



Coatema company presentation

05/05/25

MEMBER OF ATH

Coatema

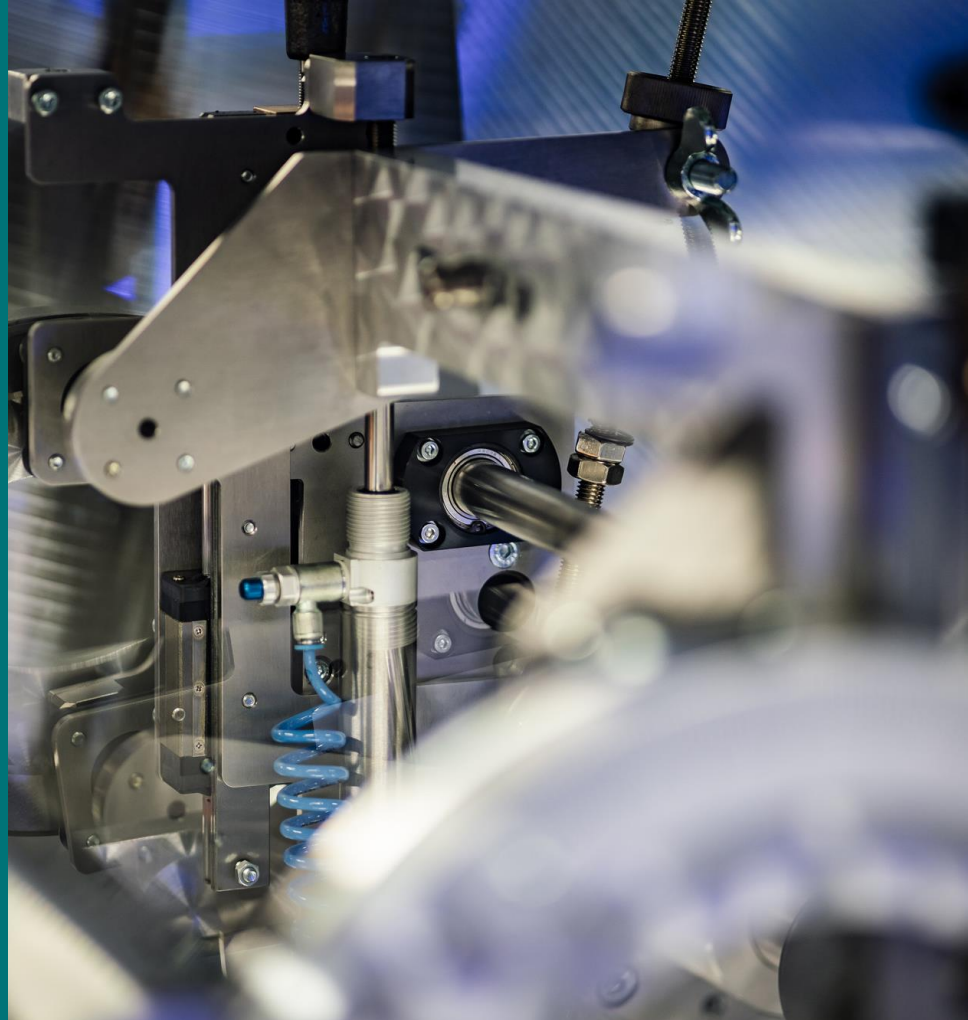
Agenda

1. Introduction
2. Our markets
3. Equipment
4. R&D centre
5. Contact

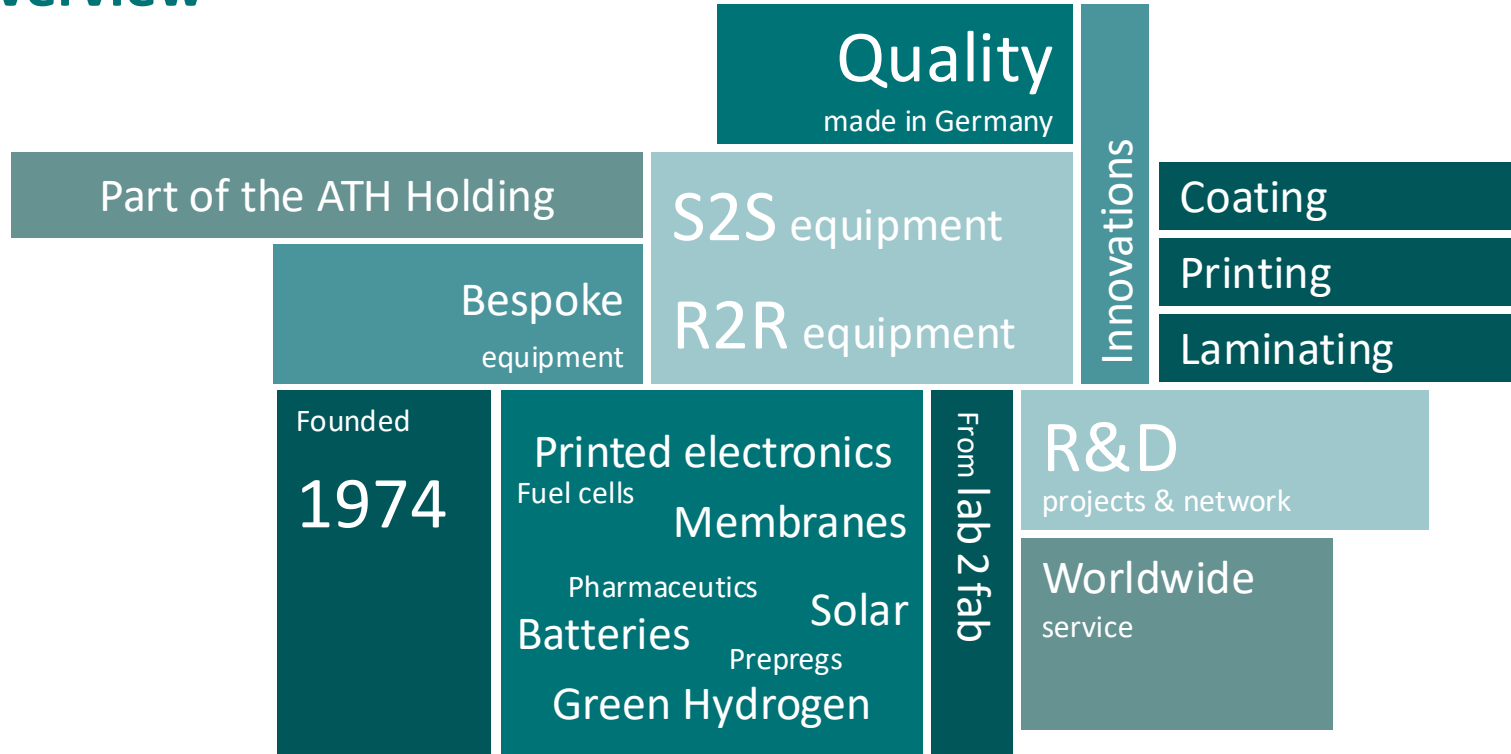


1.

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 lab2fab



