 650 mm

Benchtop laboratory sheet-based gravure printing machine

- Ideal for testing inks as well as the printability of various flexible substrates.
- Handles flexible substrates
- Process speed: up to 35 m/min
- Subsrate size: up to 210 × 148 mm (DIN A5)
- L×W×H: 950 × 580 × 350 mm

Versatility

Printing and Coating Technologies

Slot-Die

Screen

Flexo

Gravure

Gravure Offset

Inkjet

Lamination

and more

Drying, Curing and Pretreatment

Hot air

UV

NIR

Photonic curing with pulsed light

Corona

and more

Application purpose

Lab

R&D

Pilot

Small batch production

nsm
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