

**nsm**

Norbert Schläfli AG

nsm specializes in developing, constructing, manufacturing and globally distributing:

- Pilot lines for functional- and security printing
- Laboratory printing machines
- Customized printing machines

nsm equipment is in great demand for

prototyping:

- OLED's
- solar cells
- displays
- sensors
- lighting
- batteries, ect.

testing:

- inks
- substrates

Member of  
**oe-a**

**inet**

# 650

## challenger

### Sheet-to-Product

Highly precise printing and coating system for functional printing, printed electronics and security printing.

Used for R & D, pilot and production application in a wide range of industries.



The challenger 650 is designed to explore various possibilities and combinations of coating and printing with a precision of 10 µm in one machine.

- Gravure
- Flexo
- Screen
- Slot die
- Indirect gravure
- Inkjet
- Laminator
- Pick & place
- Etc.

# 650

## challenger

### Sheet-to-Product

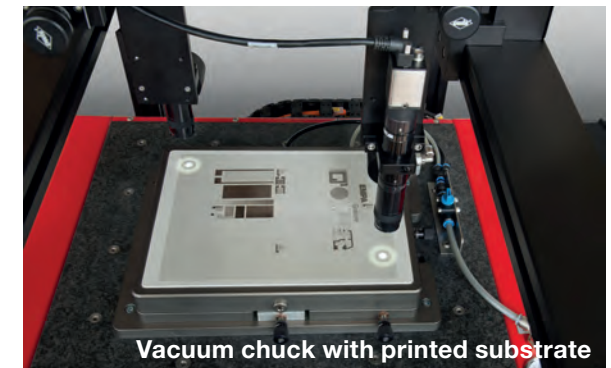
Available printing and coating units:

- Gravure
- Flexo
- Screen
- Slot die
- Indirect gravure
- Inkjet
- Pick & place
- Laminator
- Etc.

- Printing and coating on flexible and rigid substrates
- Integrated air bearing guide allows vibration-free movement of the substrate carriage
- Individually programmable printing and coating speed at each station
- Programmable drying process (UV / Air / Photonic Curing, etc.)
- Optical alignment system
- Measuring software
- Accuracy and reproducibility <10 µm

- Substrate size Max. 297 x 216 x 4 mm
- Printing size Max. 240 x 170 mm
- Printing speed Up to 90 m/min.

- Length 5500 mm
- Width 1400 mm
- Height 2100 mm
- Weight Approx. 6500 kg



Vacuum chuck with printed substrate

# 650

challenger

Sheet-to-Product



Comb-Nozzle and UV Dryer



Screen



Flexo



Gravure