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

2.

Our markets



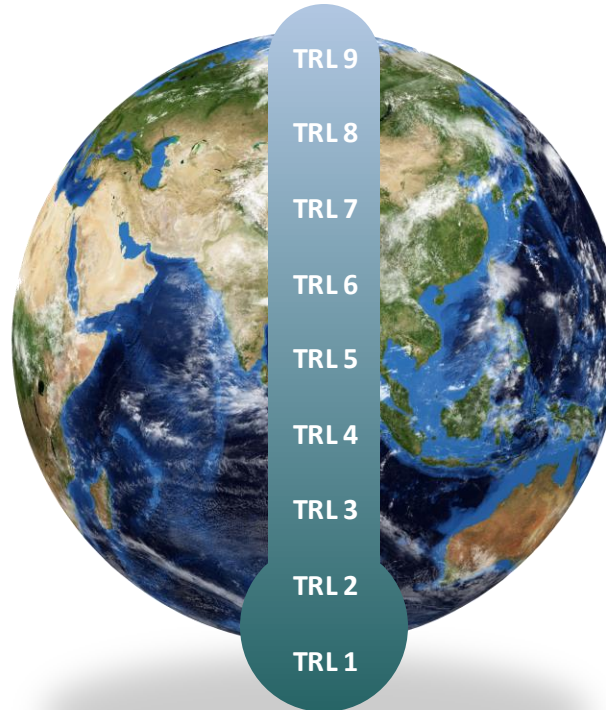
Our markets – Coatema focus areas

Green Hydrogen

Fuel cells

Batteries

Solar



Sustainability

Digital fabrication

Printed
electronics

The next thing

3.

