

Coatema

Coatema Easycoater

03/06/25

MEMBER OF ATH

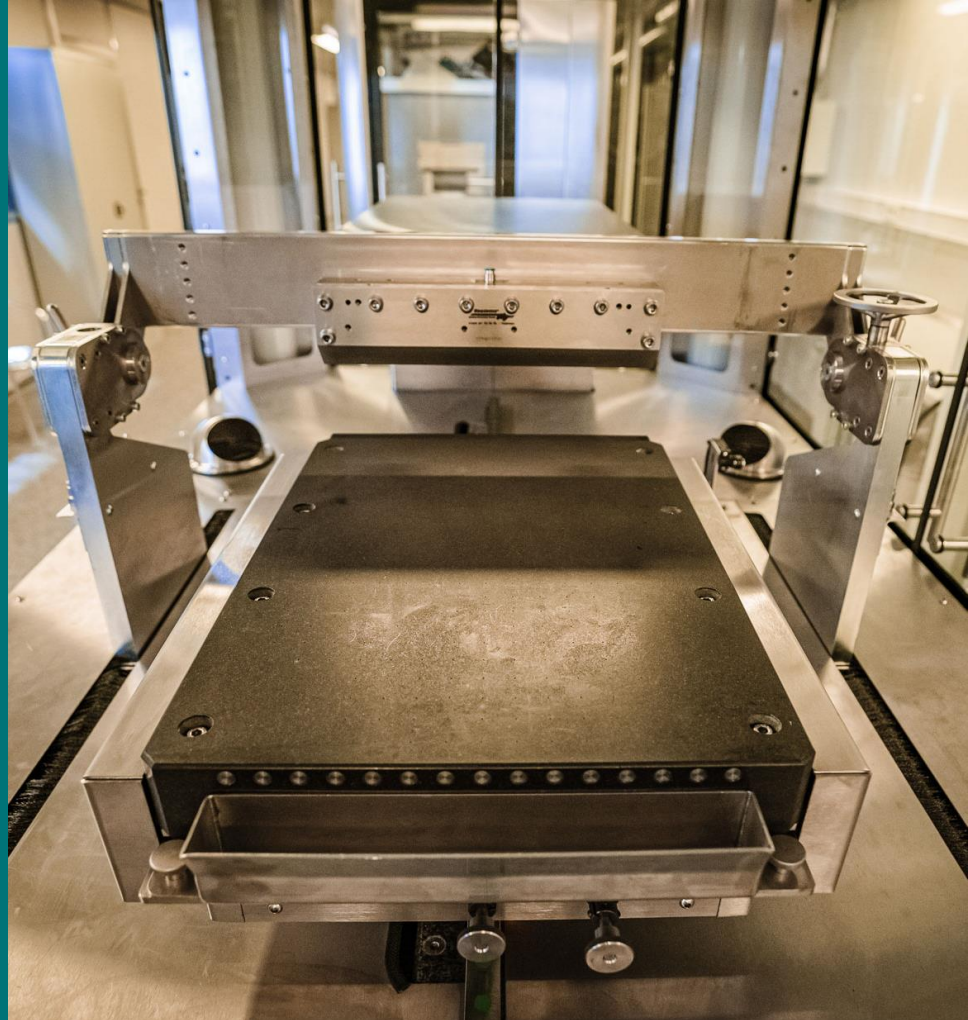
Agenda

1. Introduction
2. Coatema Easycoater
3. Easycoater custom made
4. Options & specifications
5. Summary

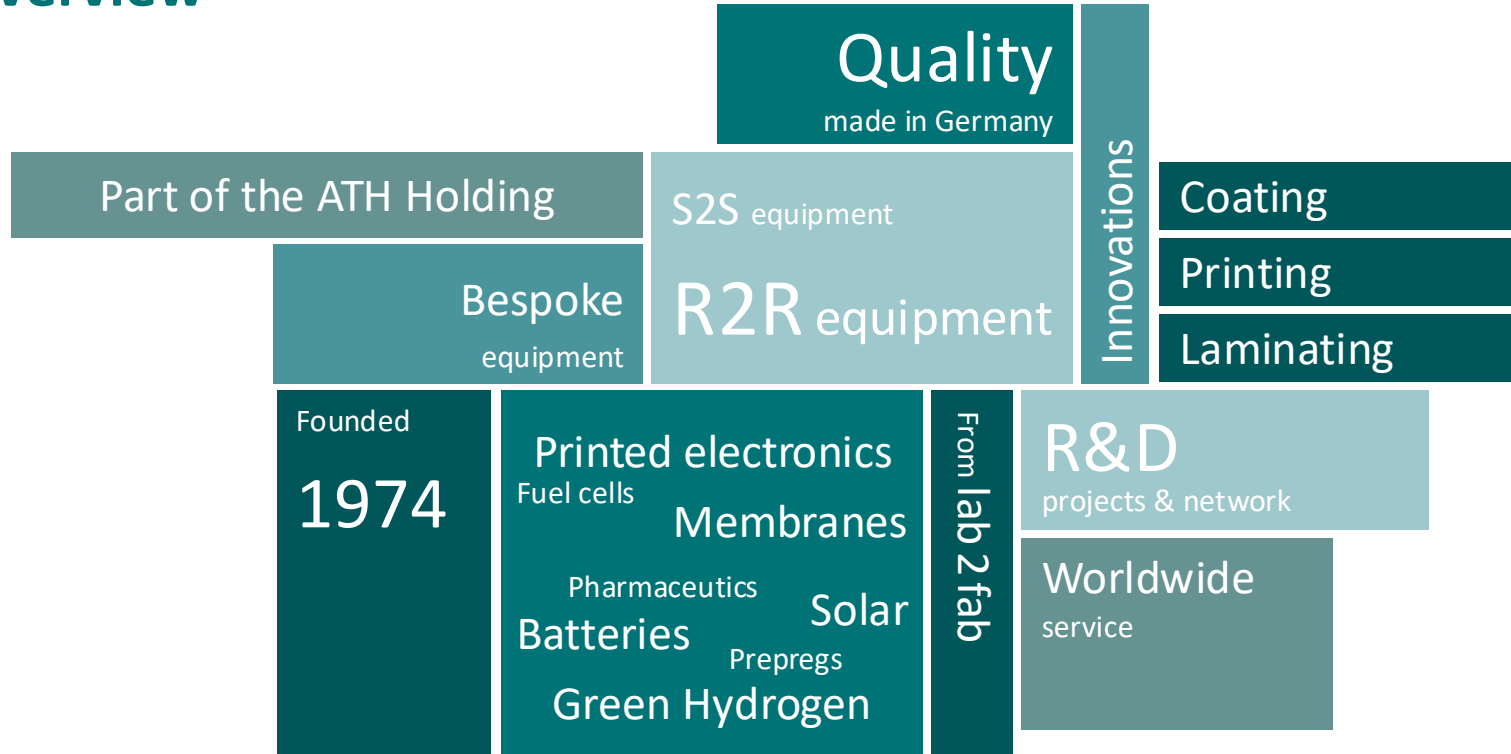


1.

