



***Coatemala***

## Coatemala Basecoater

03/05/2023

MEMBER OF ATH

# Agenda

1. Introduction
2. Basecoater
3. Basecoater 3<sup>rd</sup> Generation
4. Custom made Basecoater
5. Options & specifications
6. Summary

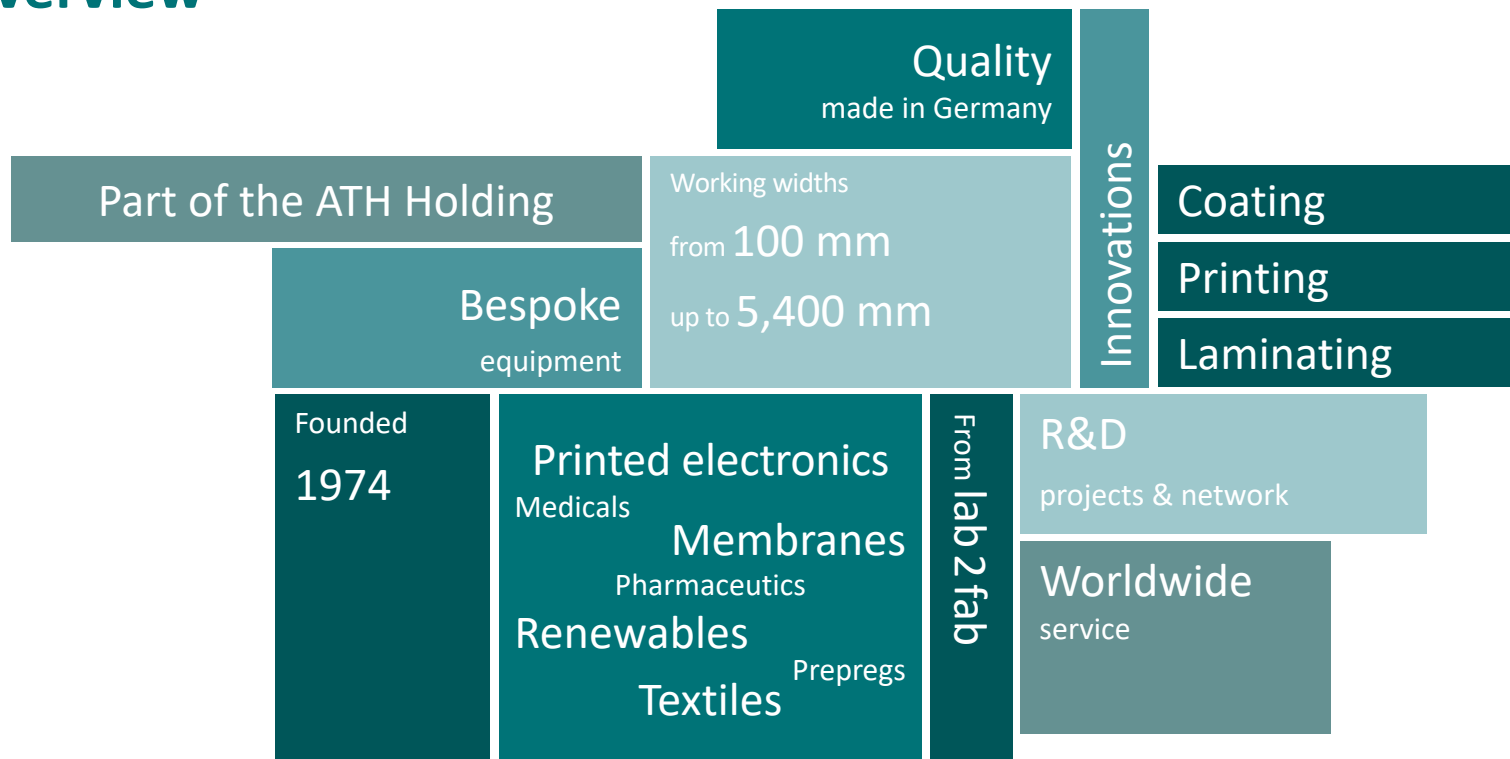


# 1.

## Introduction



## Overview



## Group of companies

**ATH** ALTONAER  
TECHNOLOGIE  
HOLDING



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

**DRY/TEC**

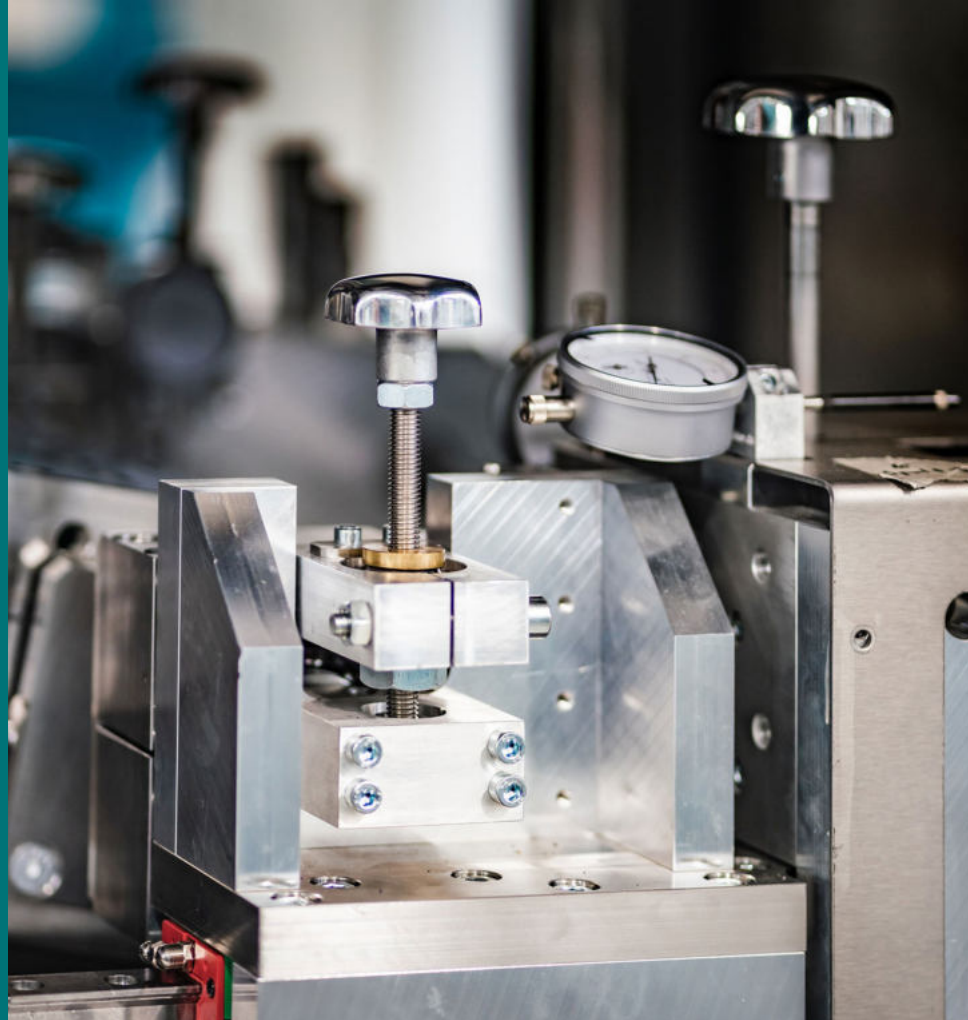
- ✓ Founded 1995
- ✓ Approx. 50 employees
- ✓ Located in Norderstedt



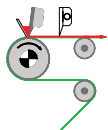
- ✓ Founded 1974
- ✓ Approx. 50 employees
- ✓ Located in Dormagen

# 2.

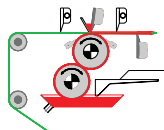
## Basecoater



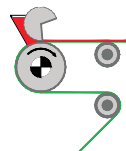
## Coating systems



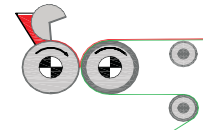
Knife system



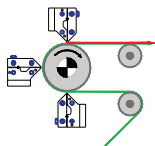
Double side coating system



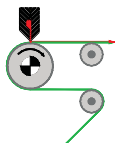
Commabar system



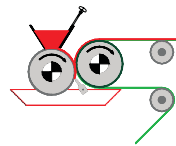
Reverse commabar system



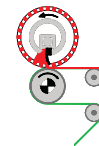
Slot die system



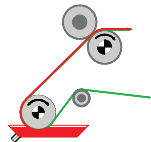
Curtain coating system



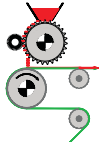
Case knife system



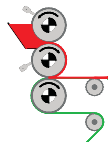
Rotary screen system



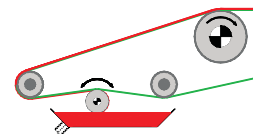
Dipping system (Foulard)



