

Lab

Smartcoater



Coatema Smartcoater

product brochure

Coatema Smartcoater

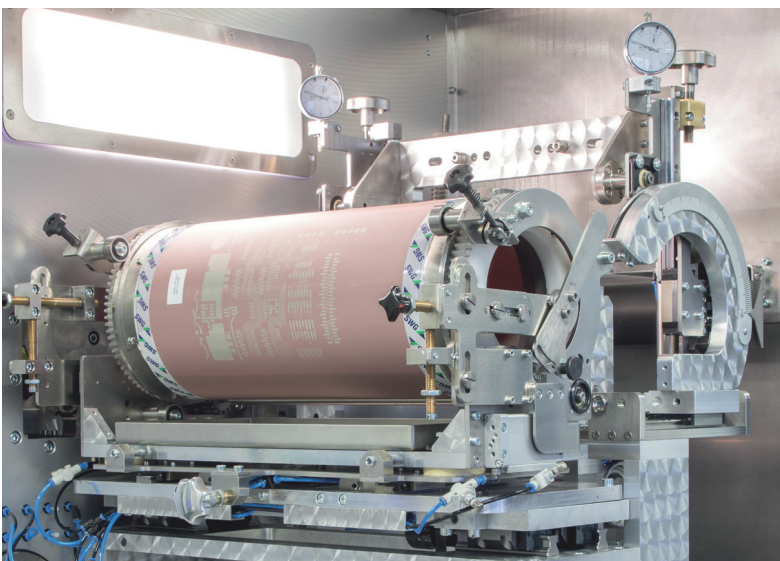
Unique on the market

The most R2R lab units that are available today have the inherent problems of a relatively wide working width and a high through put speed. That's where the Coatema Smartcoater fills the gap in the market.

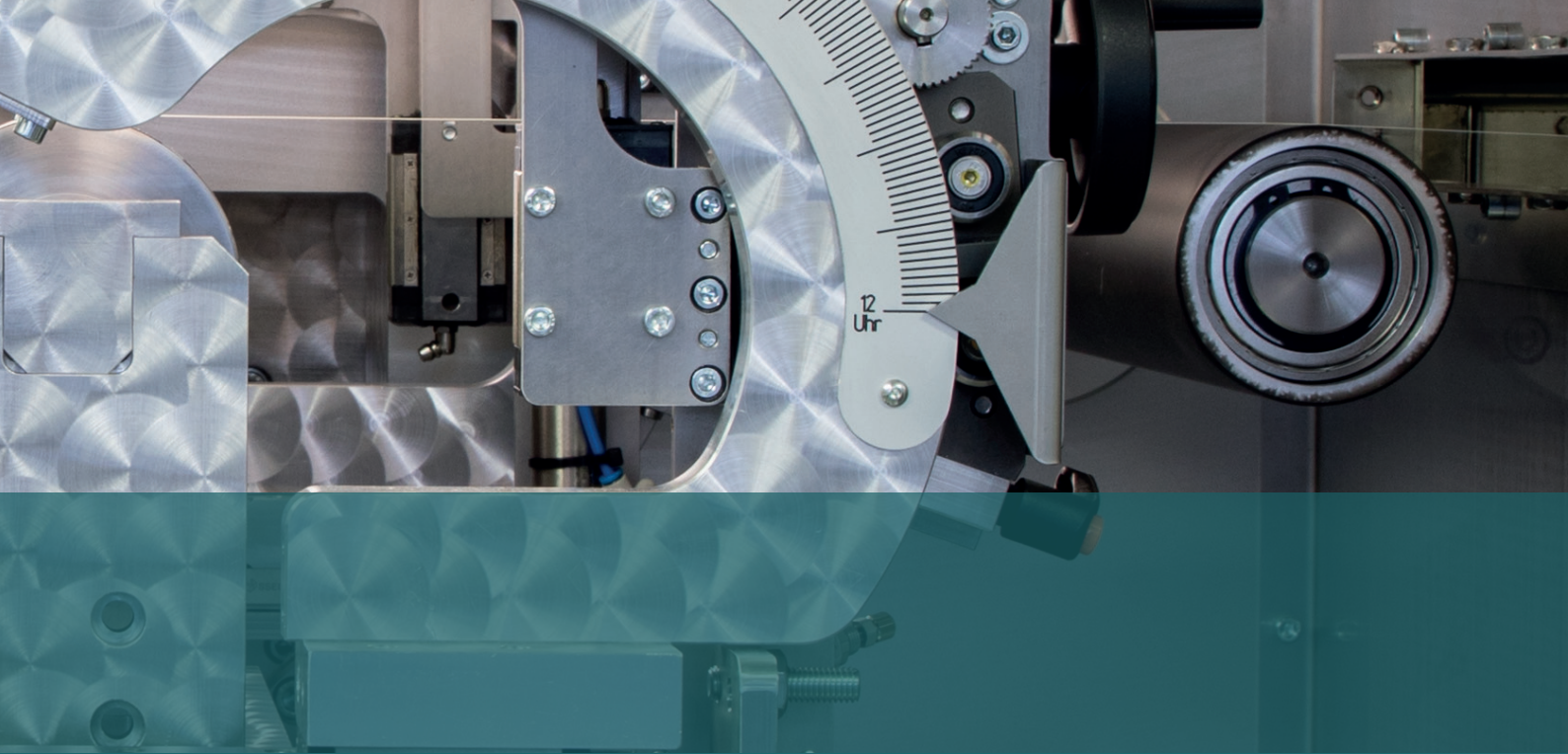
It's a versatile development tool for production processes on a small scale with working widths from 100 mm to 300 mm and a wide range of coating, printing and laminating applications and production speeds.