Introduction



Overview



Group of companies

ATH ALTONAER
TECHNOLOGIE
HOLDING



- ✓ Founded 1903
- ✓ Approx. 200 employees
- ✓ Located in Hamburg

DRY/TEC

- ✓ Founded 1995
- ✓ Approx. 50 employees
- ✓ Located in Norderstedt



- ✓ Founded 1974
- ✓ Approx. 50 employees
- ✓ Located in Dormagen

Coatema equipment platform strategy for lab 2 fab



Lab

- ✓ State-of-the-art research and development equipment
- ✓ Sheet-to-sheet to roll-to-roll systems on small scale & footprint



Pilot Production

- ✓ Proven processes for printing, coating and laminating equipment
- ✓ Highest-quality pilot lines enable stable pilot production and reduce cost of operation
- ✓ Scaling laboratory equipment to enable pilot production



Production

- ✓ Full-scale production lines
- ✓ Optimize the manufacturing process, including streamlining assembly, reducing material waste, and optimizing the carbon footprint

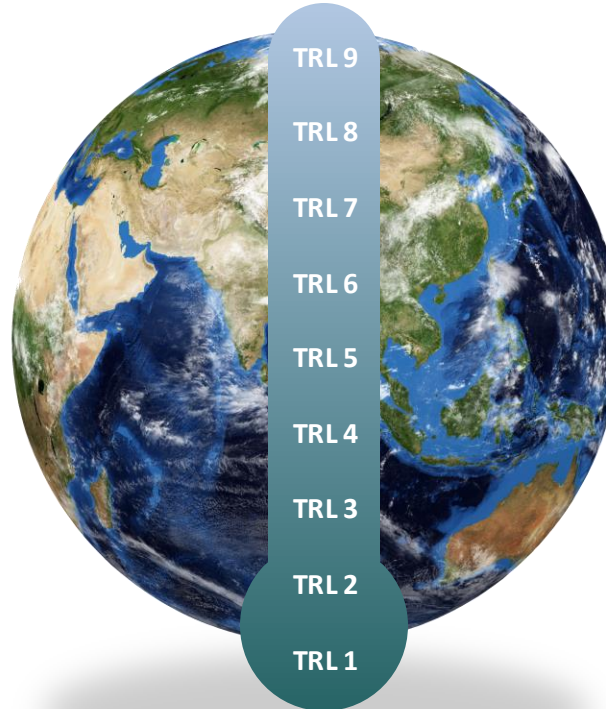
Our markets – Coatema focus areas

Green Hydrogen

Fuel cells

Batteries

Solar



Sustainability

Digital fabrication

Printed
electronics

The next thing

R&D centre USP



Process development

- ✓ Feasibility study
- ✓ Ink – process study
- ✓ Process analysis
- ✓ Slot die coating simulations
- ✓ Proof of concept
- ✓ Small scale prototype



Test production

- ✓ Prototyping
- ✓ Near to market testing
- ✓ TRL evaluation
- ✓ Training of staff



Education

- ✓ Coating conference
- ✓ Partner trainings
- ✓ Education of students
- ✓ Workforce training



Development of custom-made design for equipment

- ✓ Prototyping
- ✓ Proof of concept



Public funded research projects know-how

- ✓ German funded
- ✓ Horizon 2020
- ✓ Global 2+2 projects
- ✓ B2B projects

Coatema services as an overview

The Coatema R&D centre



Accelerate your innovation in our dedicated pilot facility with advanced lab & pilot lines and expert guidance – bridging the gap from #lab2fab.



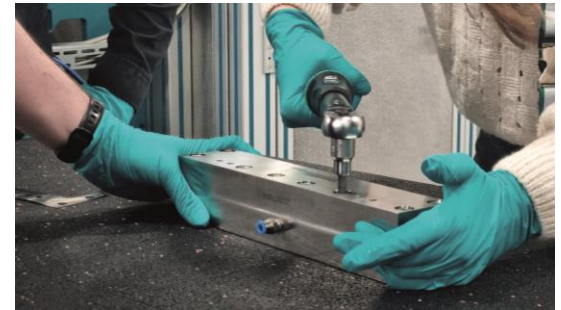
The Coatema Coating Symposium



Join the global network of coating experts at our annual event, where cutting-edge developments meet industry collaboration for next-level innovation.



The Coatema Slot Die Masterclass



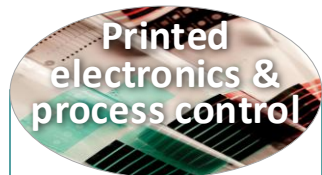
Master precision coating in our hands-on training program, led by industry specialists to optimize slot-die performance and product excellence.



R&D customers



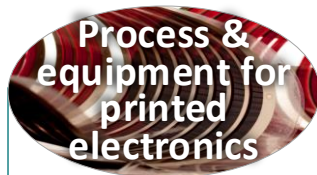
R&D projects overview 2022 – 2025



In-line and real-time digital nano-characterization for flexible organic electronics



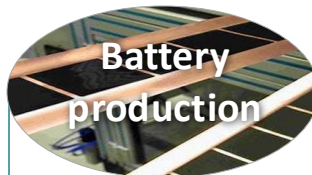
The NOUVEAU project will develop solid oxide cells (SOCs) with innovative La- and PMG-free electrode materials



R2R production line for OPV solar with integrated backend



Upscaling and development of EC based switchable films to decrease energy use in buildings



Implementation of laser drying processes for lithium-ion battery production



R2R process optimization for solid state batteries



Plasmonically enhanced photocatalysis for wastewater treatment



R2R nanostructuring of functional films



The WaterProof project aims at developing an electrochemical process that converts CO₂ emission



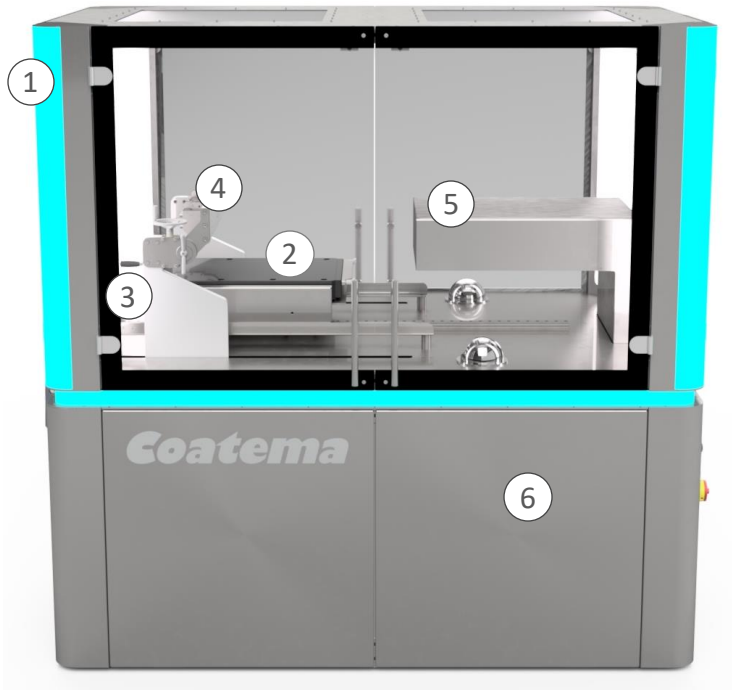
Creating an open-innovation testbed for sustainable packaging

2.

Coatema Easycoater



Overview of product features & options for the Easycoater



LAYOUT FEATURES (as shown in drawing)

1	Unique LED system shows the operating status
2	Vacuum table down to 1μ accuracy
3	Easy to access all parts of the unit
4	Application systems slot die/ flat screen/doctor blade
5	Electrical heated dryer, UV LED, infrared or NIR
6	Servo drives

