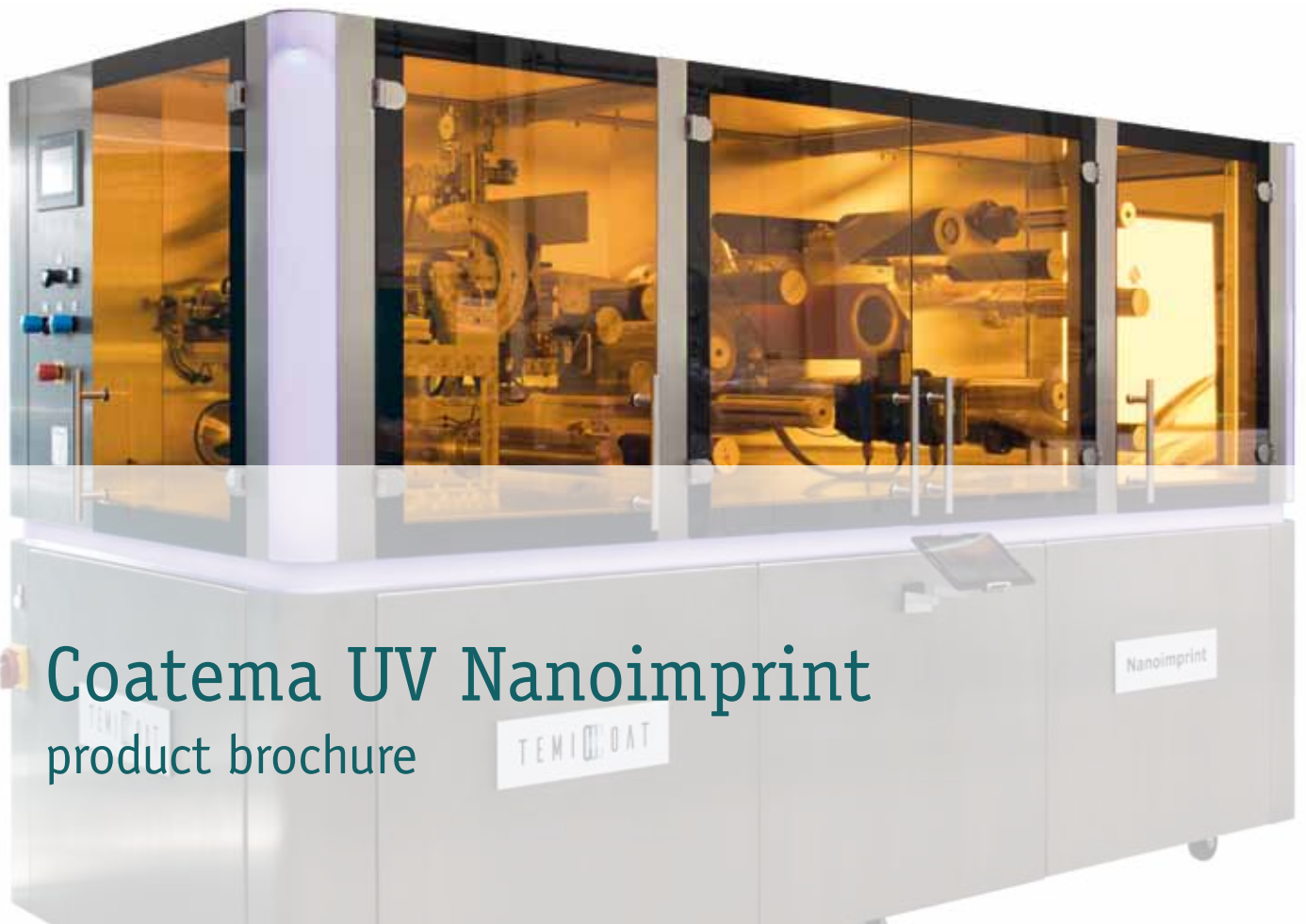


Lab

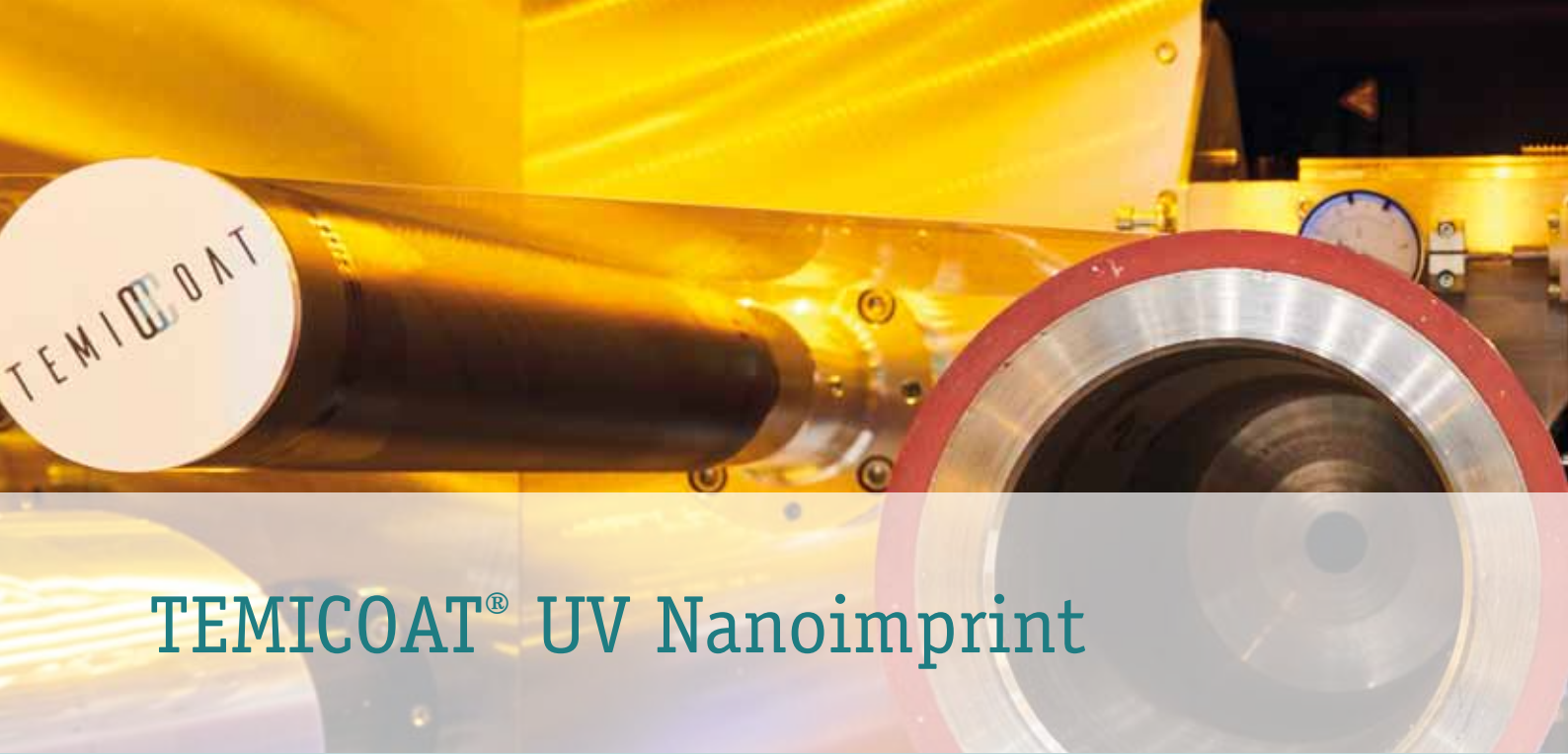
UV Nanoimprint

TEMI COAT  
NANOIMPRINT TECHNOLOGIES

**Coatema**<sup>®</sup>  
Coating Machinery GmbH



Coatema UV Nanoimprint  
product brochure



# TEMICOAT® UV Nanoimprint

## Next-Level Nano and Micro Imprinting Technologies

TEMICOAT Nanoimprint Technologies, R2R and R2P (roll-to-roll and roll-to print), provide next-level imaging and processing tools for the most exacting nano and micro imprinted structures. The TEMICOAT cooperation offers lab, pilot-production and complete manufacturing machinery, chemistry, substrates and seamless imprinting sleeves (shims) to meet these needs.

TEMICOAT Nanoimprint Technologies is a joint venture of the global brands of Coatema Coating Machinery GmbH and Temicon GmbH; both innovators for precision coating and printing. Equipment maker Coatema and solution provider Temicon, provide a total solution for the most challenging applications.

