Overview on the Coatema product portfolio for deep tech technologies

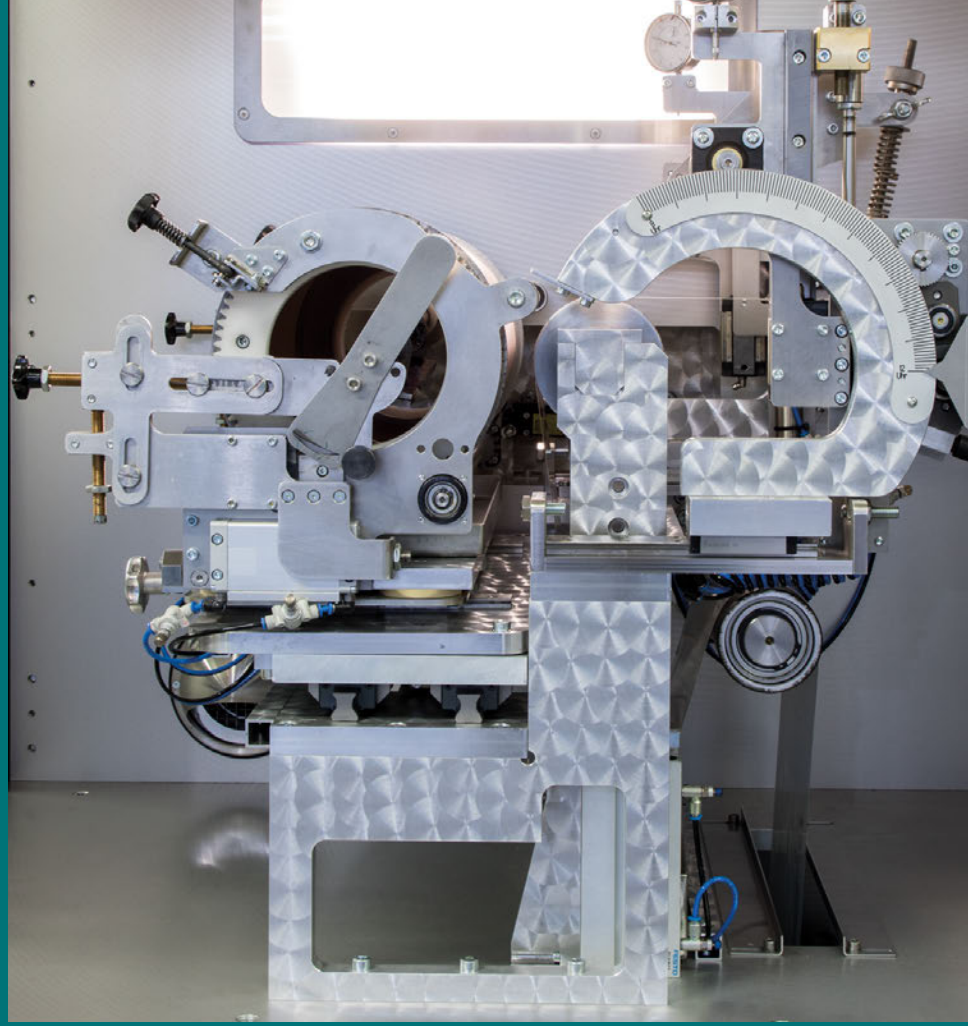
Coatema

19/12/2022

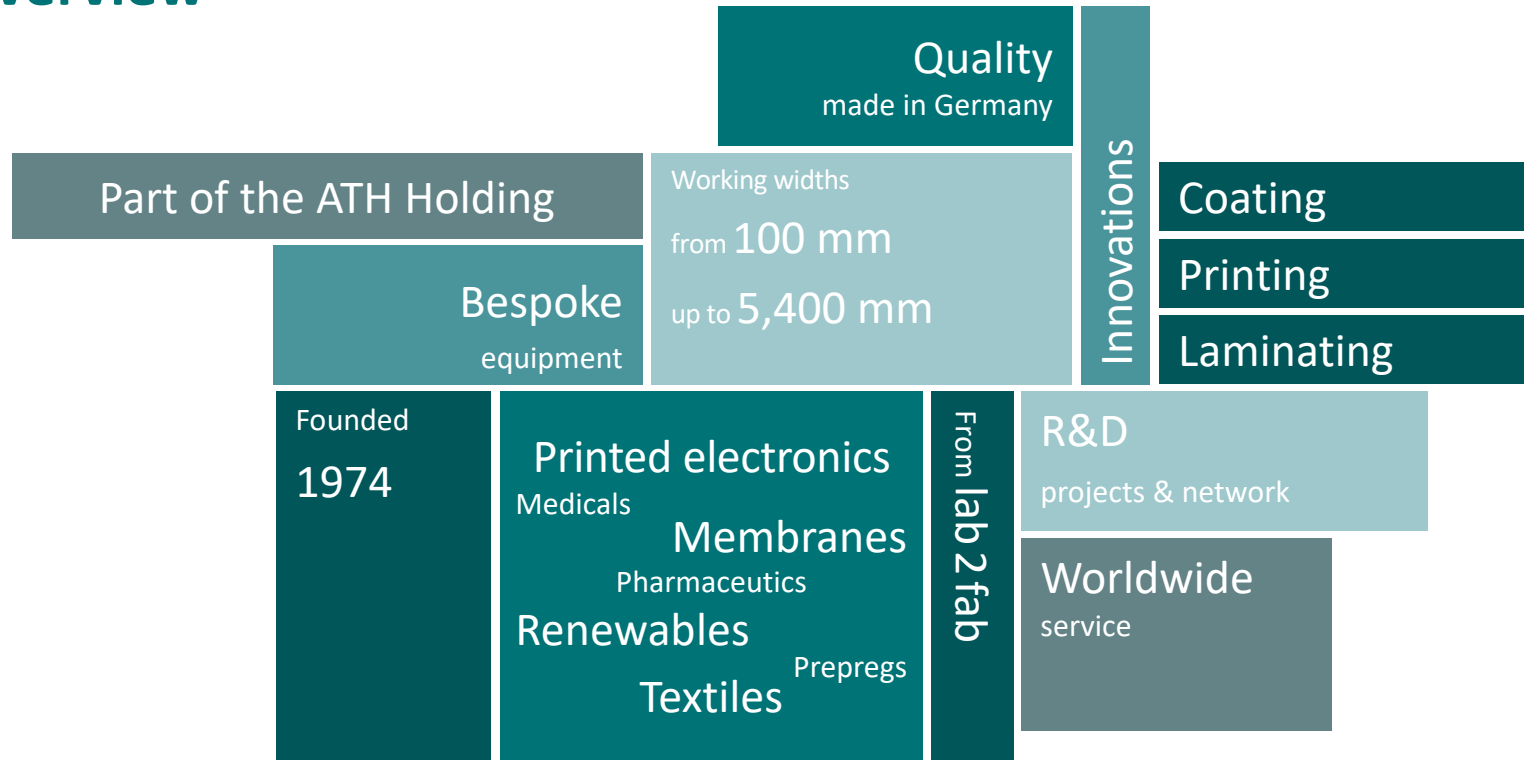
MEMBER OF ATH

1.

Introduction



Overview


Quality
made in Germany
Innovations
Part of the ATH Holding
Working widths
from 100 mm
up to 5,400 mm
Coating
Printing
Laminating
Bespoke
equipment
Founded
1974
Printed electronics
Medicals
Membranes
Pharmaceutics
Renewables
Prepregs
Textiles
From lab 2 fab
R&D
projects & network
Worldwide
service

Group of companies

ALTONAER
TECHNOLOGIE
HOLDING

KROENERT

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

DRYTEC

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

Coatema®
Coating Machinery GmbH

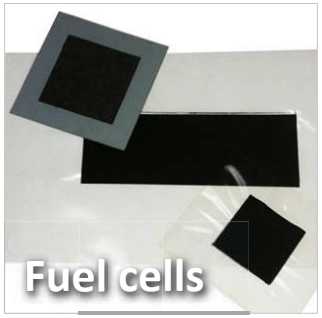
- ✓ Founded 1974
- ✓ Approx. 50 employees
- ✓ Located in Dormagen