Easycoater overview



Coating systems

- ✓ Slot die
- ✓ Doctor blade

Substrate fixation

- ✓ High precision vacuum
- ✓ Standard precision vacuum

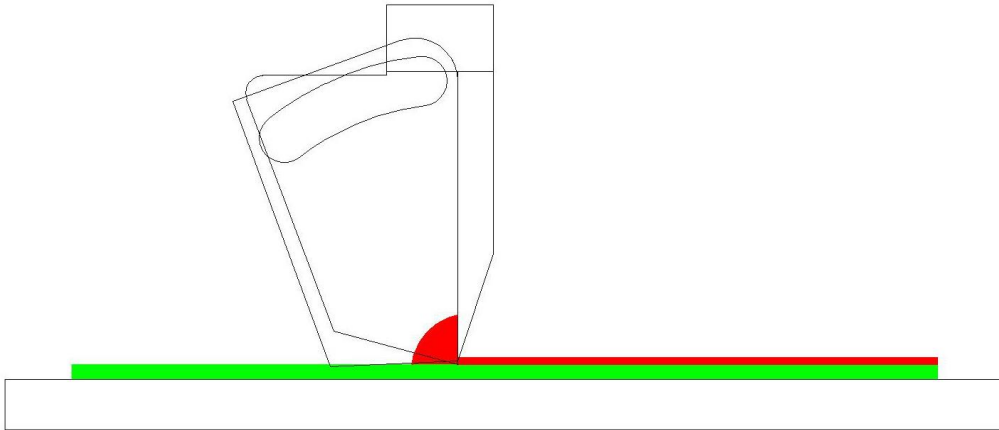
Printing system

- ✓ Screen printing
- ✓ Inkjet
- ✓ Gravure printing

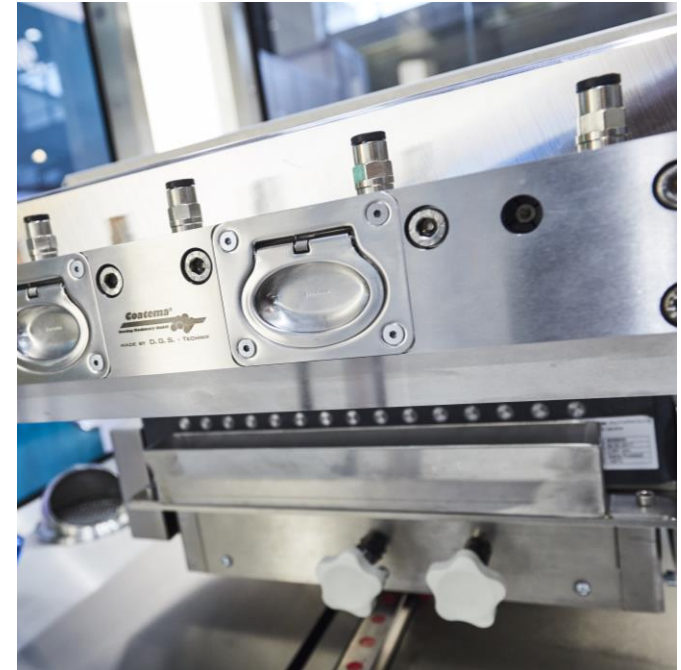
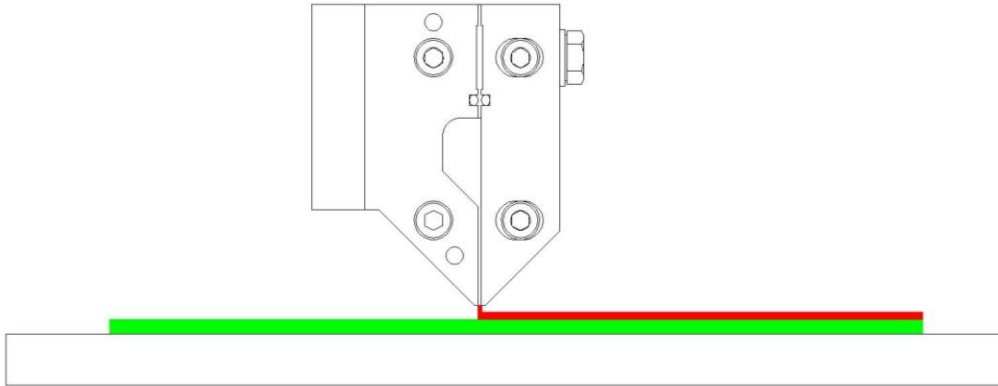
Heating / crosslinking

- ✓ Heated air
- ✓ Infrared
- ✓ UV

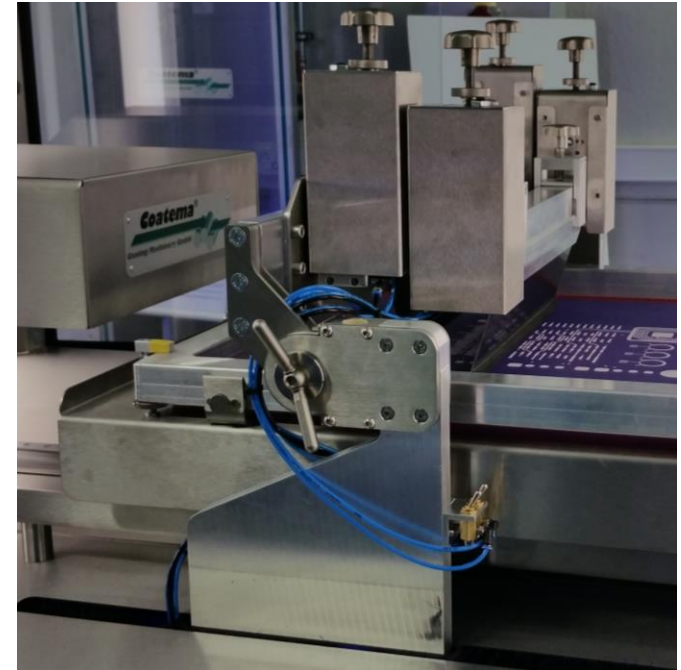
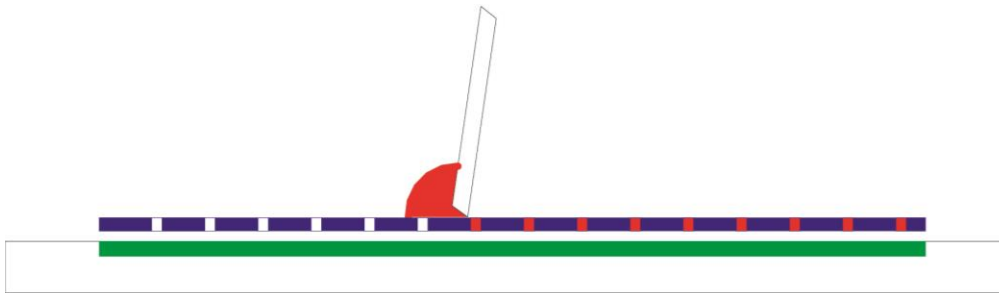
Application system – doctor blade



