

Coatema company presentation

Coatema

12/08/2024

MEMBER OF ATH

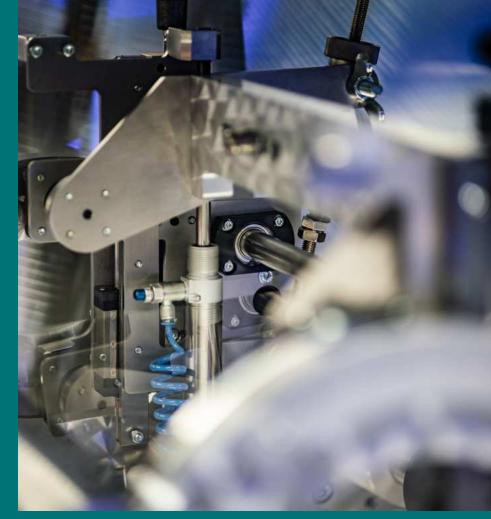
Agenda

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

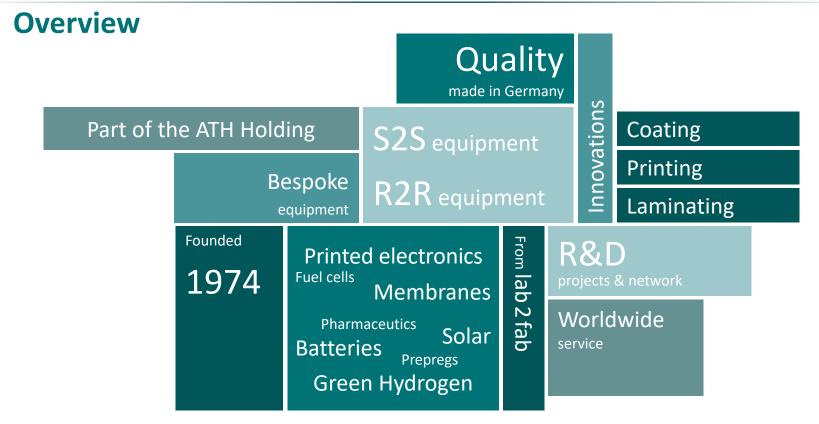


1.