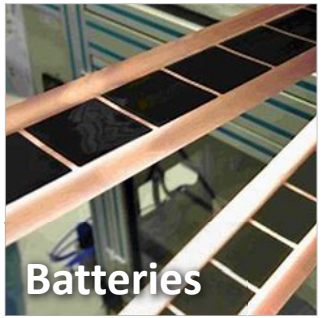
Vision – from lab 2 fab

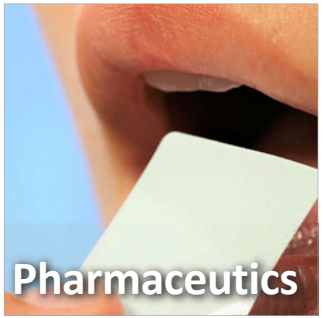
Lab → Pilot → Production

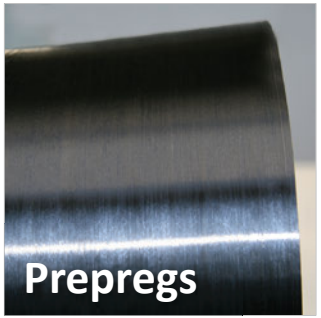
Coatema equipment platform strategy for lab 2 fab

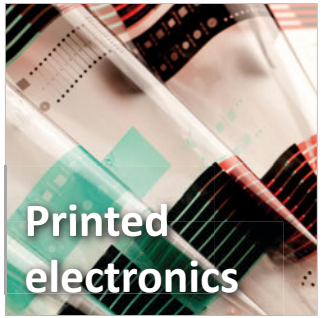
Our markets











Actual system proven in operational environment

Basic principles observed

Our markets – Coatema focus areas

- Green Hydrogen
- Fuel Cells
- Batteries
- Solar

- Sustainability
- Digital fabrication
- Printed electronics
- The next thing

2.

R&D centre

Introduction – R&D centre

Product portfolio

Process development

- ✓ Feasibility study
- ✓ Ink – process study
- ✓ Process analysis
- ✓ Proof of concept
- ✓ Smale scale prototype

Test production

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

Education

- ✓ Coatema conference
- ✓ Training of customers
- ✓ Education of students

After sales service and ramp up of processes

- ✓ of Coatema units

Development of custom made design for equipment

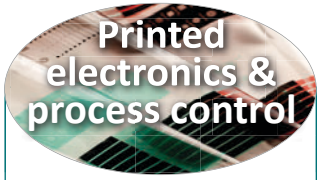
- ✓ Prototyping
- ✓ Proof of concept

Funded research projects

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

R&D customers

R&D projects overview 2022

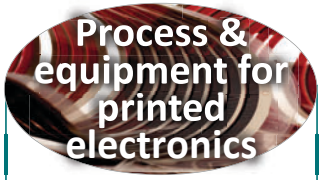


REAL NANO

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

Oled Solar

Advanced production for opto electronics towards industry 4.0

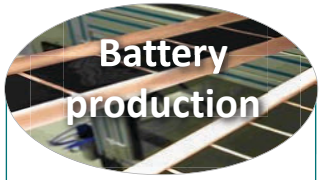


EffiLayers

R2R process optimization of organic photovoltaic cells

ENP

Development of near-field electro hydrodynamic nanowire printing



IDEEL

Implementation of laser drying processes for lithium-ion battery production

SOLiD

R2R process optimization for solid state batteries

pepLAT

Plasmonically enhanced photocatalysis for wastewater treatment

RetroWin

R2R Process and machinery development for retrofit window films for lower production costs