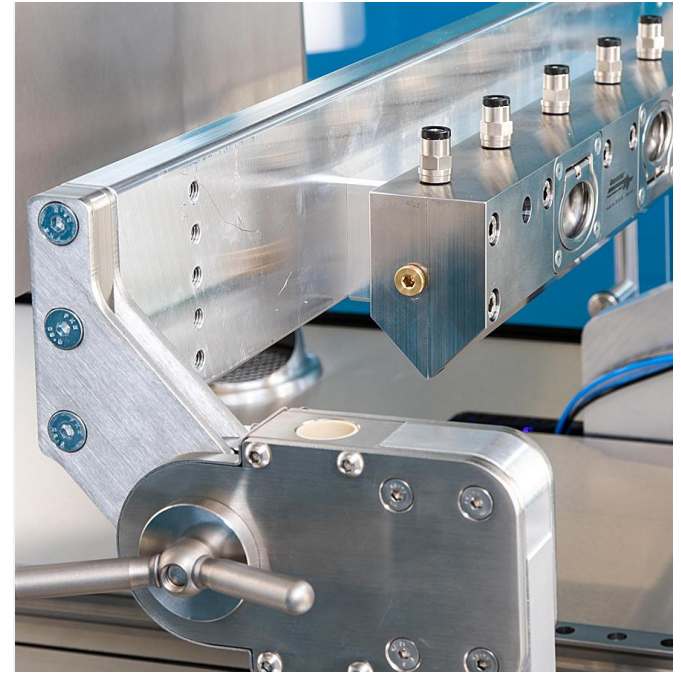
Application system – slot die



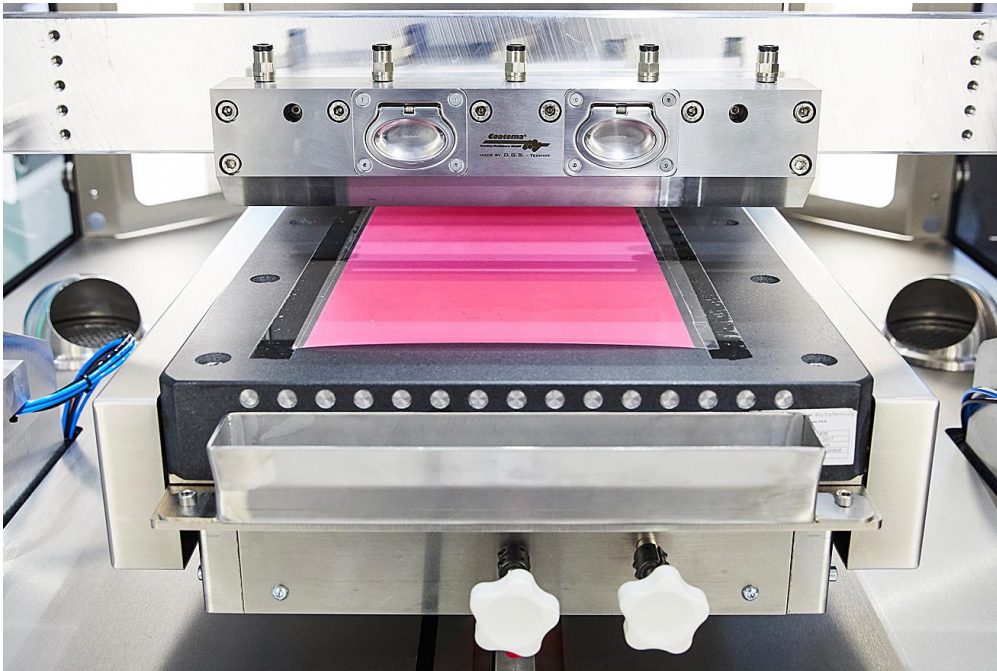
Application system – screen printing



Slot die and dryer



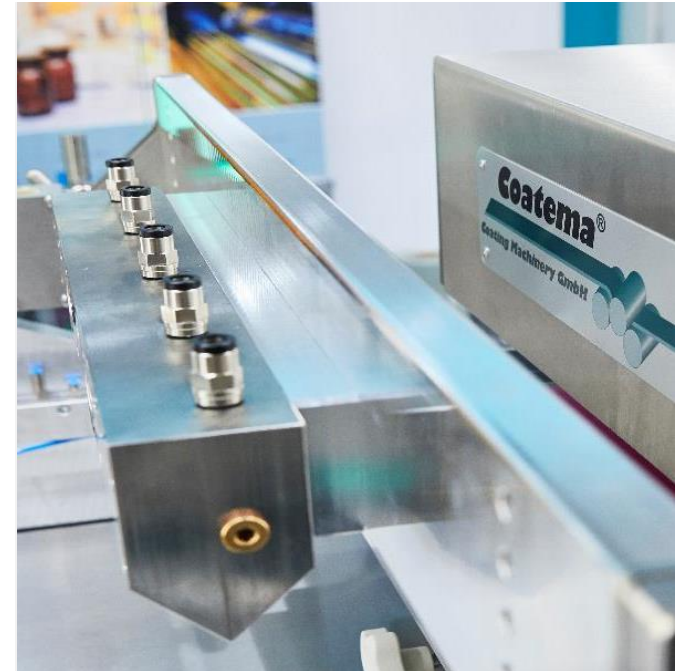
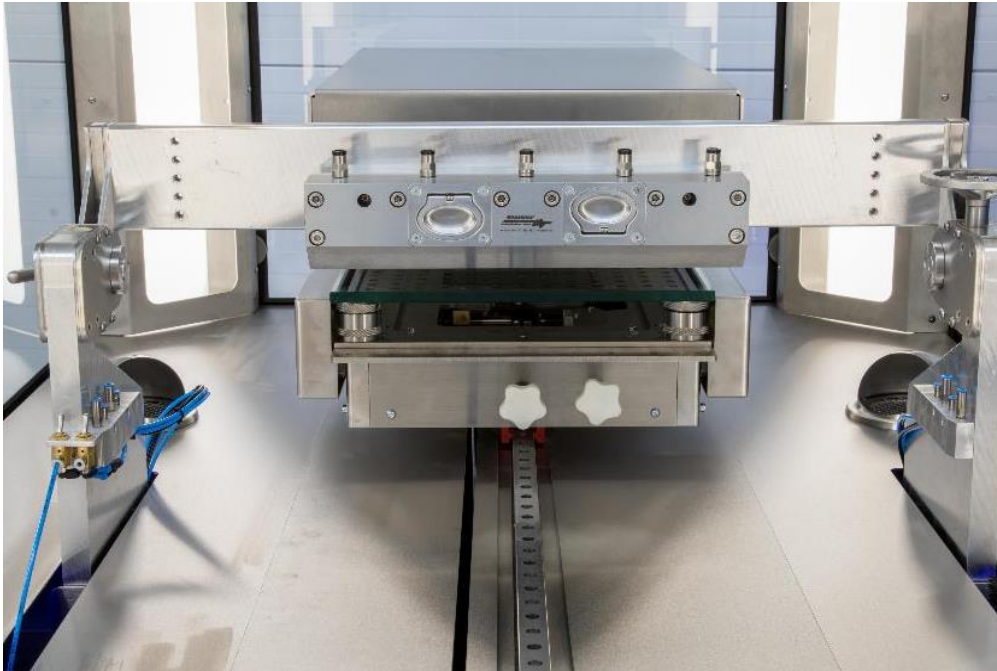
Slot die and vacuum table



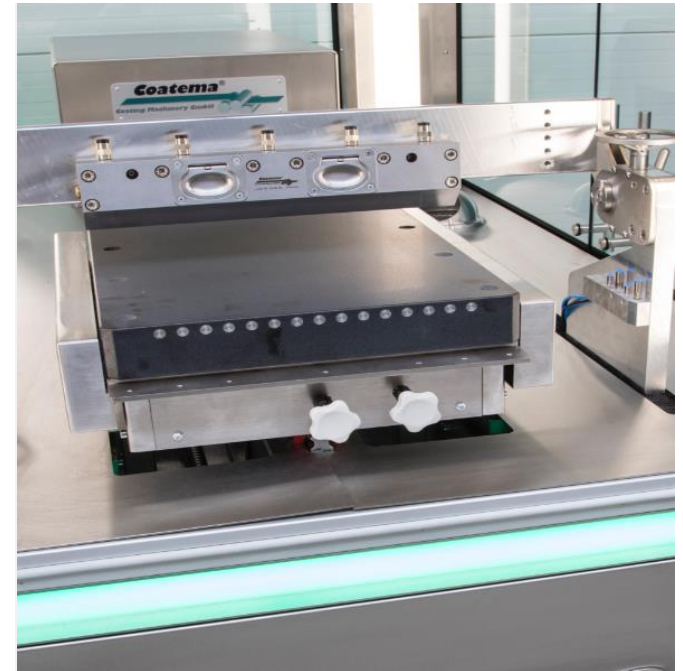
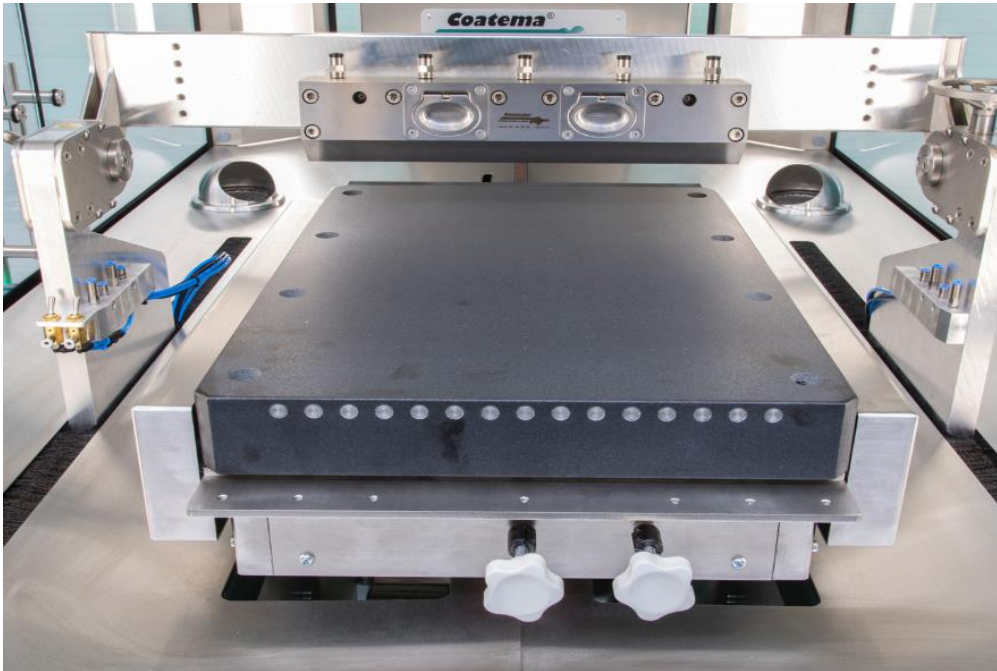
Slot die and vacuum table