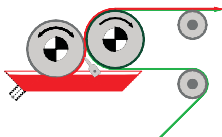
Powder scattering system



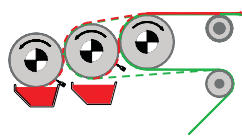
Reverse roll coating system



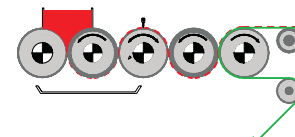
Micro roller coating system



2-roller coating system



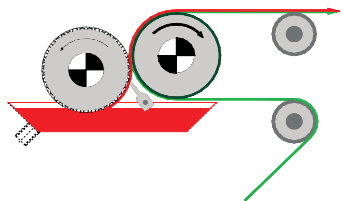
3-roller combi coating system



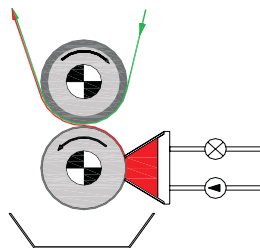
5-roller coating system



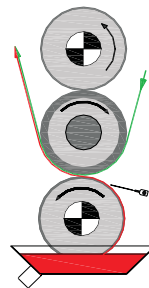
## Printing systems



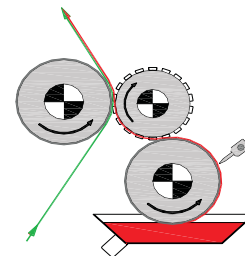
Engraved roller system



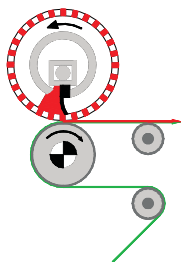