Introduction

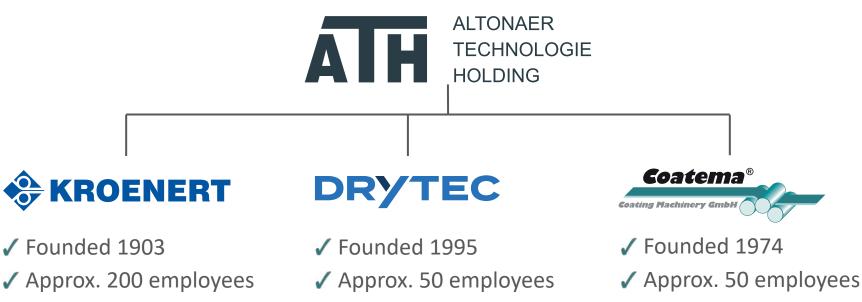








Group of companies



🗸 Located in Norderstedt

Located in Hamburg

Located in Dormagen

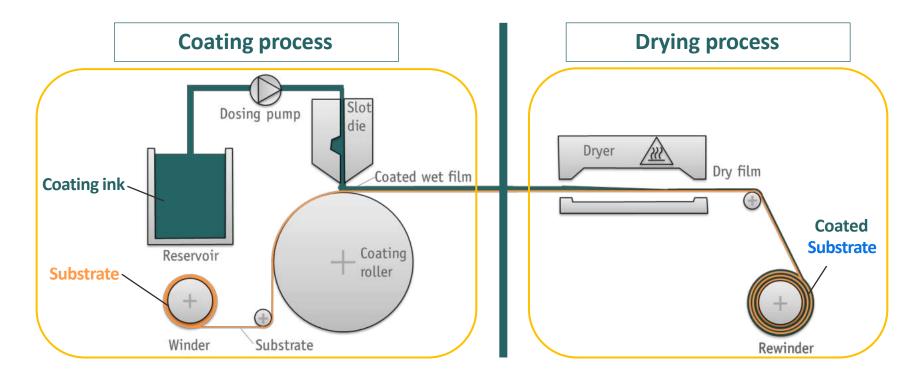


Represented worldwide





Upscaling – R2R lab scale production into fab





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

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

Full-scale production lines

Production

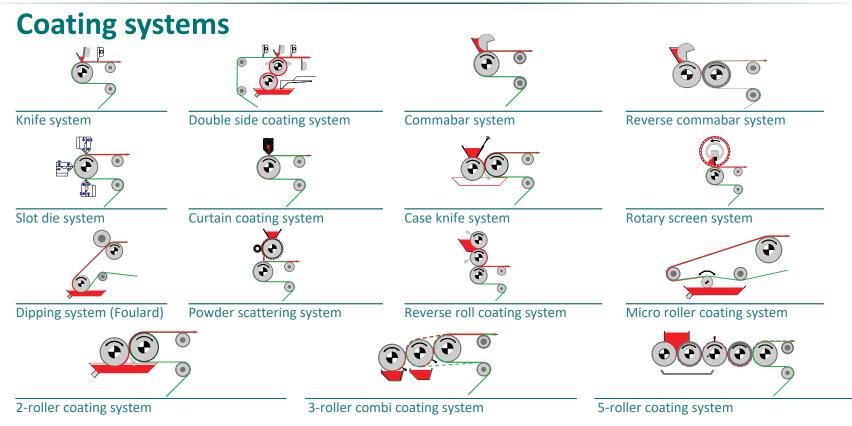
 Optimize the manufacturing process, including streamlining assembly, reducing material waste, and optimizing the carbon footprint



Coating parameters

Coating chemistry	Coating processes	Process control	Drying
 Rheology Viscosity Viscoelasticity Type of solvents Solid content Van der Waals force Sheer ratio Adhesion/Cohesion 	 Coating systems Single or multilayer coatings Direct coatings Transfer (indirect) coatings Substrate speed Layer thickness Coating accuracy 	 Process layout Tension control system Material guiding system Inline parameter control Quality control 	 Convection drying Contact drying Infrared drying Sintering NIR High frequency UV crosslinking systems
Substrate	Pretreatment	Environment	Finishing
 Surface tension Dimension stability Surface structure Contact angle 	CoronaPlasmaCleaning	HumidityTemperatureInert conditions	CalendaringEmbossingSlitting

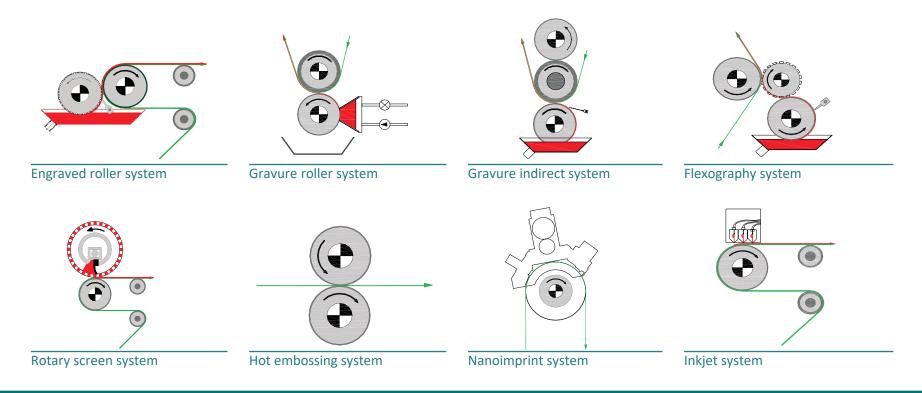




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Printing systems



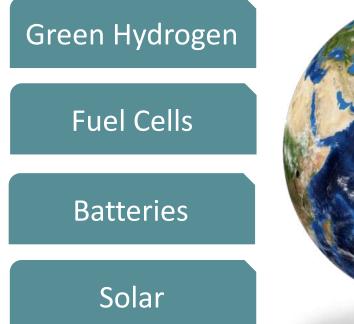
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Coatema focus areas





Sustainability

Digital fabrication

Printed electronics

The next thing



14

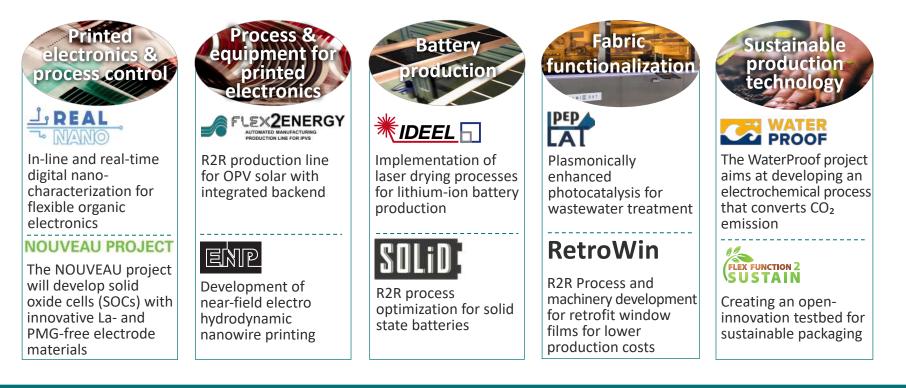
R&D centre – our customers



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R&D projects overview 2022 – 2024