Slot die and vacuum table



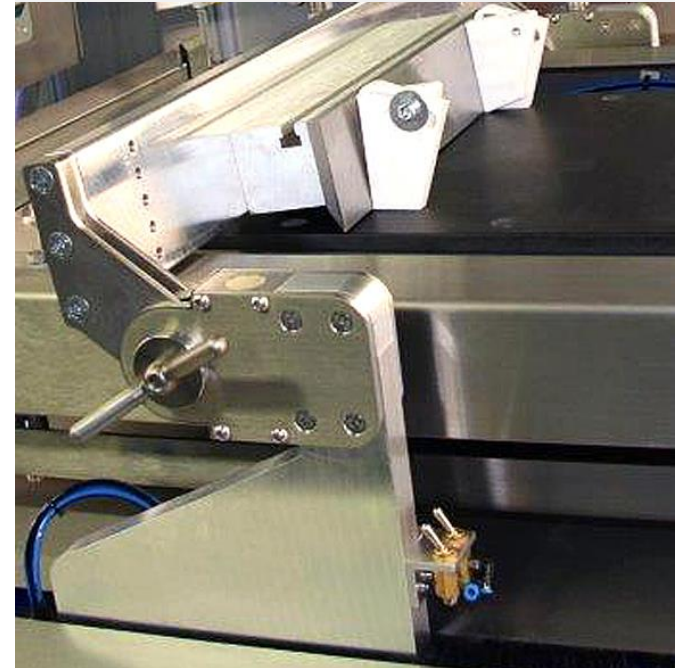
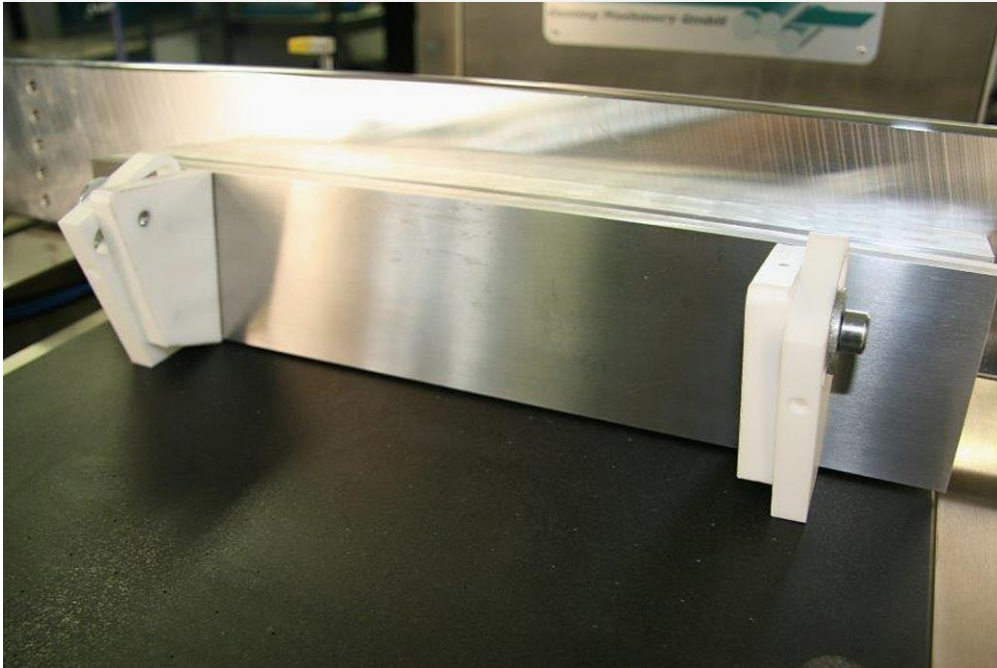
Slot die and vacuum table



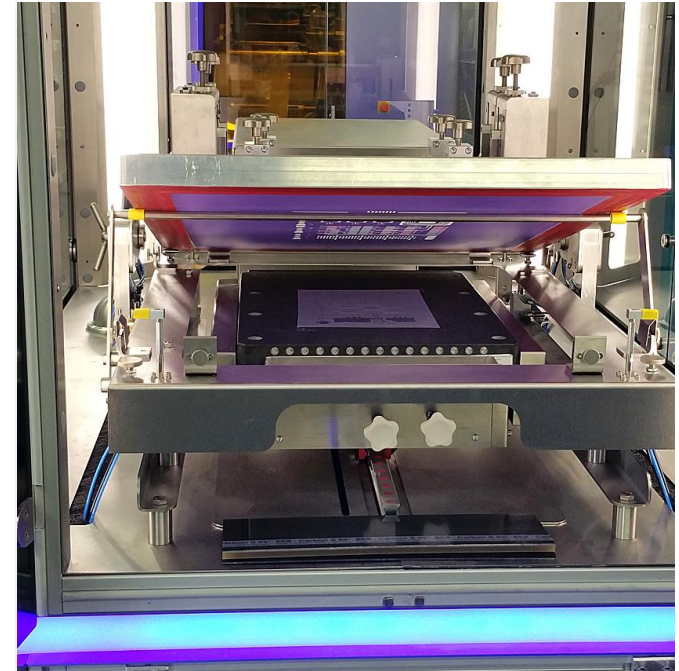
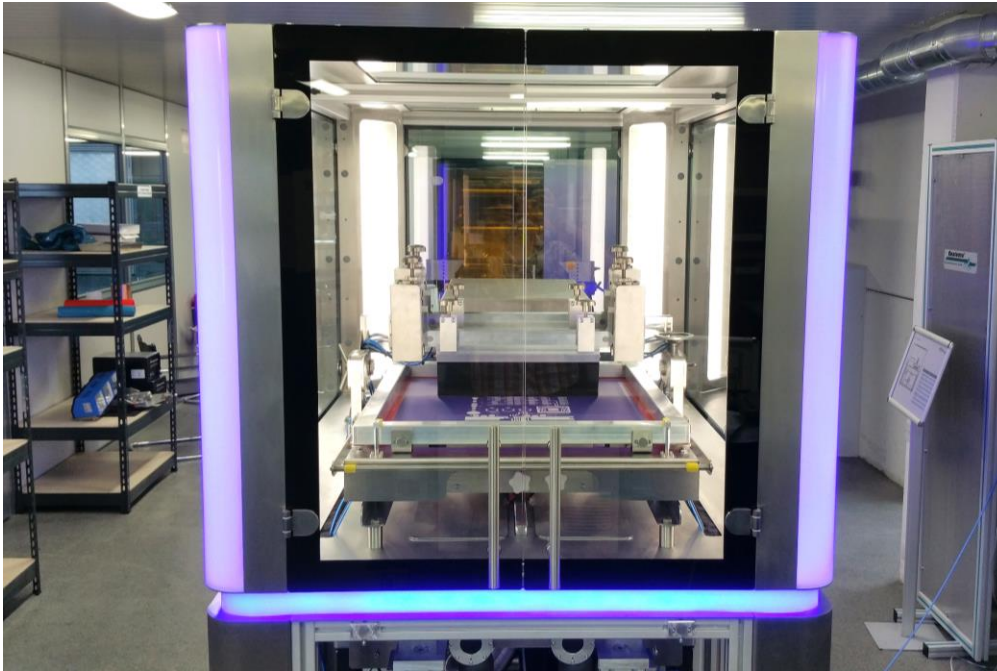
Doctor blade