Equipment



Today's equipment for S2S

Coatema2go – S2S



#smallbutmighty



#everythingyouneed



#sizecounts

Today's equipment for S2S

Sheet-to-sheet – S2S

Lab



Easycoater

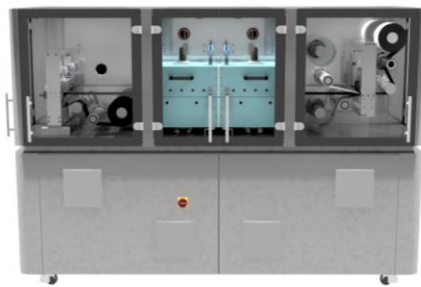


Easycoater Evolution

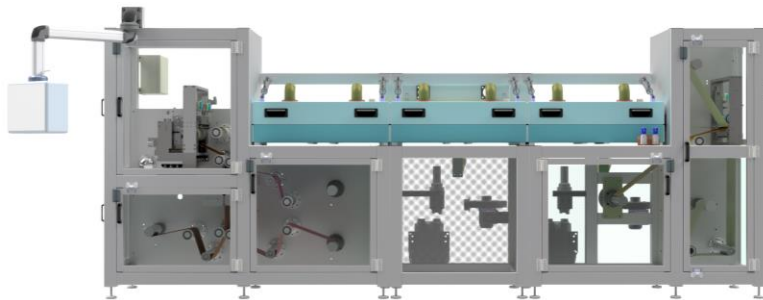
Today's equipment for lab scale R2R

Roll-to-roll – R2R lab systems

Lab



