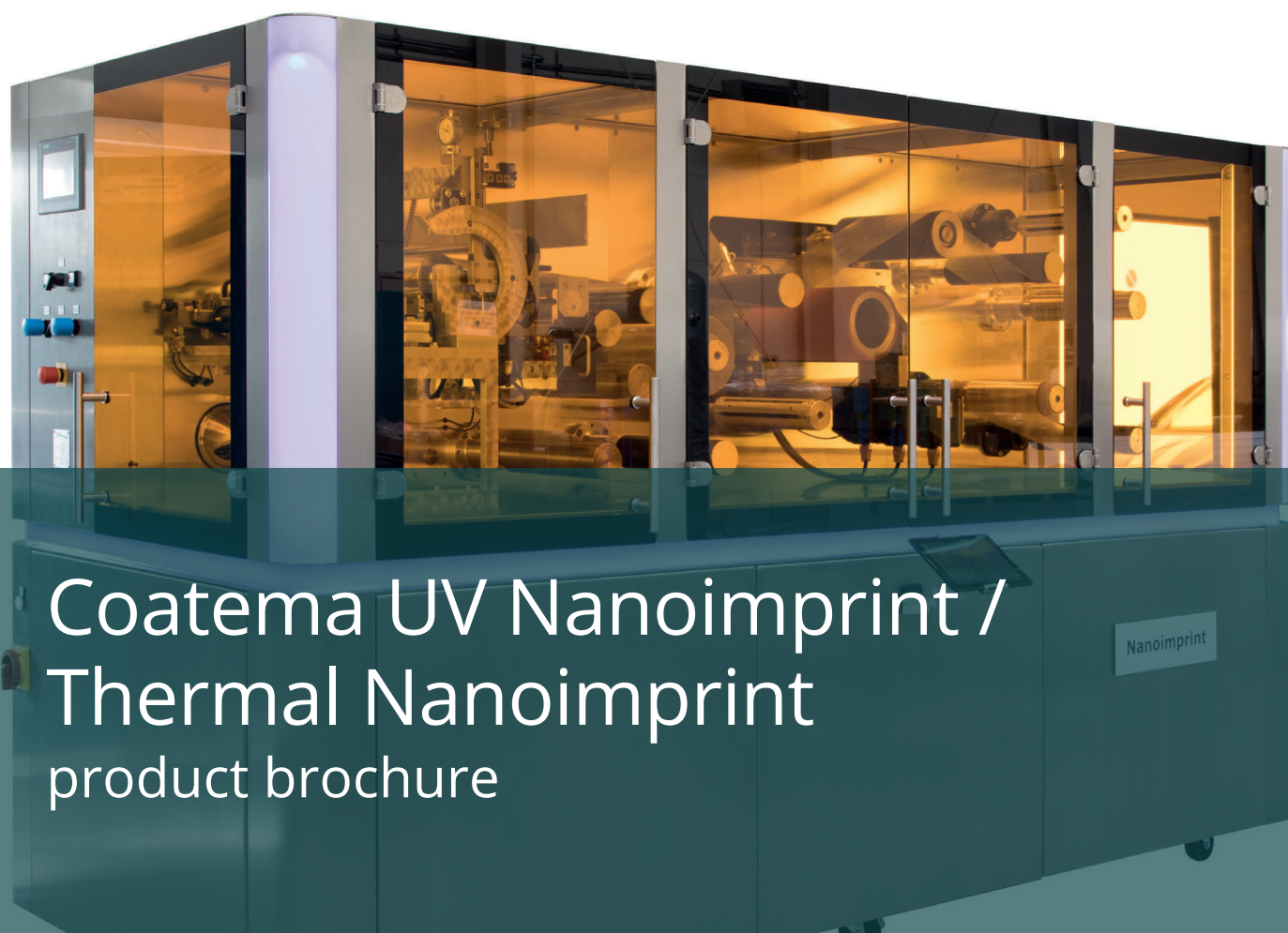


Lab

UV & Thermal Nanoimprint



Coatema UV Nanoimprint / Thermal Nanoimprint product brochure



Coatema UV Nanoimprint / Thermal N

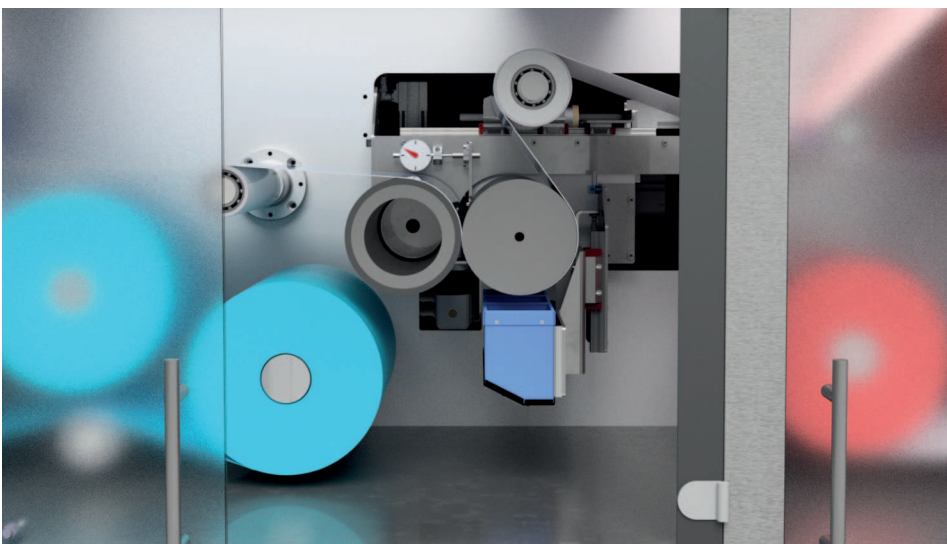
Specs for thermosetting (duroplastic) materials

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

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

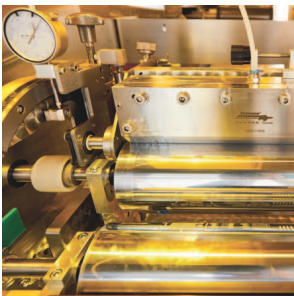
Components can include, corona treatment, web cleaning, slot die coating, engraved roller printing, heated air dryer, infrared heating, UV LED, standard UV, nanoimprint tool, lamination and quality control. Custom specified components can be integrated.