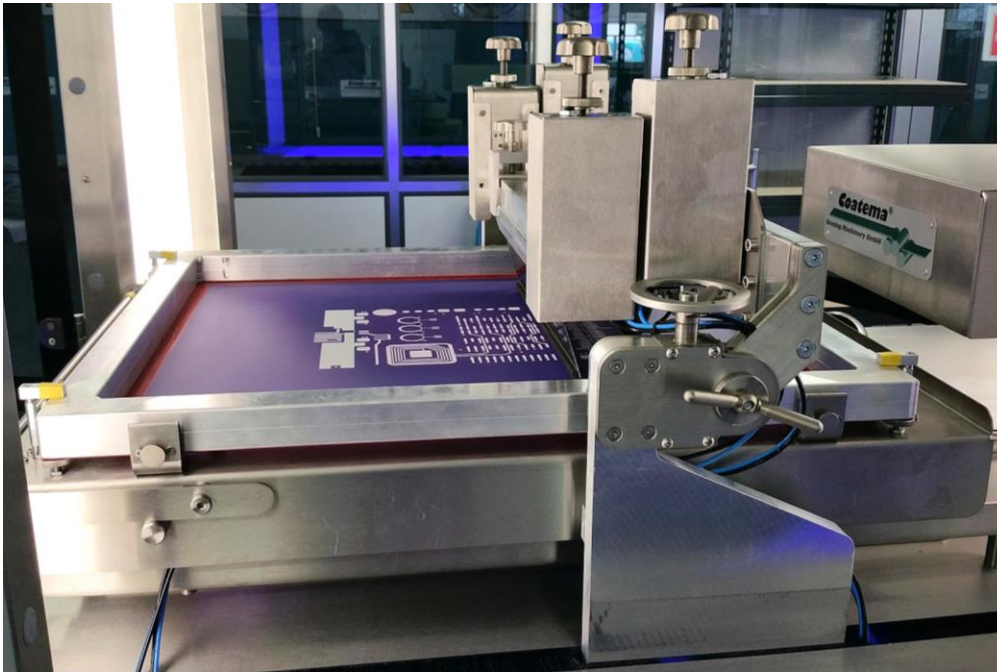
Doctor blade



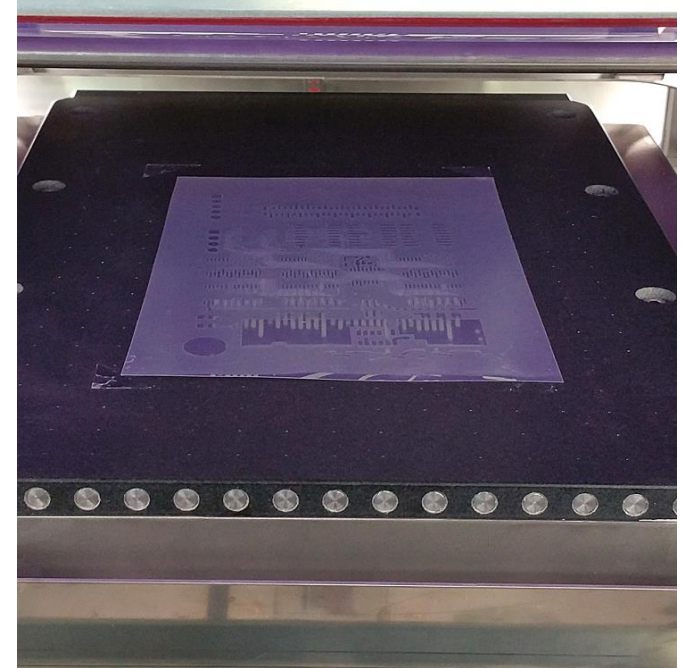
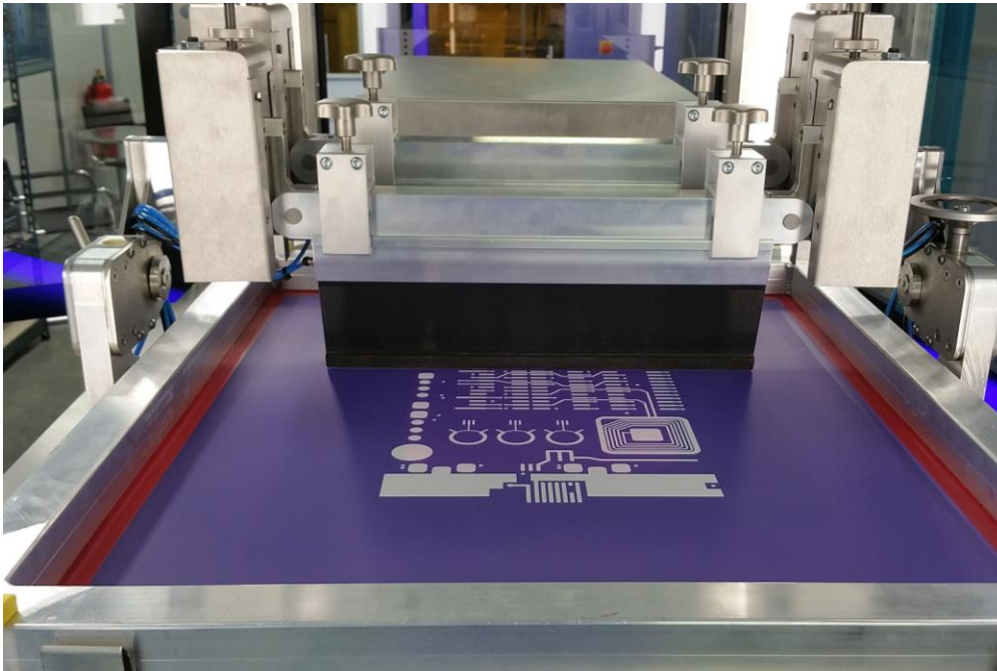
Flat screen printing



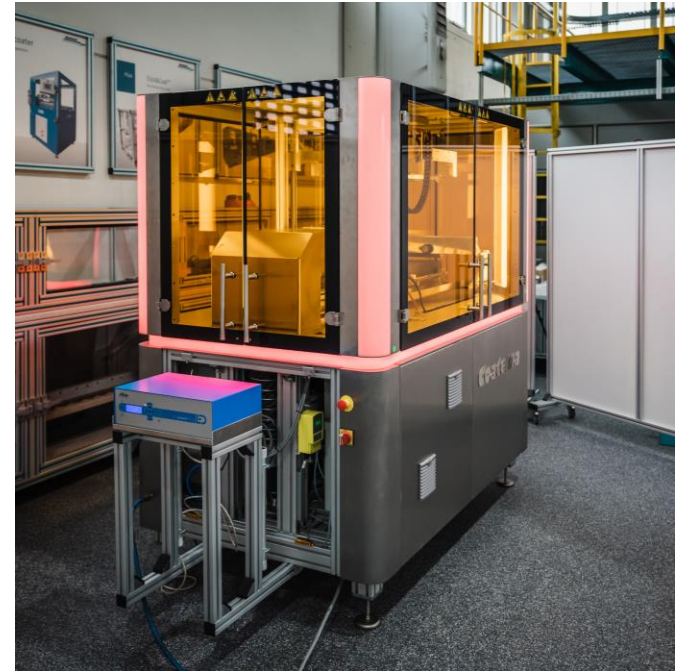
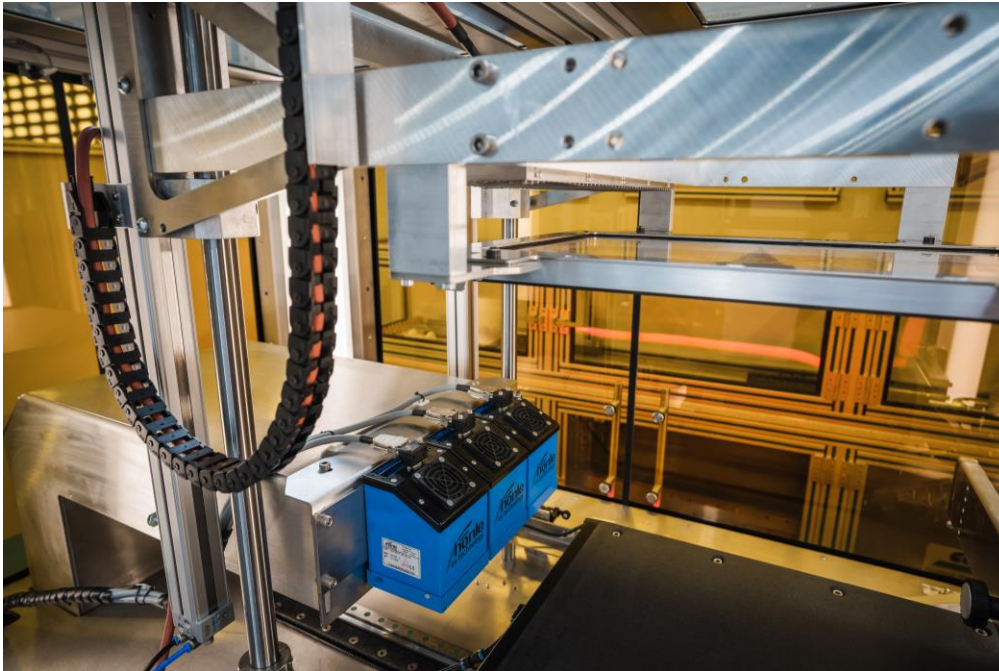
Flat screen printing



