

# **Coatema company presentation**

28/07/25

MEMBER OF ATH

### Coatema

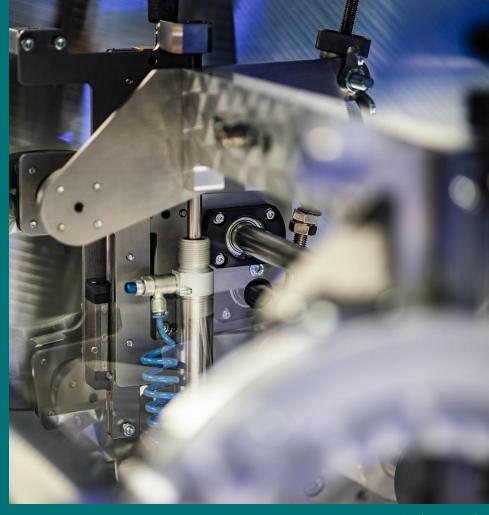
### Agenda

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



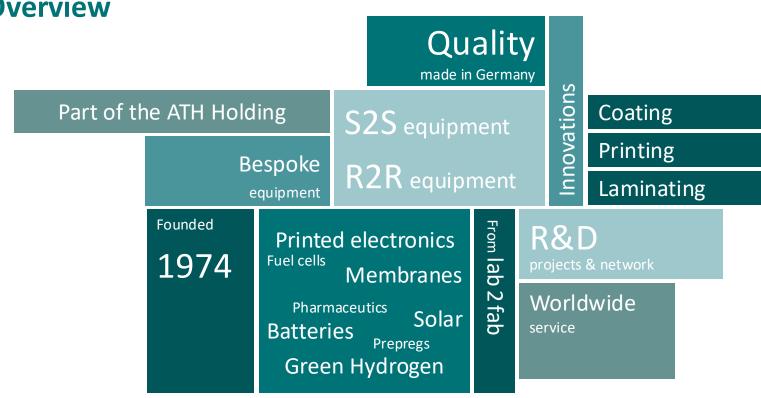
1.

Introduction





#### **Overview**





#### **Group of companies**



ALTONAER TECHNOLOGIE HOLDING



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

### **DRYTEC**

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



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

#### Introduction

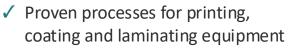


Coatema equipment platform strategy for lab2fab



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





- ✓ Highest-quality pilot lines enable stable pilot production and reduce cost of operation
- Scaling laboratory equipment to enable pilot production