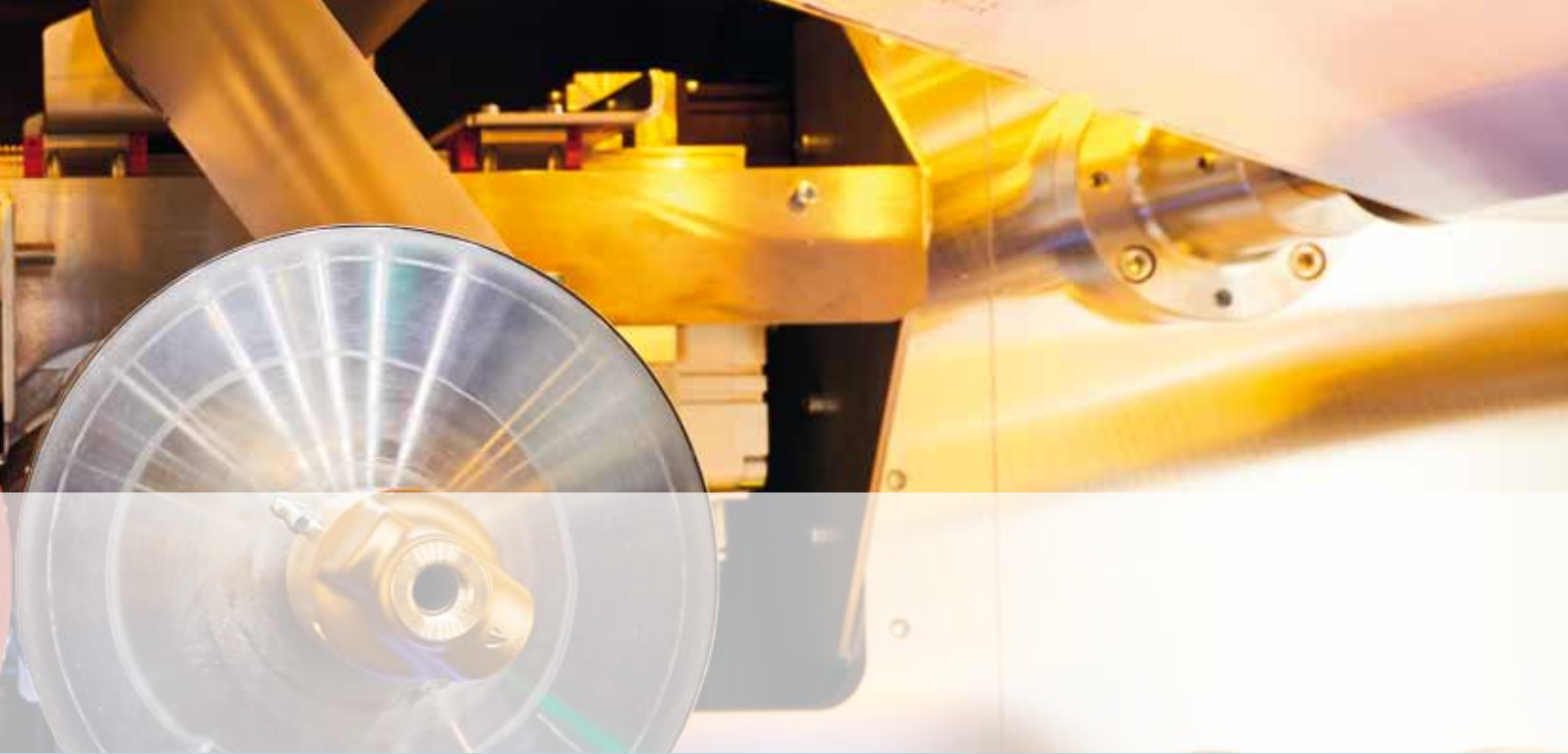
The full range of Coatema's modular processing layouts for lab, pilot production and manufacturing scale are available with TEMICOAT nanoimprint tool in working width from 100 mm to 2,000 mm.

Components can include, corona treatment, web cleaning, slot die coating, engraved roller printing, heated air dryer, infrared heating, UV LED, standard UV, nanoimprint tool, lamination and quality control. Custom specified components can be included.

Lab and pilot scale R&D tools are available, for research and development, at the Coatema R&D center in Dormagen, Germany.