GREEN SENSE

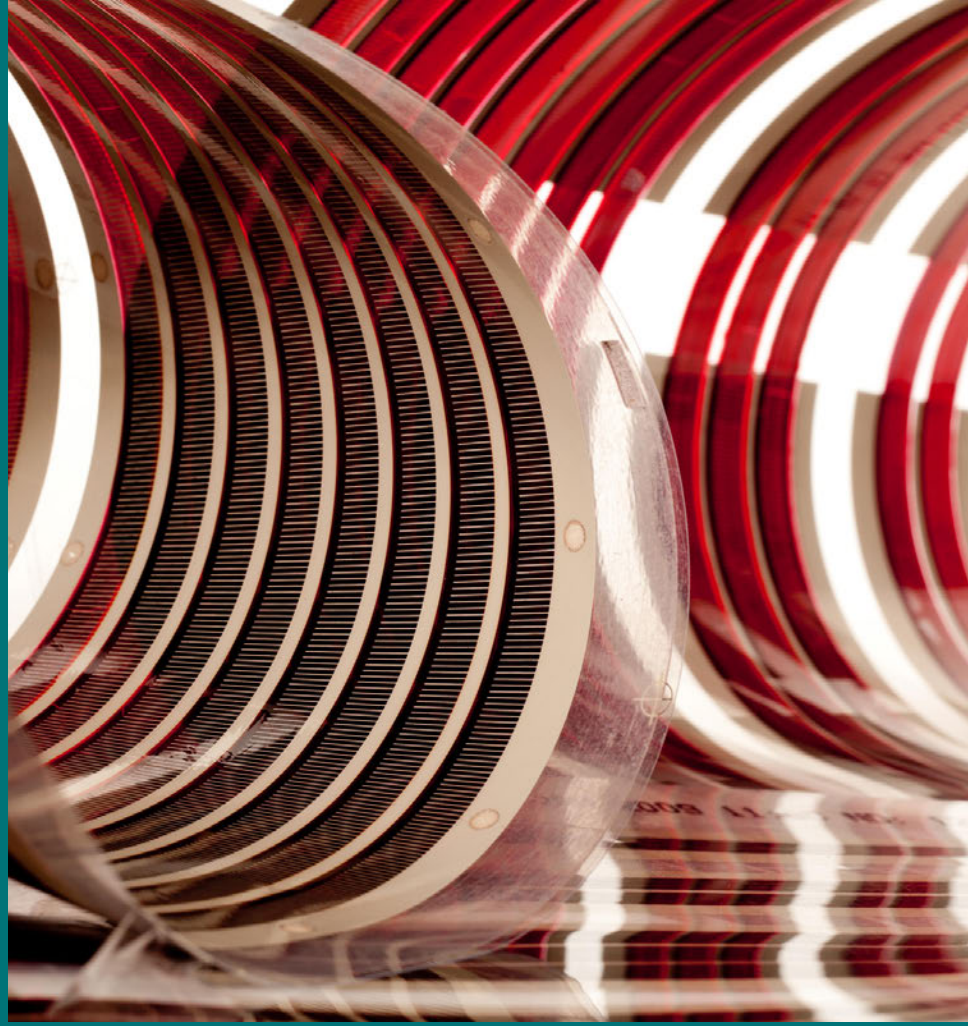
Sustainable paper-based printed electronics and biosensing platform

FLEX FUNCTION 2 SUSTAIN

Creating an open-innovation testbed for sustainable packaging

3.

Today`s equipment for deep tech applications



Sheet-to-sheet (S2S)