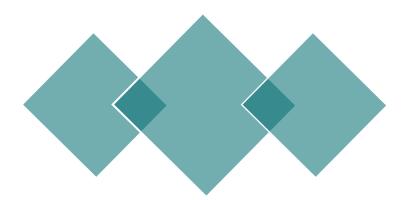


Flex2Energy project





European Commission







Flex2Energy project – Consortium partners

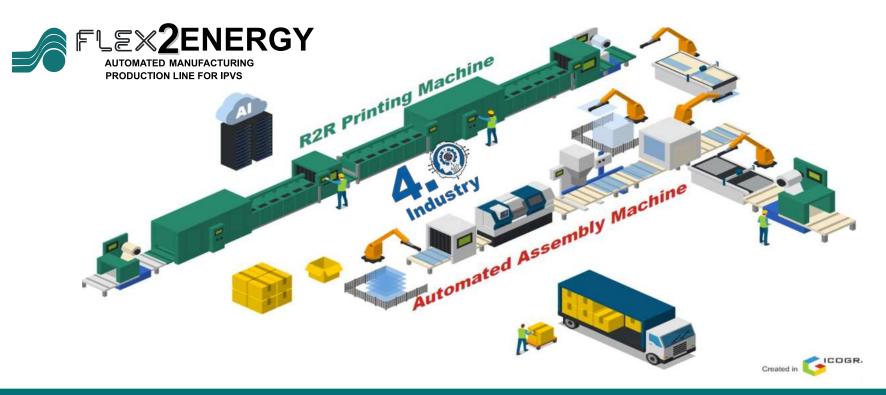




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Flex2Energy project



3.

Equipment



Today's equipment for S2S

S2S







Easycoater Evolution

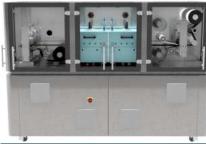
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Today's equipment for lab scale R2R

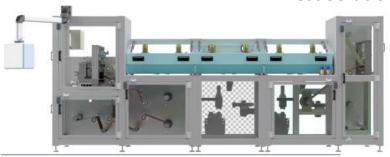


Lab

R2R lab systems



Test Solution R2R



Basecoater R2R



Smartcoater R2R

Today's equipment for pilot scale R2R

The Click&Coat[™]



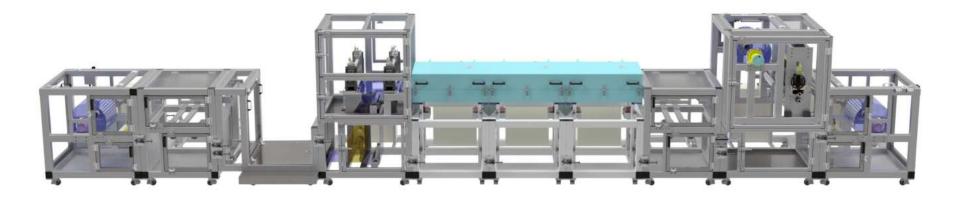


Today's equipment for pilot scale R2R

The Click&Coat[™]



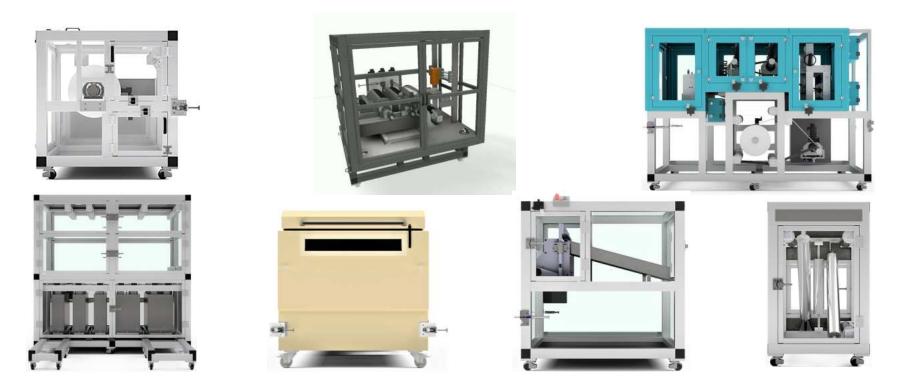
Pilot



Today's equipment for pilot scale R2R



The Click&Coat[™] single modules



Today's equipment for production



Production

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





The Click&Coat[™] in production scale



Today's equipment for production





Equipment

Production lines



Production lines



Production



Production lines

Equipment



Bespoke equipments





Printed oleds

Optical film

Composite fibres



R&D centre



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 evaluationTraining of staff
•́~	Education ✓ Coating conference ✓ Partner trainings	Education of studentsWorkforce training
	Development of custom-n ✓ Prototyping	nade design for equipment Proof of concept
Ś	Public funded research pro ✓ German funded ✓ Horizon 2020	ojects know-how ✓ Global 2+2 projects ✓ B2B projects

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

Earlybirds get **10% OFF** until September 30th, 2024

23rd international Coating Symposium November 26th + 27th, 2024 in Dormagen, Germany

The international Coating Symposium has been a leading 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 September 30th!** The not-to-be-missed event for practitioners and opinion leaders in the coating technology field. **Register now! We look forward to seeing you!**



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www.coatema.de

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Thank you

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