Flat screen printing



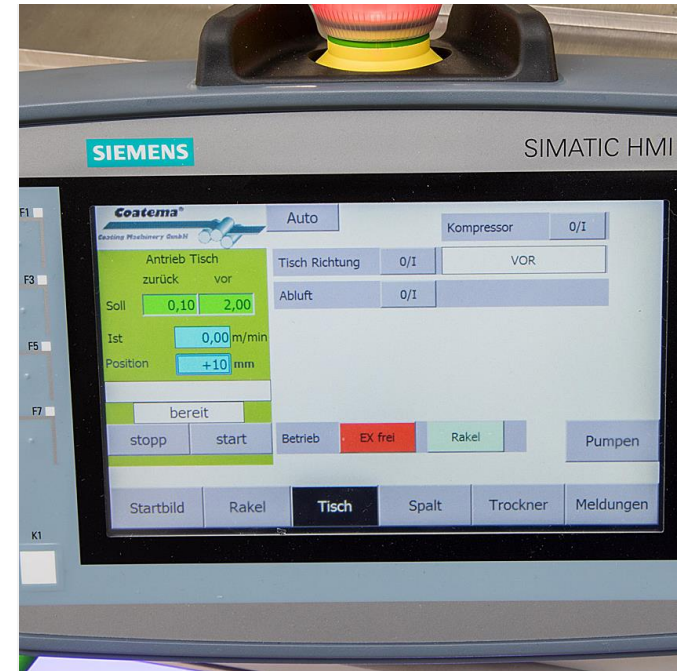
UV



Air roller

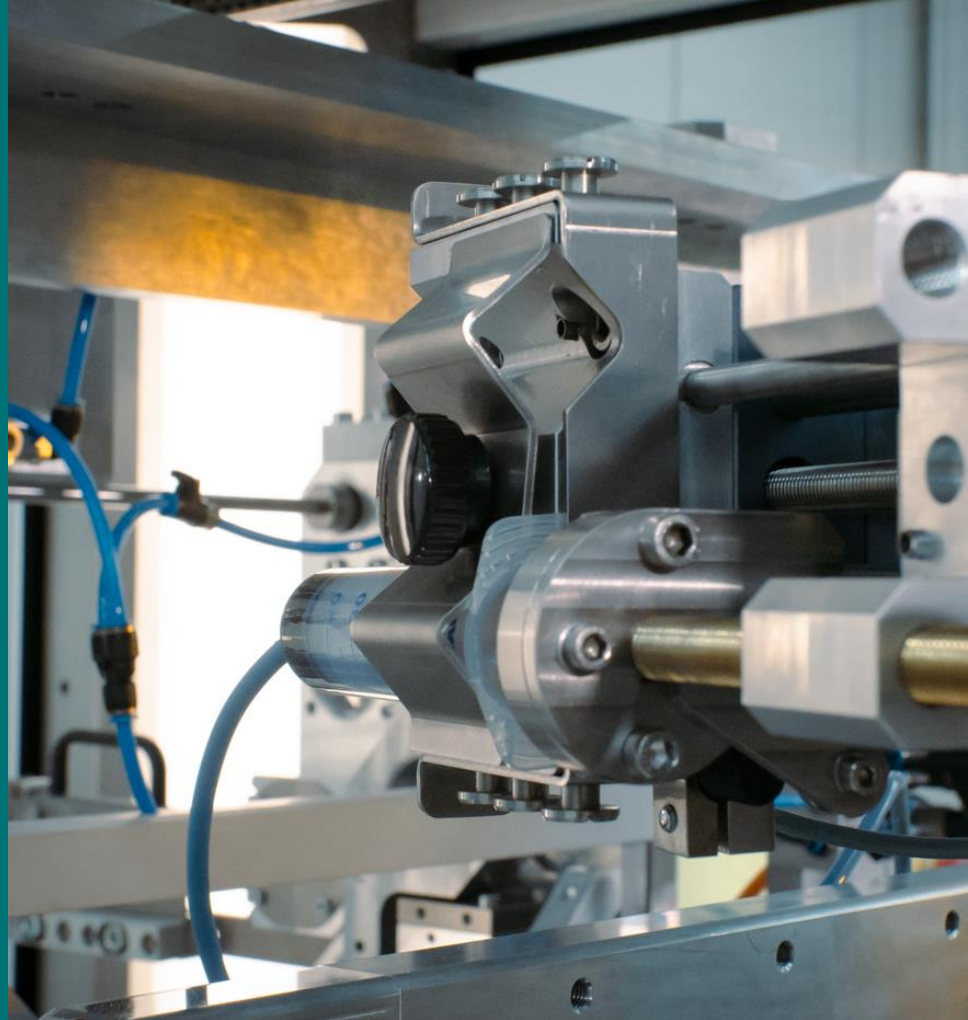


Easycoater – easy to use

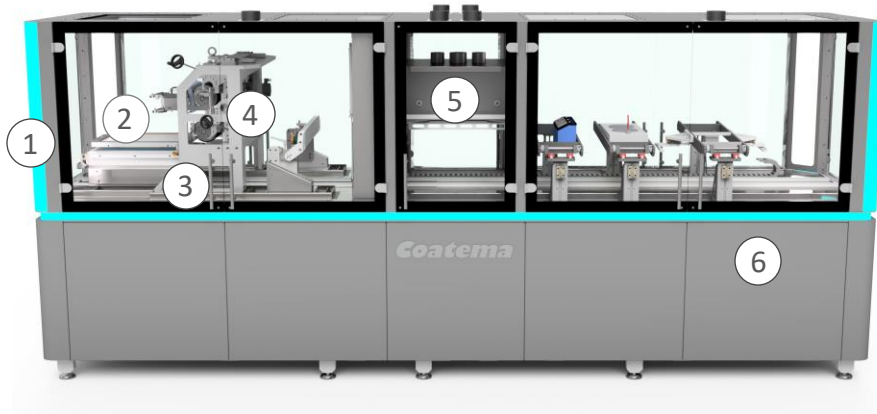


3.