Test Solution

Ink testing

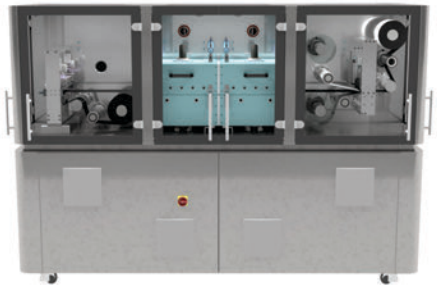
Easycoater

First sample product

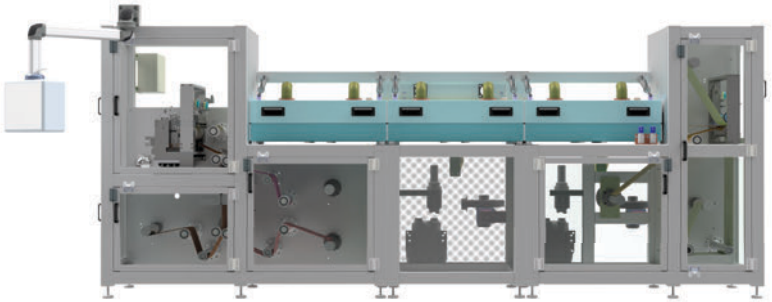
Easycoater Evolution

First pilot as S2S

Roll-to-Roll (R2R) lab systems

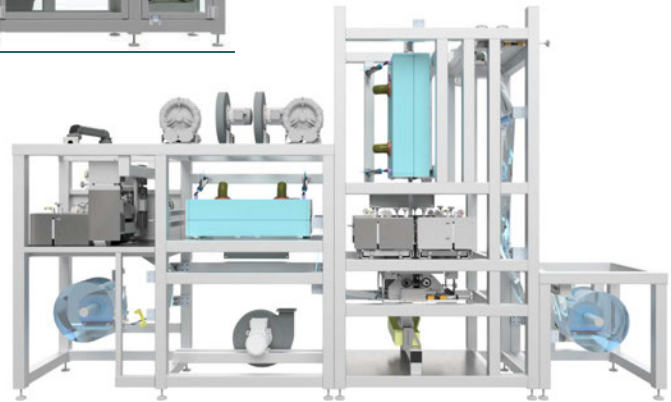


Test Solution R2R



Basecoater R2R

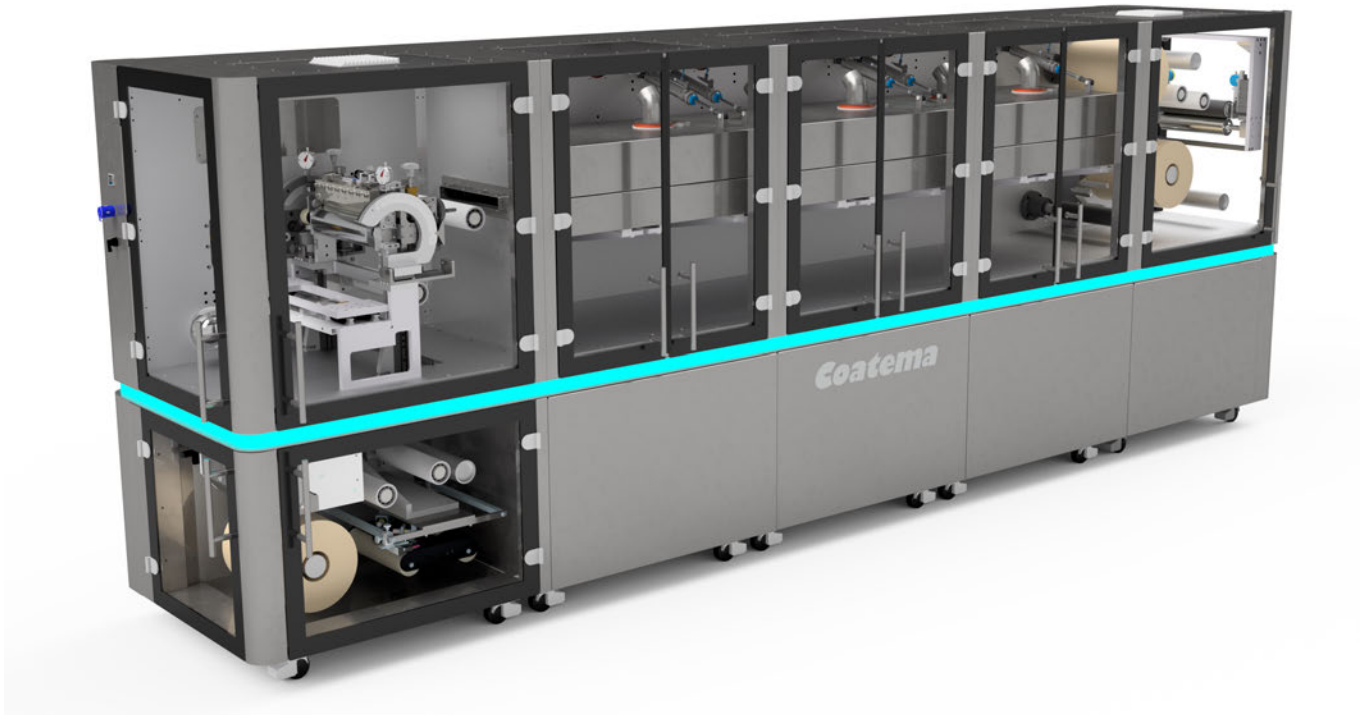