Test Solution R2R



Basecoater R2R

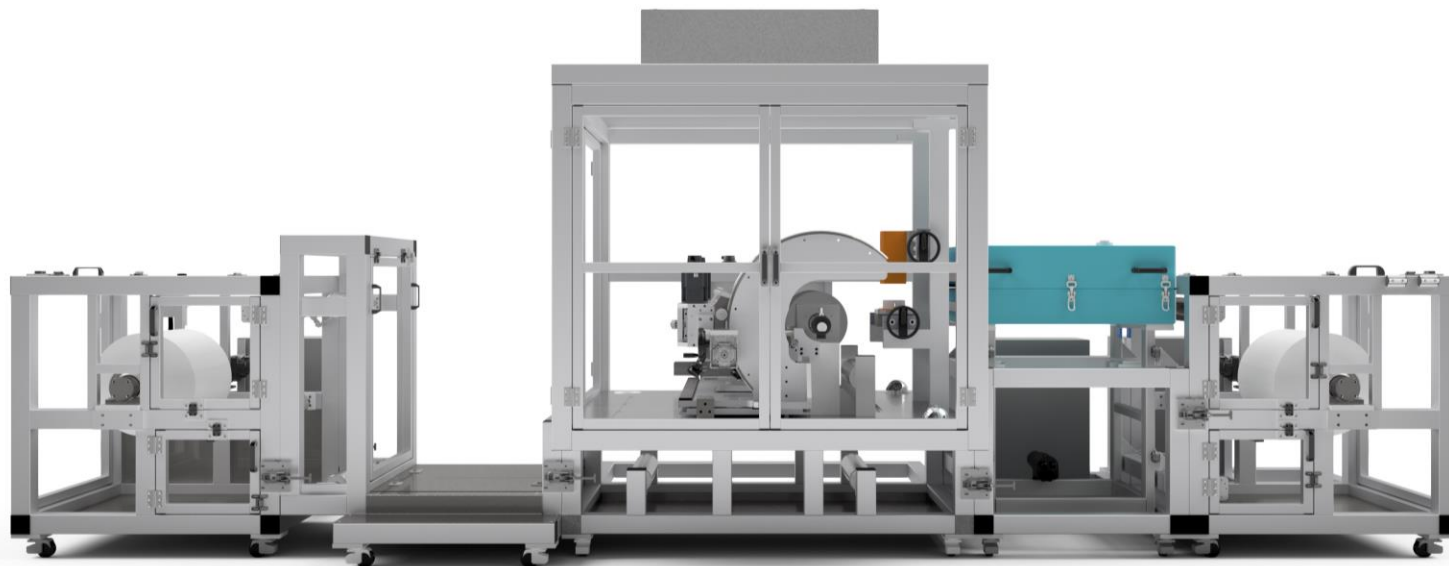


Smartcoater R2R

Today's equipment for pilot scale R2R

The Click&Coat™

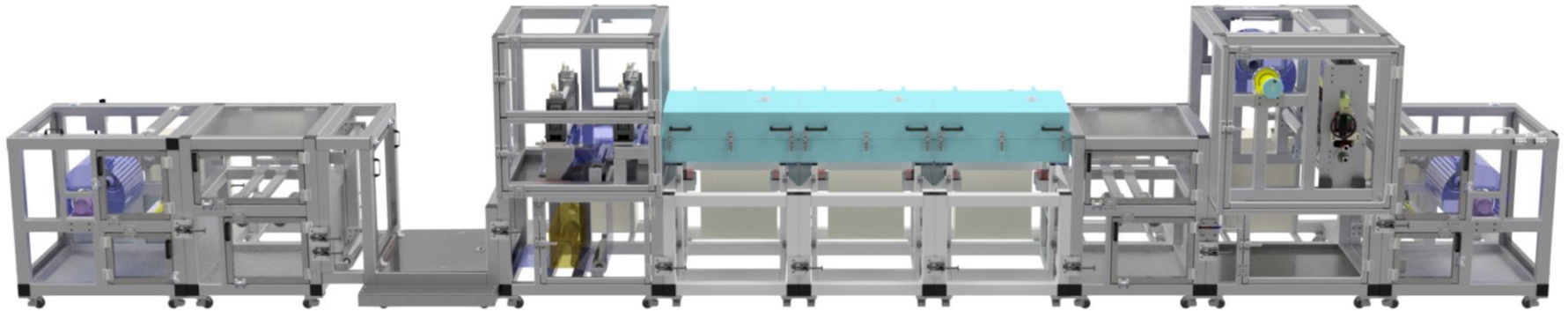
Pilot



Today's equipment for pilot scale R2R

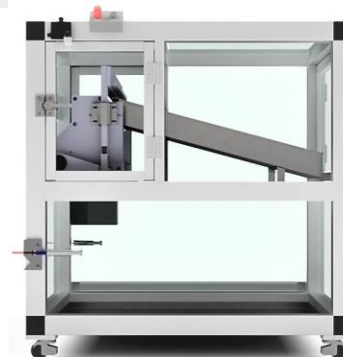
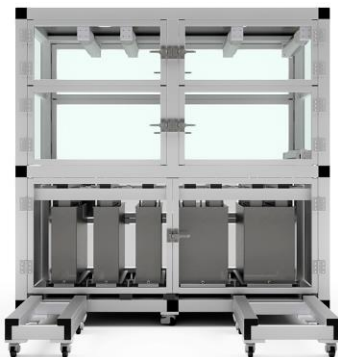
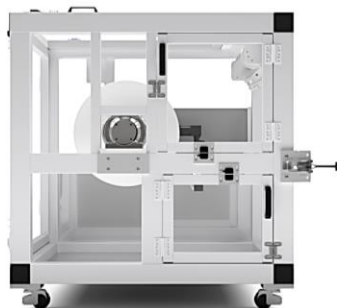
The Click&Coat™