Gravure roller system



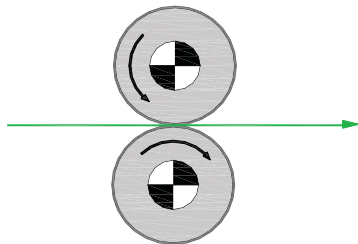
Gravure indirect system



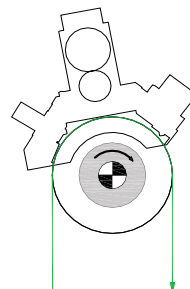
Flexography system



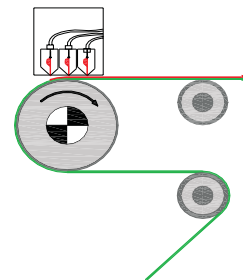
Rotary screen system



Hot embossing system



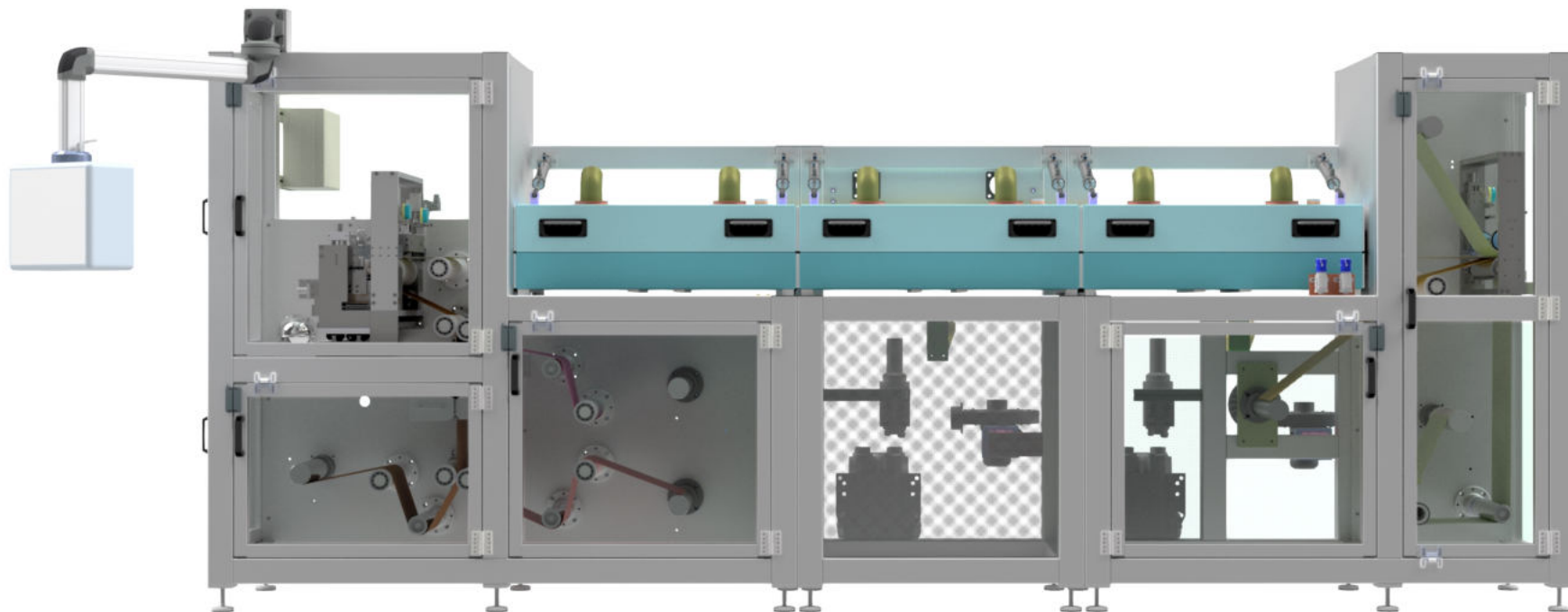
Nanoimprint system



Inkjet system



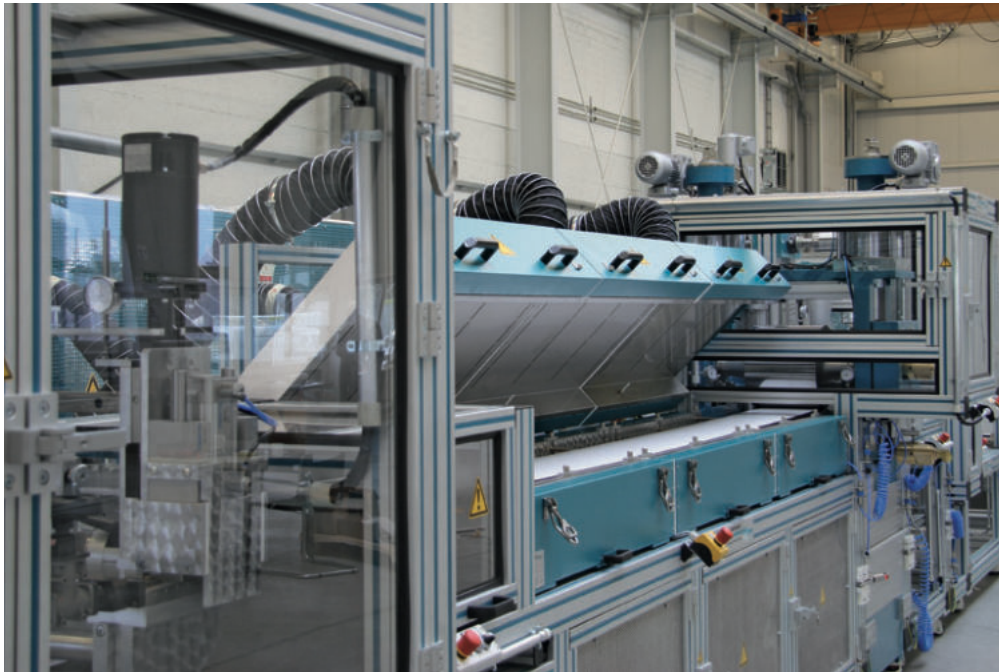
## The Basecoater



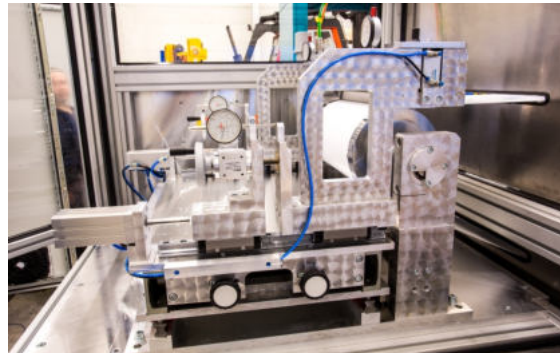
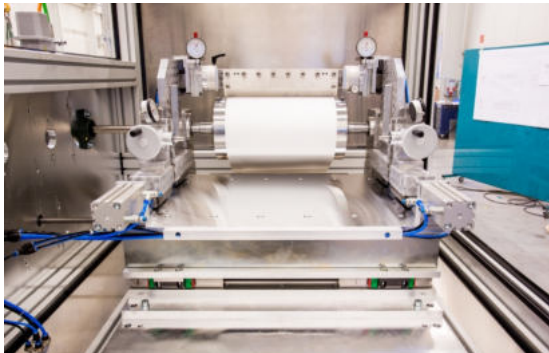
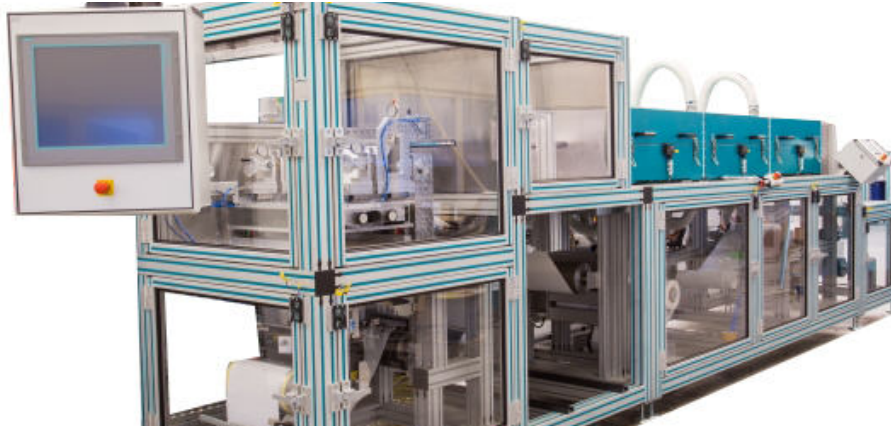
## The Basecoater standard