Smartcoater R2R



Verticoater R2R

The Smartcoater

The Smartcoater

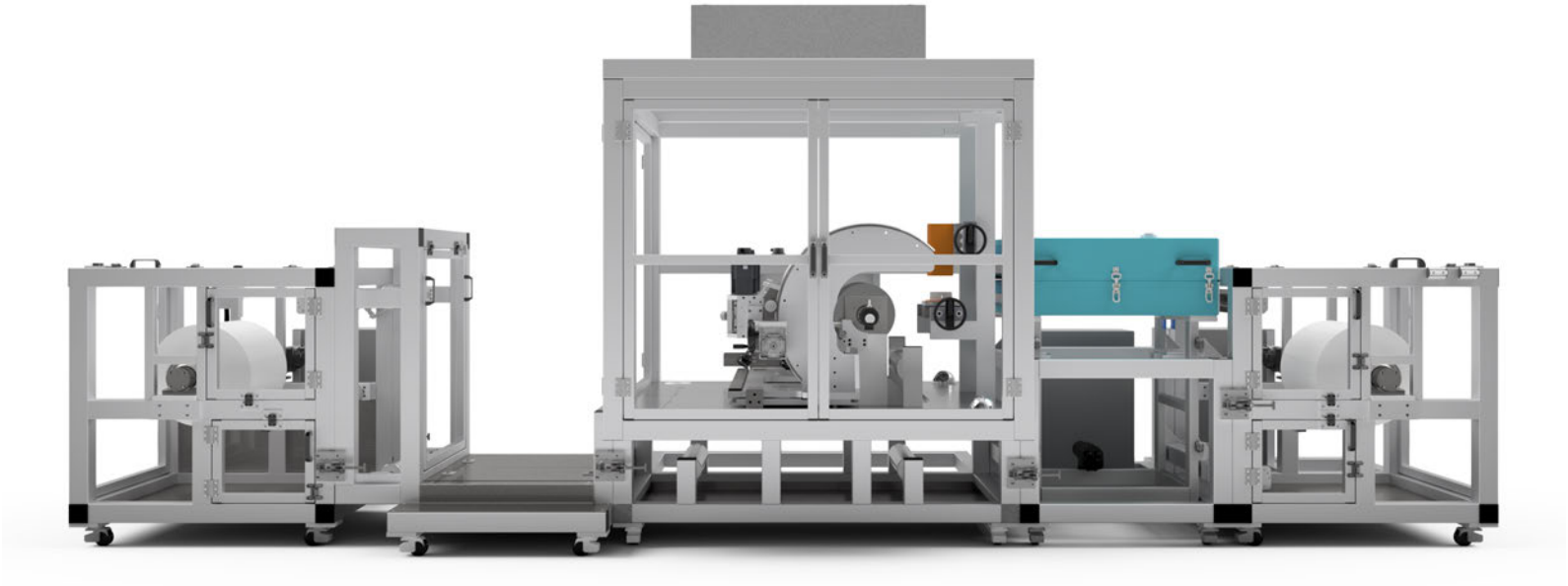


Roll-to-Roll (R2R) pilot

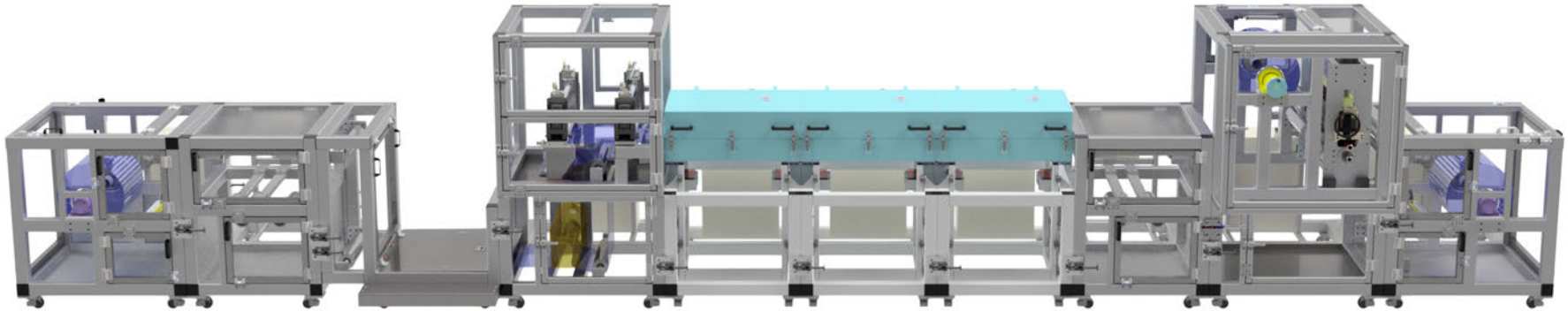
Basecoater Pilot R2R

The Basecoater

The Click&Coat™

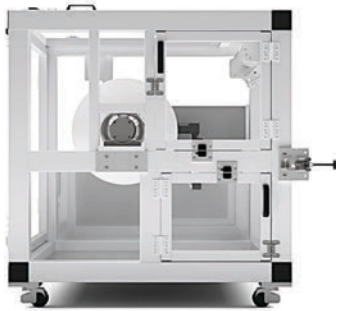


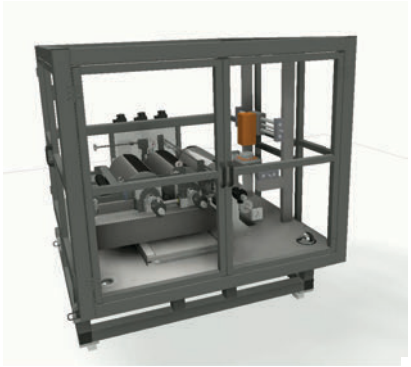