Pilot



Today's equipment for pilot scale R2R

The Click&Coat™ single modules



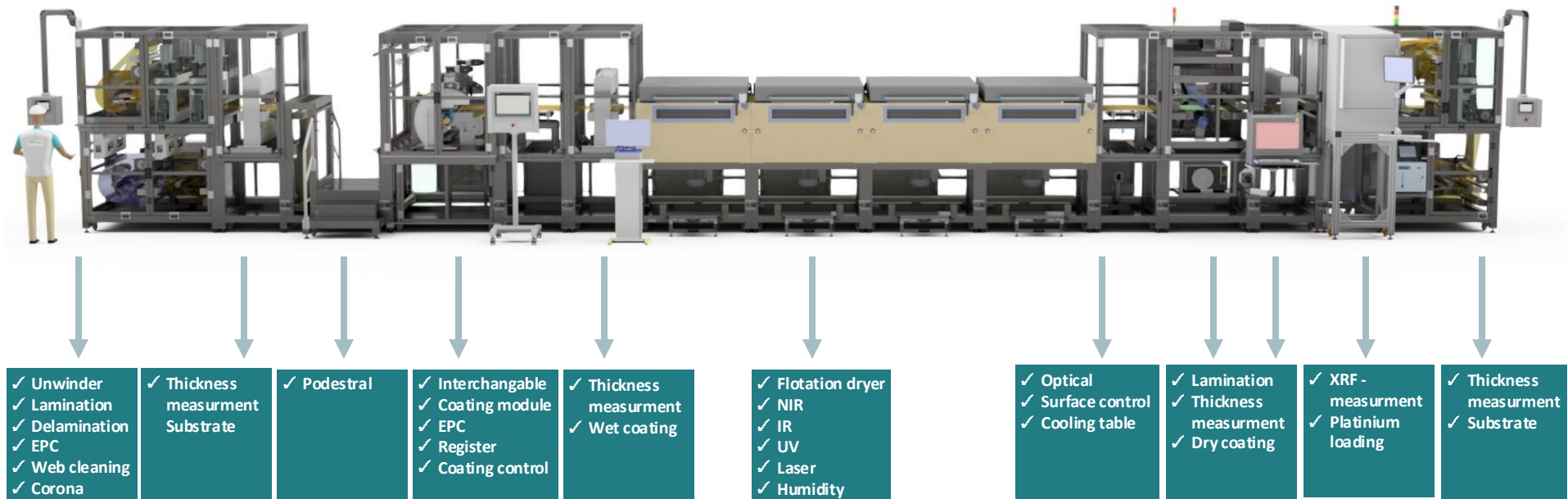
Today's equipment for production

The Click&Coat™ in production scale



Today's equipment for production

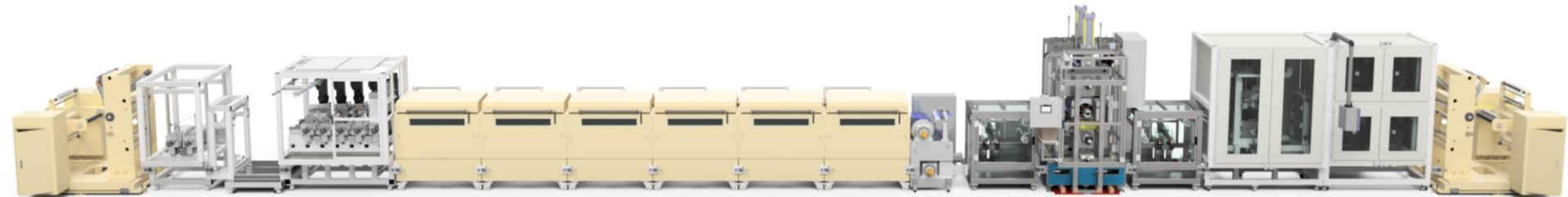
The modular Click&Coat™ system



Today's equipment for production

The Click&Coat™ in production scale in the R&D centre

Production

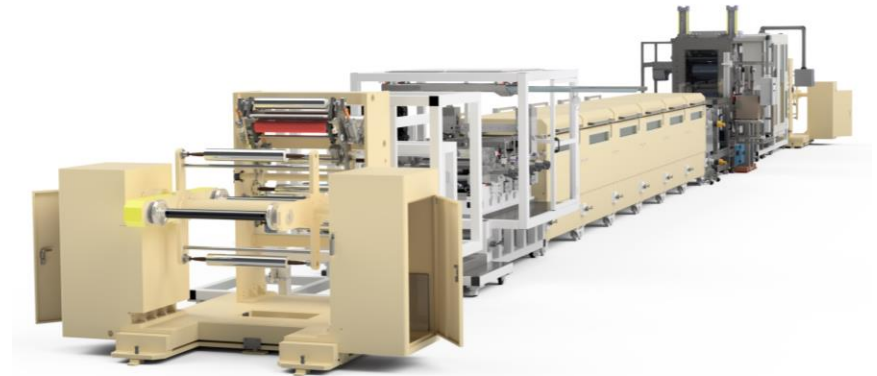


Production lines

Production



Production lines



Production lines

Bespoke equipments

Custom
made



Printed oleds



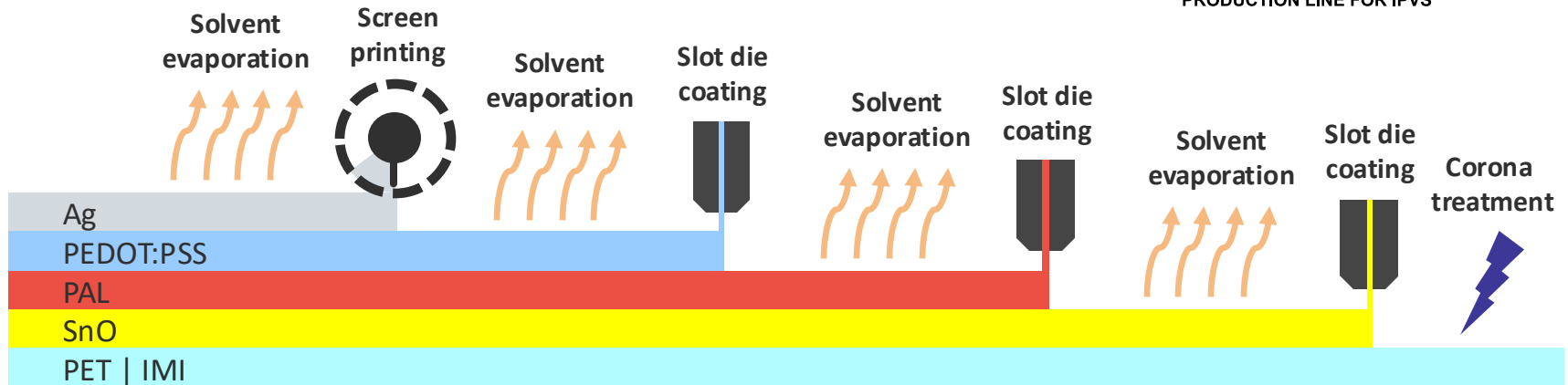
Optical film



Composite fibres

Today's equipment for production

R2R production line for OPV



4.

R&D centre



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



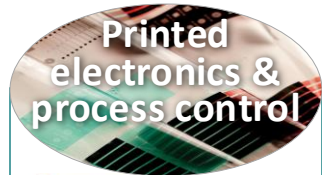
Public funded research projects know-how

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

R&D network



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



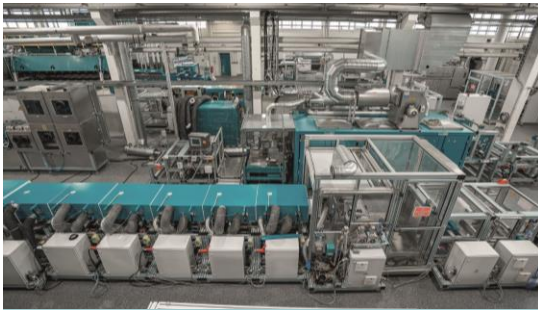
The WaterProof project aims at developing an electrochemical process that converts CO₂ emission



Creating an open-innovation testbed for sustainable packaging

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.