## Dryer

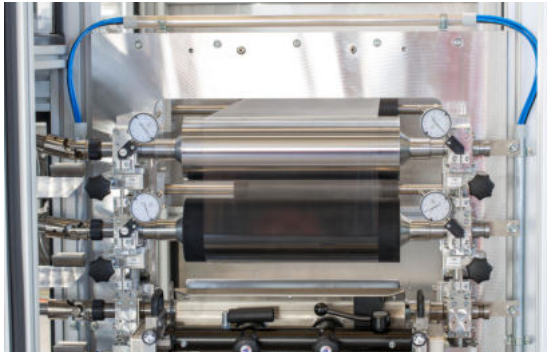


# Coatema Basecoater

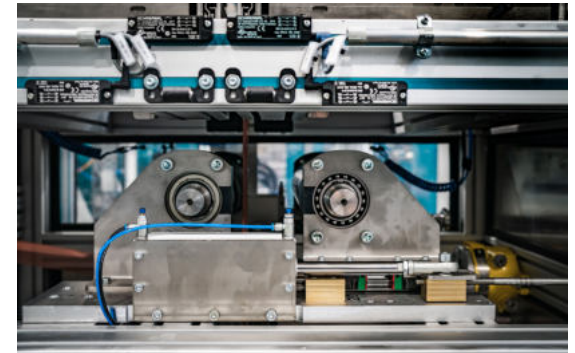
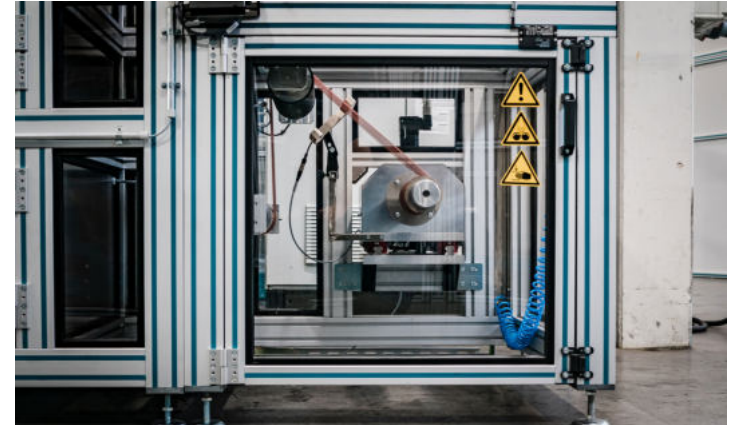




# Coatema Basecoater



# Coatema Basecoater



# 3.

## Basecoater 3<sup>rd</sup> Generation





## Overview drawing of the new Basecoater



Unwinder	Slot die system	3m dryers	ps laser	Slot die system	Ink jet	3m dryers	IPL	In-line optical metrology (SE, Raman)	LBIC	Rewinder
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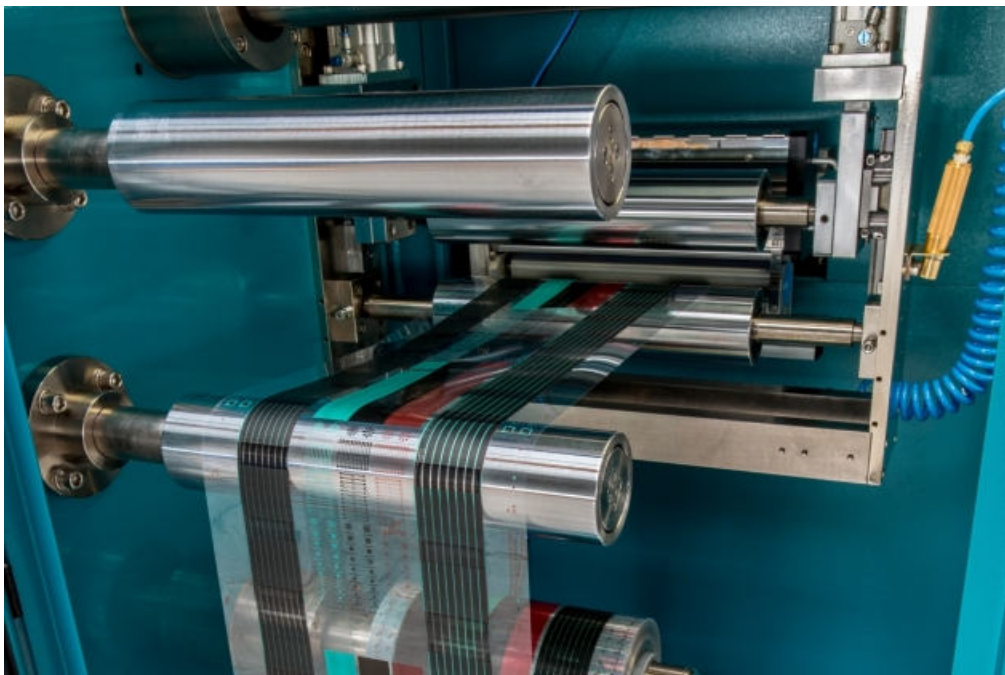
## Overview of product features & options for the new Basecoater