The Click&Coat™

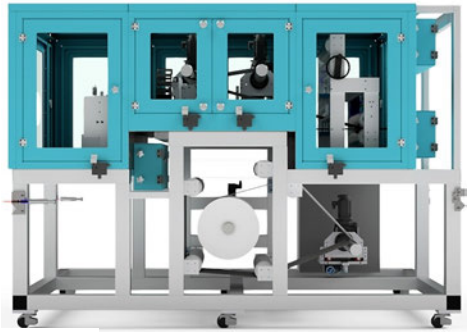


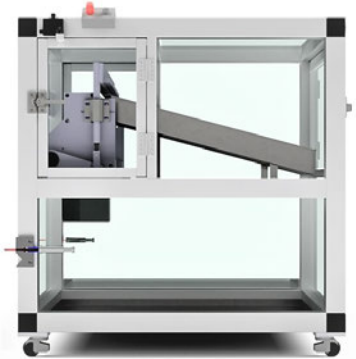
The Click&Coat™

The Click&Coat™ single modules

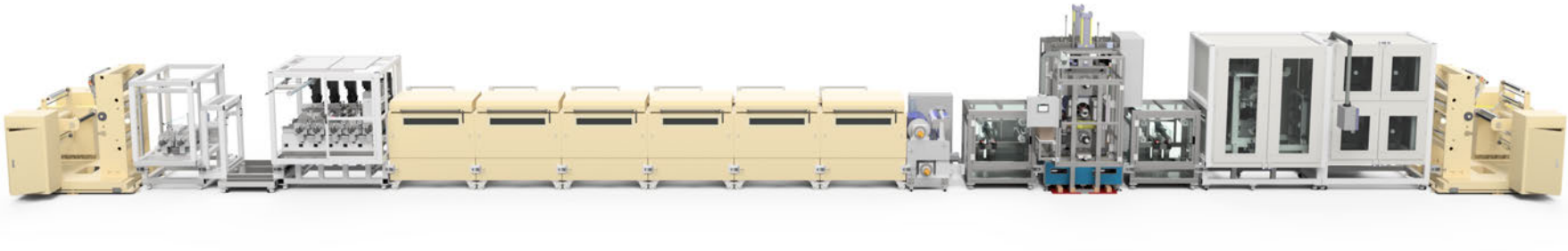








The Click&Coat™ in production scale in the R&D centre



The Click&Coat™ in production scale