✓ Full-scale production lines

**Production** 

✓ 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





#### Sheet-to-sheet - S2S





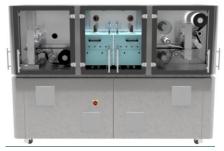
Easycoater



**Easycoater Evolution** 

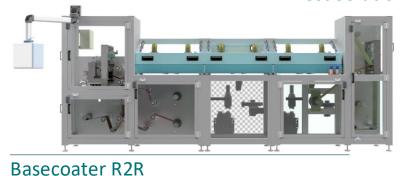


#### Roll-to-roll – R2R lab systems



Lab

Test Solution R2R



Smartcoater R2R

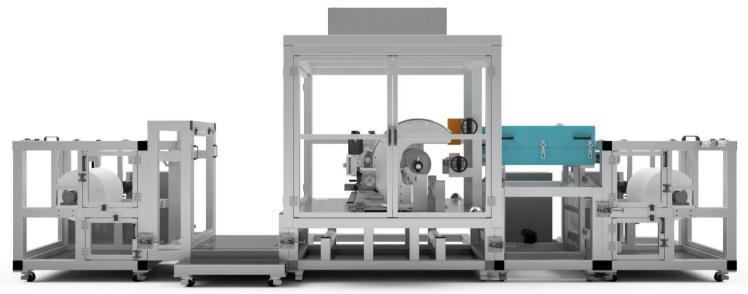


#### Today's equipment for pilot scale R2R



#### The Click&Coat<sup>™</sup>



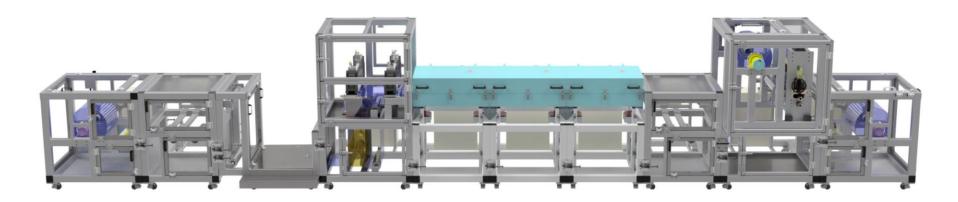


#### Today's equipment for pilot scale R2R



#### The Click&Coat<sup>™</sup>







### The Click&Coat<sup>TM</sup> single modules



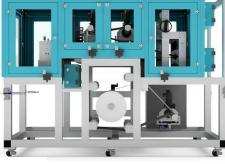














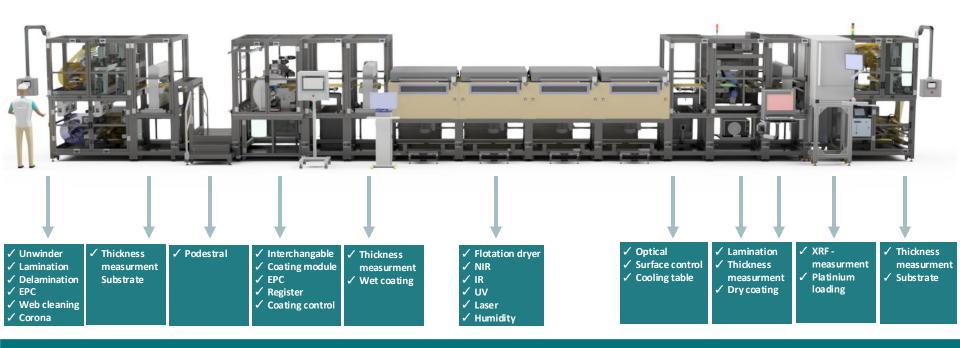


### The Click&Coat<sup>TM</sup> in production scale





### The modular Click&Coat<sup>™</sup> system





### The Click&Coat<sup>TM</sup> in production scale in the R&D centre







#### **Production lines**





**Production lines** 



**Production lines** 



### **Bespoke equipment**





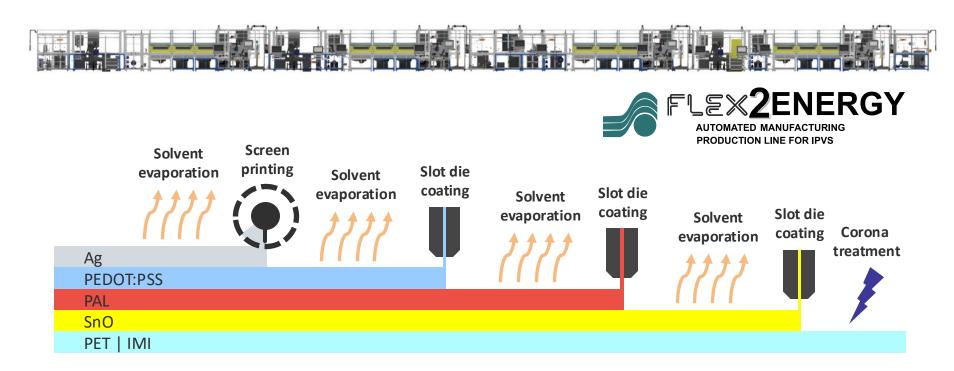




Optical film Composite fibres



#### **R2R** production line for **OPV**



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



#### Education

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



#### Development of custom-made design for equipment

Prototyping

✓ Proof of concept



#### Public funded research projects know-how

- ✓ German funded
- ✓ Global 2+2 projects

✓ Horizon 2020

/ B2B projects

28/07/25



#### **R&D** network



































Georgia Institute of Technology













Hochschule Niederrhein University of Applied Sciences



























**Fraunhofer** 











**Fraunhofer** 



Hochschule Reutlingen















Fraunhofer IVV

**PYCO** 



#### R&D projects overview 2022 – 2025



I REAL NANO

In-line and real-time digital nanocharacterization for flexible organic electronics



**NOUVEAU** 

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 CO<sub>2</sub> emission



Creating an openinnovation 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 24 years













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The international Coating Symposium has been a fixed event in the coating and printing industry since the year 2000.

Speakers from industry, institutes and R&D will present the latest developments around Coating, Printing and Laminating and we will show trials in our R&D centre on site in Dormagen.

We extended the \*\*\* 10% discount \*\*\* on the registration fee until August 29<sup>th</sup>! The not-to-be-missed event for practitioners and opinion leaders in the coating technology field.

Register now! We look forward to seeing you!

Register now!

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**Contact** 



#### Coatema research & development centre



#### 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 broschures & presentations





### Thank you

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