LAYOUT FEATURES (as shown in drawing)

1	Cantilever
2	Delamination/Lamination
3	Contact cleaning system
4	Corona station
5	Slot die system
6	Rotary screen system
7	2 Roller system
8	Hot air dryer, IR-dryer
9	UV-unit
10	Enclosure – glove box option
11	Edge guiding system
12	Cross-directional cutting system

## Unwinder and delamination

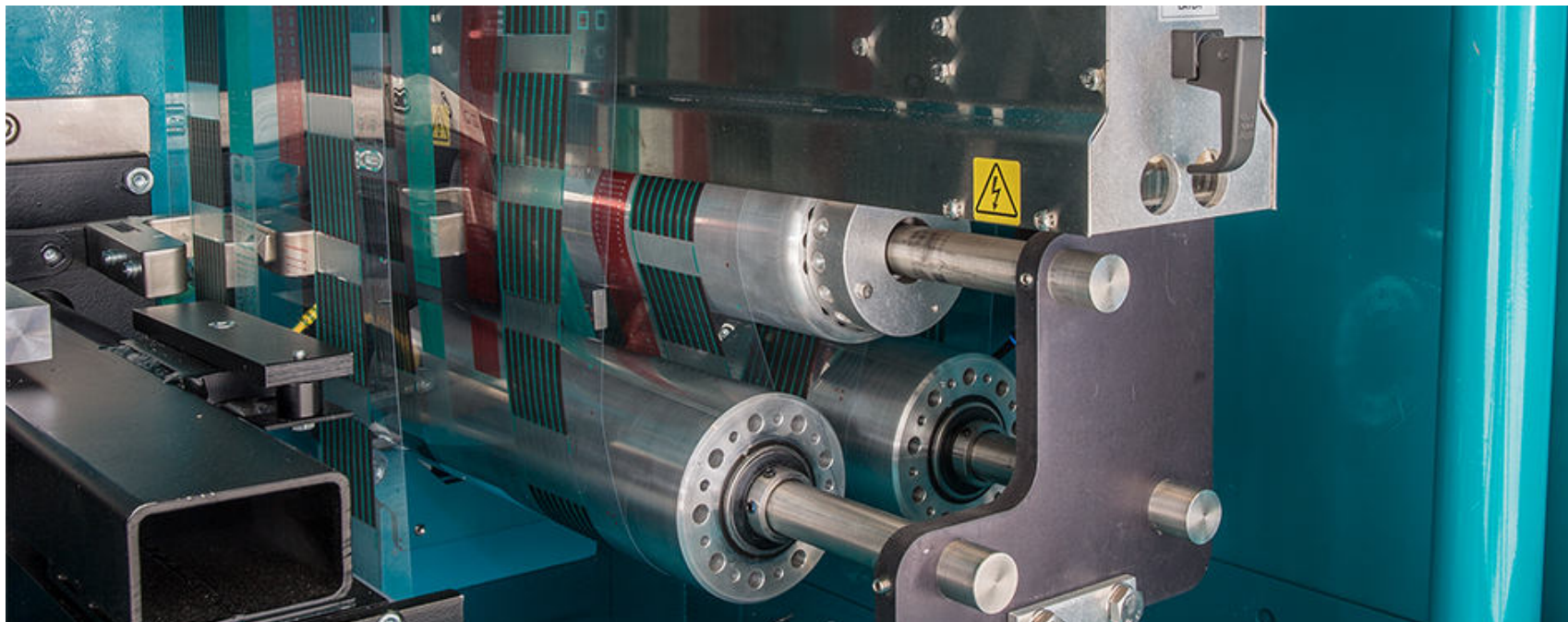


## Contact cleaning with bath system

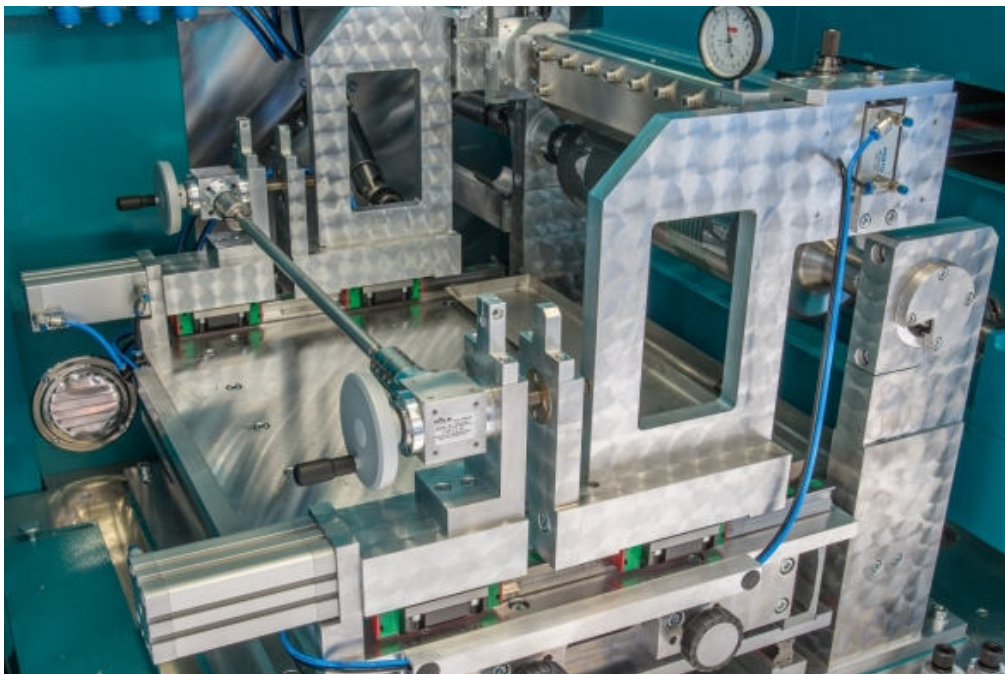