Working width 300 mm



## Modular layout



Engraved Roller Coating



Slot Die Coating



Nanoimprint tool



Rewinder



Winder



Tablet Control



Big Scale Safety Information



Nanoimprint + UV LED

## Temicoat Nanoimprint Systems



### LAYOUT FEATURES R2P

(as shown in drawing to the left)

- ① Winder
- ② Corona unit
- ③ Web cleaning
- ④ Slot die/  
engraved roller coating
- ⑤ Nanoimprint roller
- ⑥ Lamination
- ⑦ UV LED
- ⑧ Rewinder

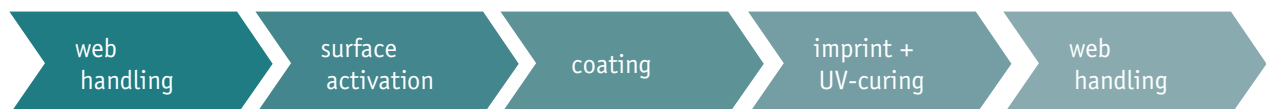
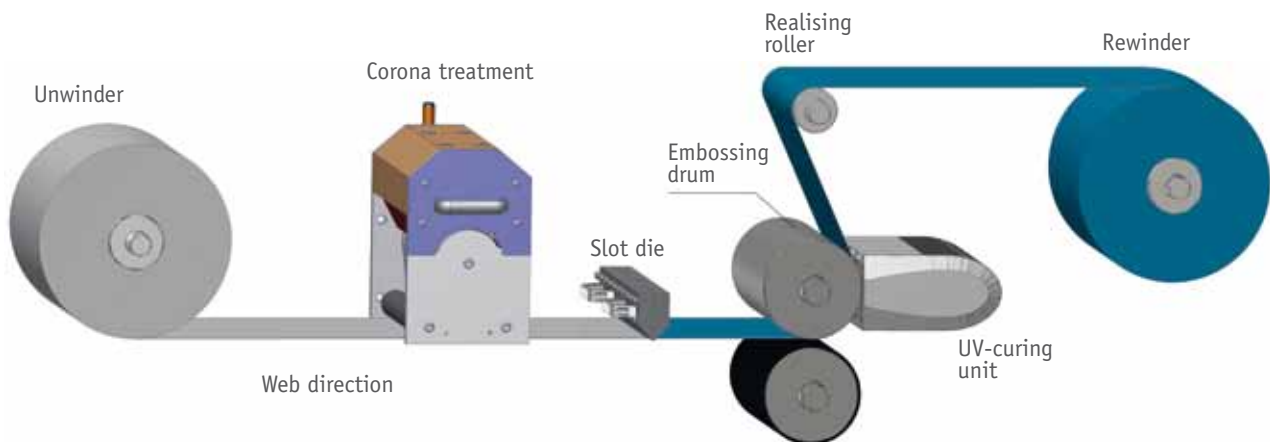


### LAYOUT FEATURES R2R

(as shown in drawing to the left)

- ① Winder
- ② Corona unit
- ③ Web cleaning
- ④ Slot die/  
engraved roller coating
- ⑤ Nanoimprint tool
- ⑥ Rewinder

## Process flow





## State of the art equipment

### TEMICOAT Benefits

A unique combination of R2R and R2P processing tools and nanoimprint know-how and materials from TEMICOAT can provide a total solution for your imprinted product. An endless toolbox of designs and surfaces, for nano and micro structures, provide next-level functionality for your product surfaces, performance or aesthetics.

#### Here are a few benefits of the TEMICOAT approach:

- ✓ Modular coating and printing system
- ✓ Variety of drying and cross linking systems
- ✓ Precision, seamless, nickel or polymer sleeves
- ✓ Accurate tension and registration control
- ✓ Nanoimprint tool for existing lab and pilot lines
- ✓ Automated surface inspection and quality controls
- ✓ Siemens S7 wireless or wired touch panel controls

## Coatema R&D Solutions

At Coatema Coating Machinery GmbH in Dormagen, Germany you have the possibility to work in the worlds most versatile R&D centre for coating, printing and laminating.

- ✓ equipped with several pilot coater and printer, a production line and a Click&Coat<sup>TM</sup> system
- ✓ working widths from 100 mm up to 1,000 mm
- ✓ experienced technical and executive staff, well equipped chemical labs & meeting rooms
- ... will help analyze your needs and measure results before, during and after process trials.

If you like to run trials please contact: [info@coatema.de](mailto:info@coatema.de) or call: +49 (0) 21 33 - 97 84 - 0



# Research & Development Centre at Coatema