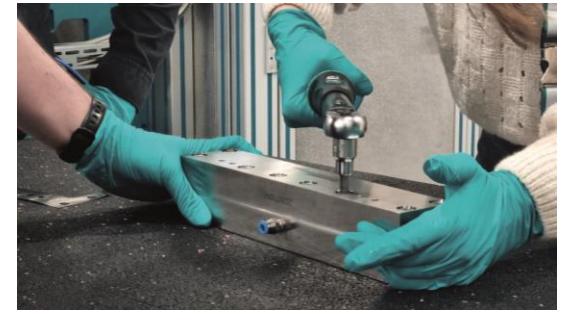
The Coatema Coating Symposium



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.

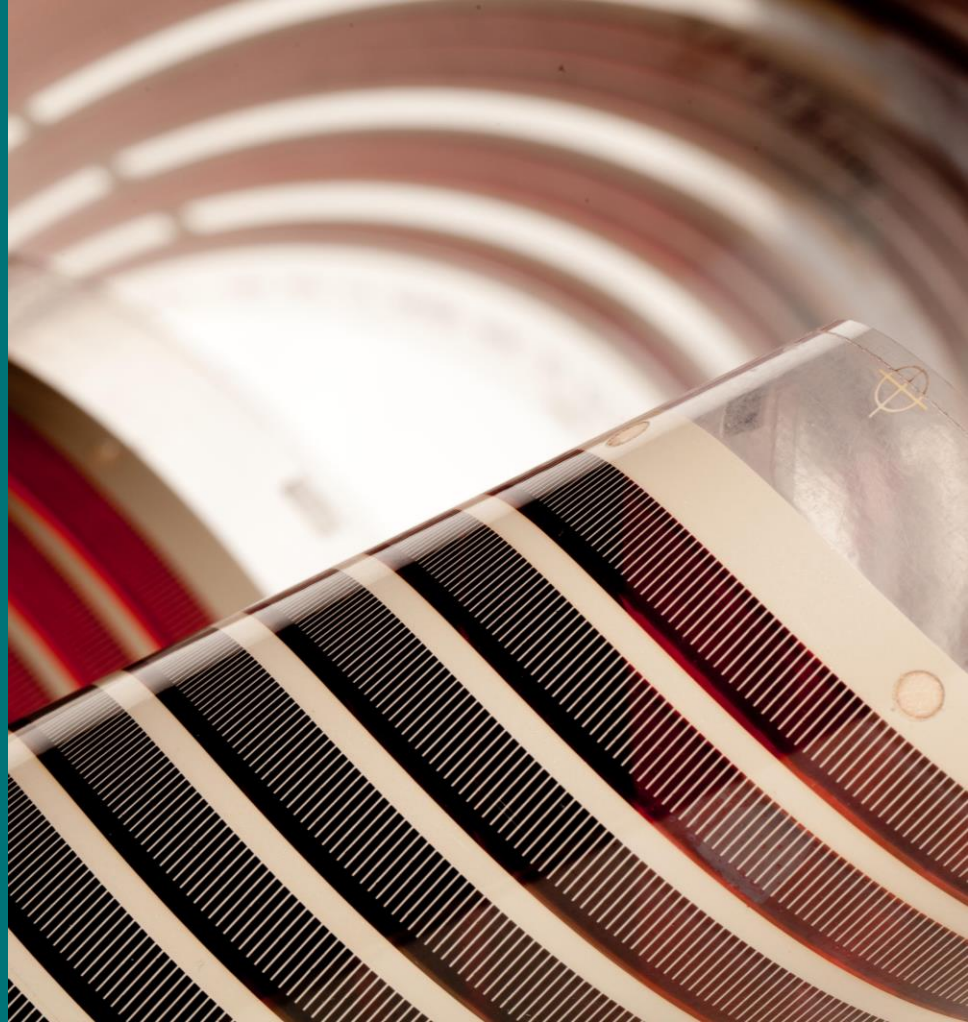


Coatema coating symposium for 23 years



5.

Contact



Do not hesitate to contact us!



Anything missing?

Let us know and we will make it happen!

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

Sales department:
sales@coatema.de

**Download
brochures & presentations**



Coatema

Thank you

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