## Corona station



## Slot die coating device on trolley



## Dryer





## Edge sealing system



## Lamination unit



## UV unit and rewinder





## Pulling device and cutting system

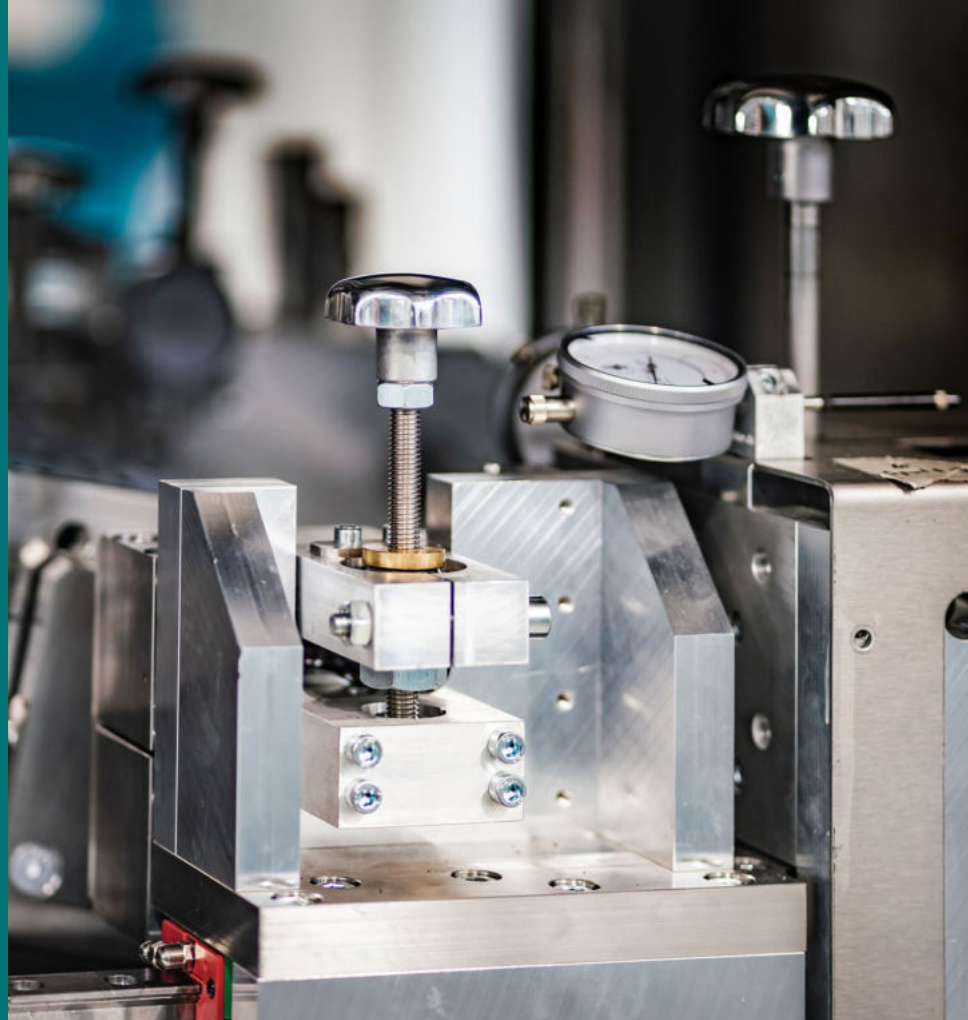


## Backside of the unit

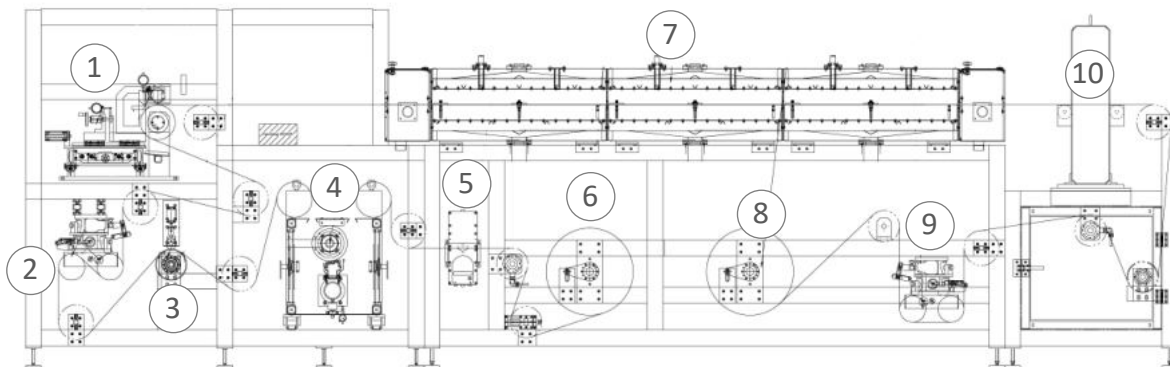


# 4.

## Custom made Basecoater



## Overview of product features & options for the Basecoater



LAYOUT FEATURES (as shown in drawing)

1	Coating device
2	Edge guiding system