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



anoimprint

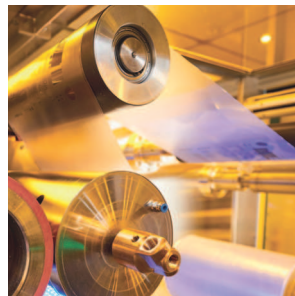
Modular layout



Coating



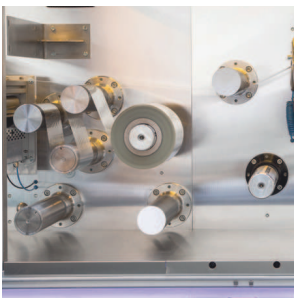
Nanoimprint + UV LED



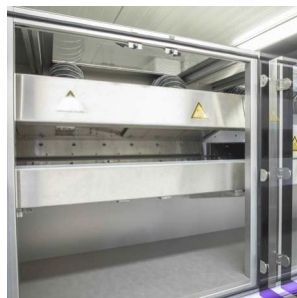
Nanoimprint tool



HMI



Winder



Dryer

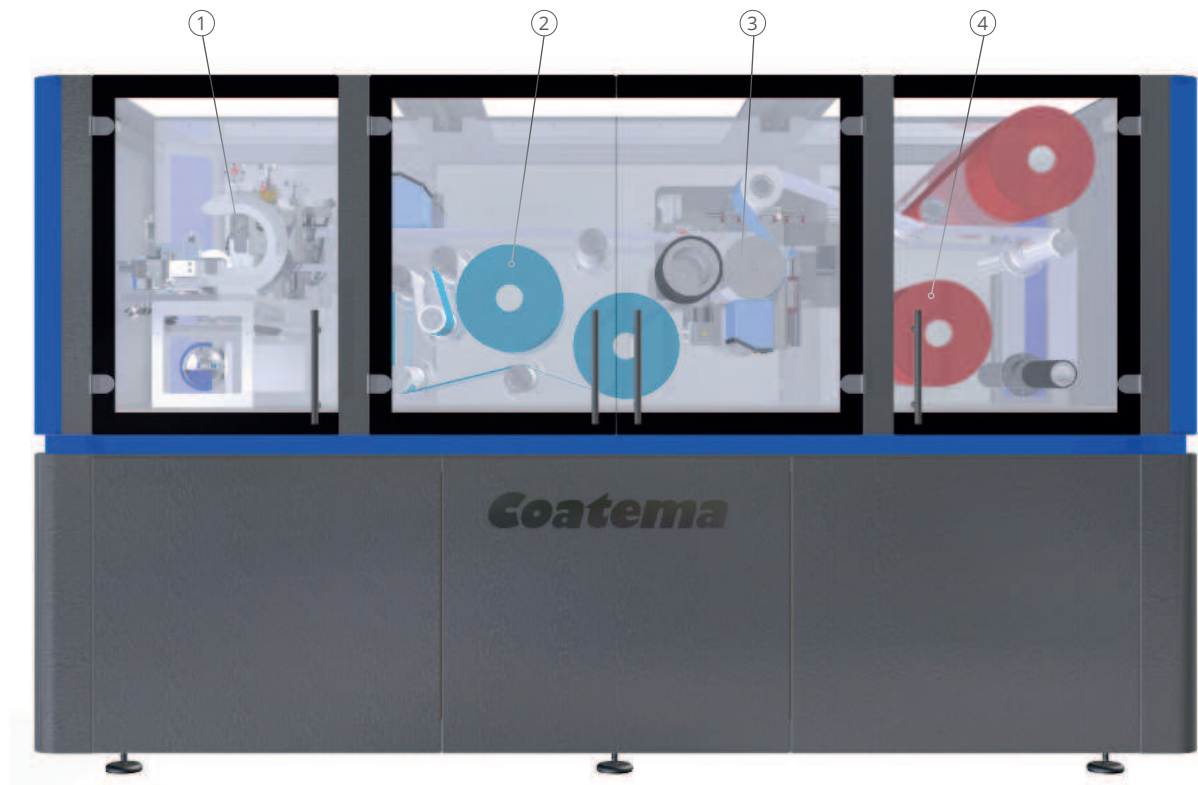


Rewinder



Slot die

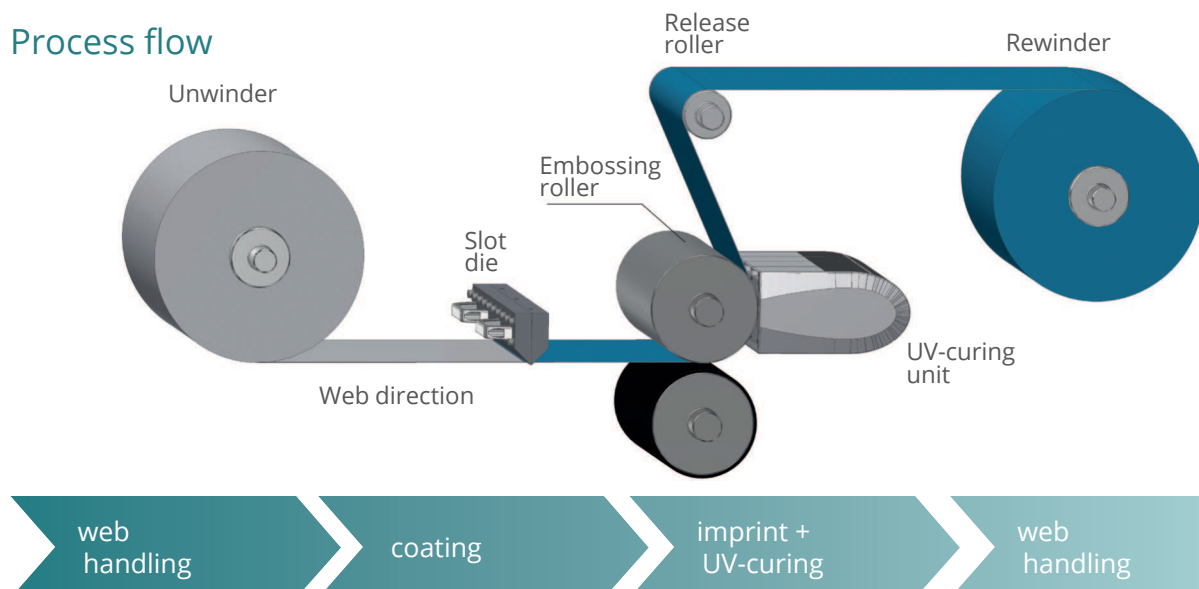
Nanoimprint systems

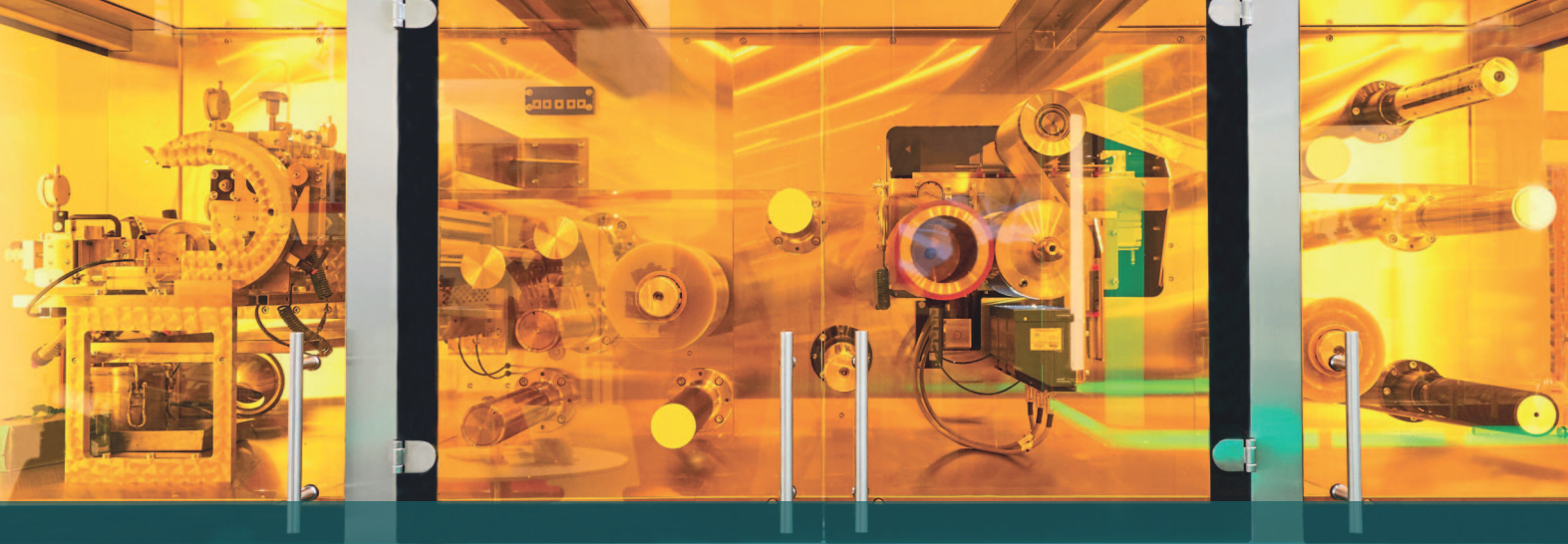


LAYOUT FEATURES (as shown in drawing above)

- ① Coating ② Unwinder ③ Nanoimprint tool ④ Rewinder

Process flow





State of the art equipment

Benefits

A unique combination of R2R processing tools and nanoimprint know-how and materials 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 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



Coatema R&D solutions

At Coatema Coating Machinery GmbH in Dormagen, Germany you have the opportunity to work in the world's largest and most versatile R&D centre for coating, printing, and laminating.

- ✓ Equipped with S2S and R2R coaters, pilot lines for coating & printing, versatile and modular Click&Coat™ systems
- ✓ Over 10 pilot lines with working widths from 100 mm up to 500 mm in operation, also available in virtual trial runs
- ✓ Experienced technical and executive staff, well equipped chemical labs & meeting rooms
- ✓ Needs based analysis and measured, actionable results before, during, and after process trials
- ✓ From idea to process to product, the Coatema R&D centre with the R&D projects team is the place to be for everyone in fuel cells, electrolyzers, batteries, membranes, solar, printed electronics and more

If you like to run trials please contact:
sales@coatema.de or call: +49 21 33 97 84 - 0



**Visit our
R&D website**



**Visit our virtual
R&D centre**



Research & development centre at Coatema

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