Sophisticated products can be produced on the Smartcoater with a minimum use of substrate and chemistry. To reduce the setup time during test series the so called 6-in-1 coating module has been developed. This combined solution is unique on the market.

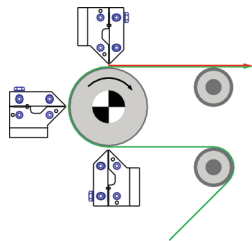
Smartcoater proof of concept can be tested in our R&D centre in Germany.



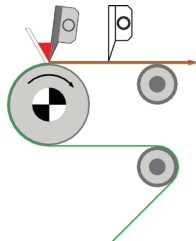
Screen printing & slot die



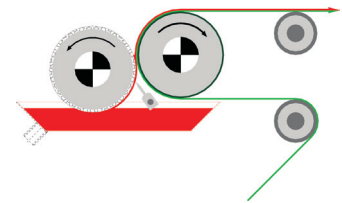
Smartcoater 6-in-1 coating/printing module or 42 other coating & printing systems



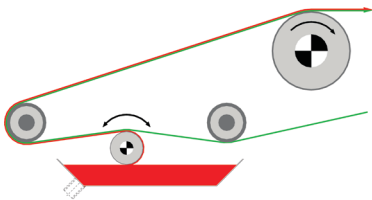
Slot Die system



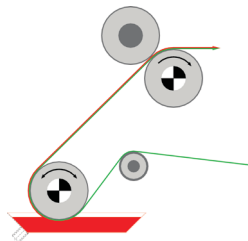
Knife system



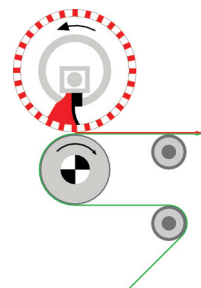
Engraved Roller system



Micro Roller system



Dipping system (Foulard)



Rotary Screen system (optional)

The Smartcoater is also available with exchangeable coating/printing systems, laminating add ons, inkjet, laser and nanoimprinting.