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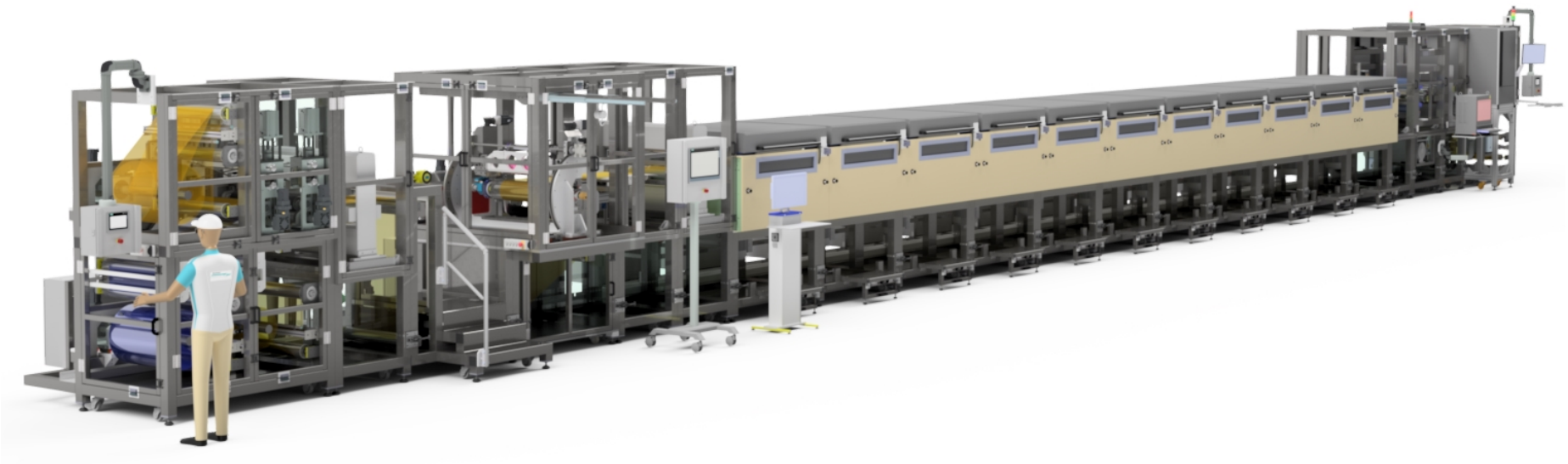
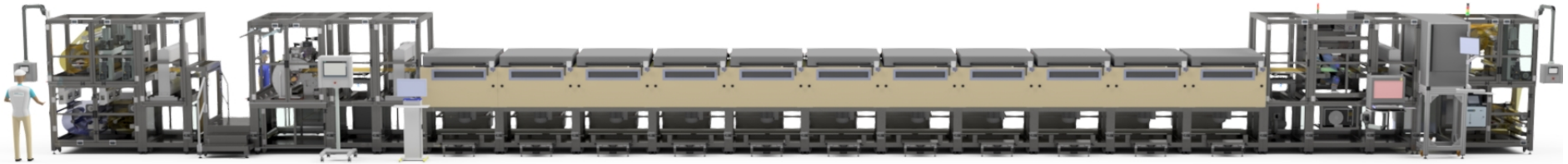


The Click&Coat™ in production scale



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:
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Thank you

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