Easycoater custom made



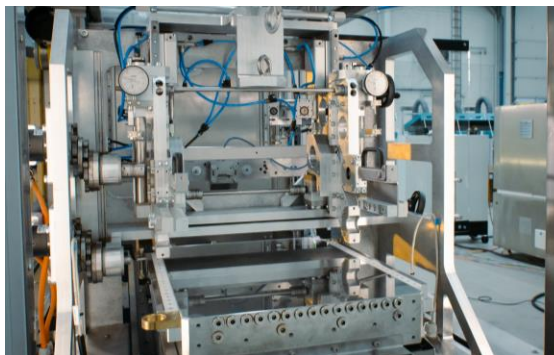
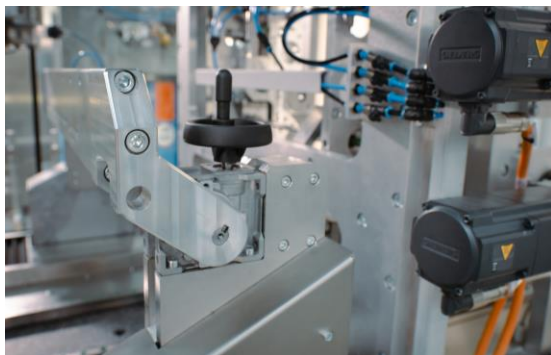
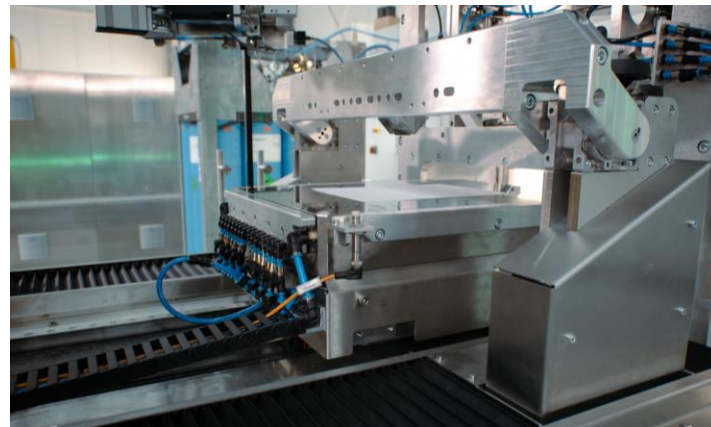
Overview of product features & options for the Easycoater



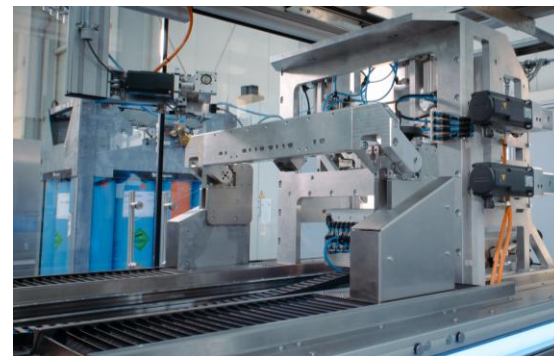
LAYOUT FEATURES (as shown in drawing)

1	Unique LED system shows the operating status
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Easycoater custom made



Easycoater custom made



Easycoater



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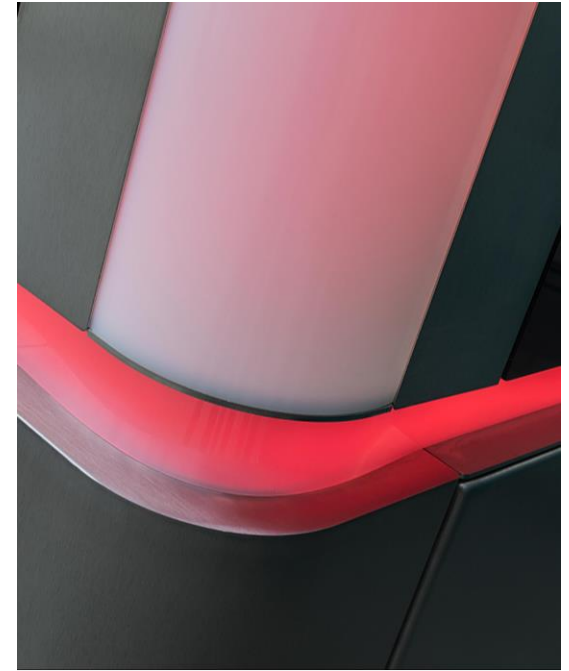


4.

Options & specifications



Options & specifications



Specifications



Knife



Vacuum
table



Inkjet



Slot die



Screen



Integrated
heating

Technical specifications in detail

Coating + printing options

- ✓ Slot die
- ✓ Doctor blade
- ✓ Screen printing
- ✓ Inkjet printing

Operating options

- ✓ Siemens S7 mobil PLC
- ✓ Remote service modem

Dimensions for A4 table size

- ✓ 1,920 x 1,220 x 1,920 mm (LxWxH)

Dryer

- ✓ Hot air standard – UV & IR optional
- ✓ Machine function indicators
- ✓ High-visibility LED display

Machine Base

- ✓ Stainless steel frame
- ✓ Granite core with 1.5μ surface precision
- ✓ G0 / Schneeberger linear guideways

Vacuum table

- ✓ Vacuum table made of granite with 1μ surface precision
- ✓ Vacuum holes 0.9 mm in diameter
- ✓ Vacuum holes 20x20 raster array
- ✓ Vacuum table adjustable in X-Y direction
- ✓ Available in A3, A2 size and custom made size

4.

Summary



The customer benefits

- ✓ The Coatema Easycoater has been an industry standard for more than 20 years
- ✓ The Easycoater III version is designed for new markets such as printed electronics,
- ✓ medical applications, batteries, renewable energy and flexible displays
- ✓ A compact coater and printer combined
- ✓ Automated and motor driven application systems
- ✓ Minimal amount of materials required

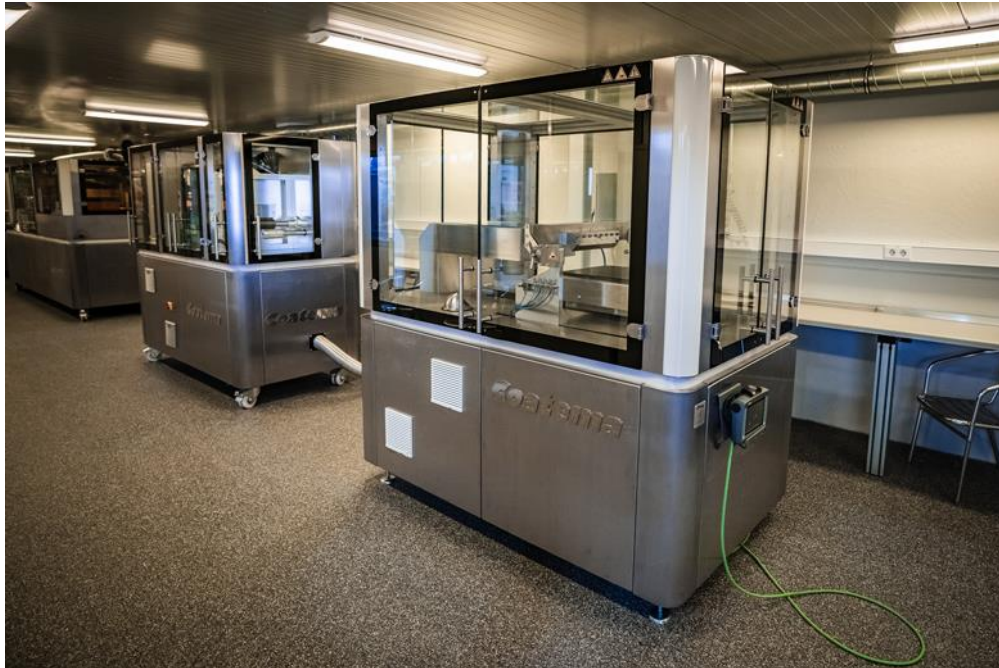
Easycoater



Press Button to
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Do not hesitate to contact us!



The Easycoater is part of the Coatema lab and pilot line platform strategy.

Our R&D centre is worldwide the most versatile centre for coating, printing and laminating.

Anything missing?

Let us know and we will make it happen!

Sales department:
sales@coatema.de

Download
brochures & presentations



Coatema

Thank you

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