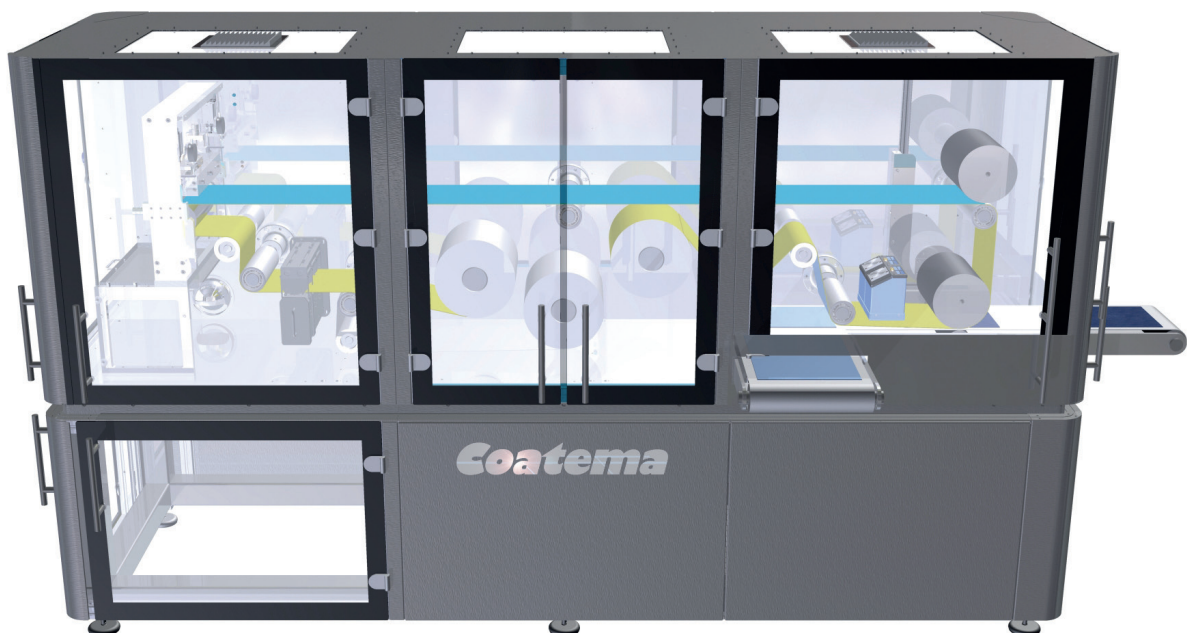
Smartcoater Standard



LAYOUT FEATURES (as shown in drawing above)

- | | | | |
|-----------------|----------------|-------------------|--------------|
| ① Unwinder | ③ Corona | ⑤ 6-1 application | ⑦ Lamination |
| ② Guiding frame | ④ Web Cleaning | ⑥ Hot Air Dryer | ⑧ Rewinder |

Custom Made Smartcoater





A High-Tech Development Tool

Benefits

Coatema is designing and building the Smartcoater for more than 10 years. The latest generation is totally new redesigned. The idea behind this is a clean and open industrial design with improvements in process control and overall user experience.

The proven platform strategy with the 6-in-1 system for the application systems in the standard configuration or with over 40 different coating and printing systems provides a full control over your processes. All different curing, drying and UV crosslinking systems can be combined with your coating & printing processes and the newest state of the art lamination can be included.

Wireless tablet control or standard control panels, based on unique Coatema software solutions and on Siemens S7 provides the user with everything needed for a high tech and reproducible lab operation. Economical lab operations and reproducible results are the key for your successful product development.

Here are a few benefits of the Smartcoater approach:

- ✓ 6-in-1 coating/printing system
- ✓ High accuracy in the process
- ✓ Over 40 different coating & printing systems
- ✓ Reproducible results – scalable R&D
- ✓ With high accuracy – multilayer in a short time
- ✓ EEx operation on small scale
- ✓ Custom made designs available



Coatema R&D Solutions

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

- ✓ equipped with several pilot coater and printer, a production line and a Click&Coat™ system
- ✓ working widths from 100 mm up to 800 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 or call: +49 (0) 21 33 - 97 84 - 0



Research & Development Centre at Coatema