3	Pulling device
4	Corona
5	Contact cleaning
6	Unwinder
7	Dryer
8	Rewinder
9	Edge guiding system
10	Thickness control



## Overview



### Coating systems

- ✓ Exchangable modules
- ✓ Over 30 systems available

### Printing system

- ✓ Exchangable modules
- ✓ Inkjet

### Control system

- ✓ Siemens S7
- ✓ Load cells for tension control

### Heating/Crosslinking

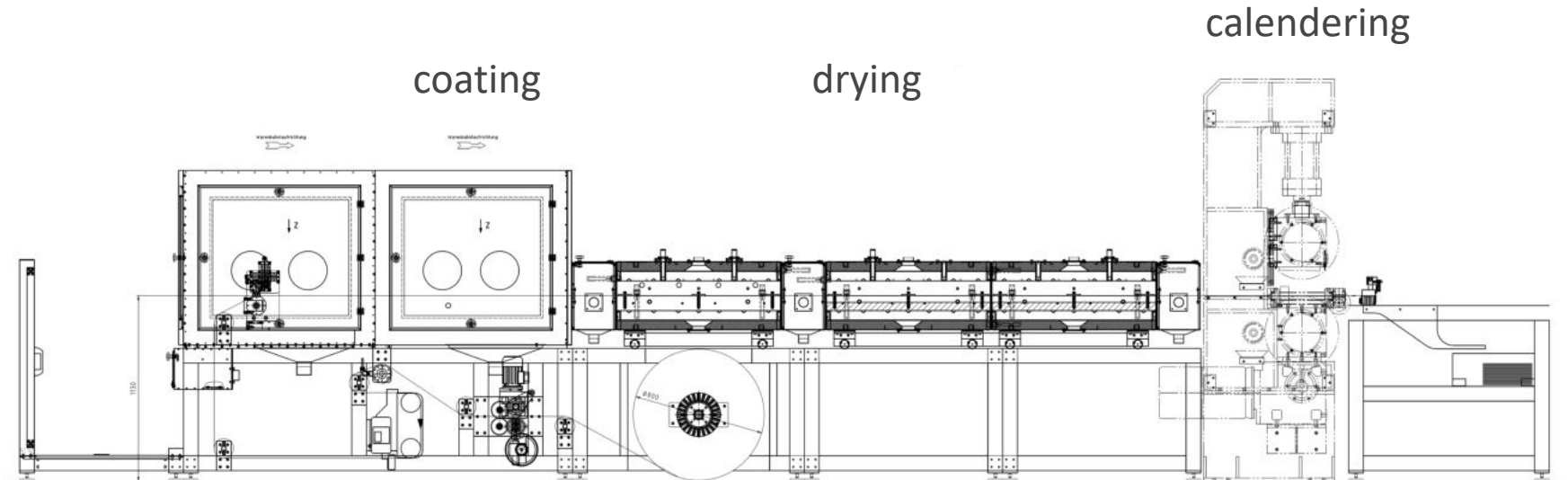
- ✓ Heated air
- ✓ Infrared
- ✓ UV

## Bespoke Basecoater battery equipment

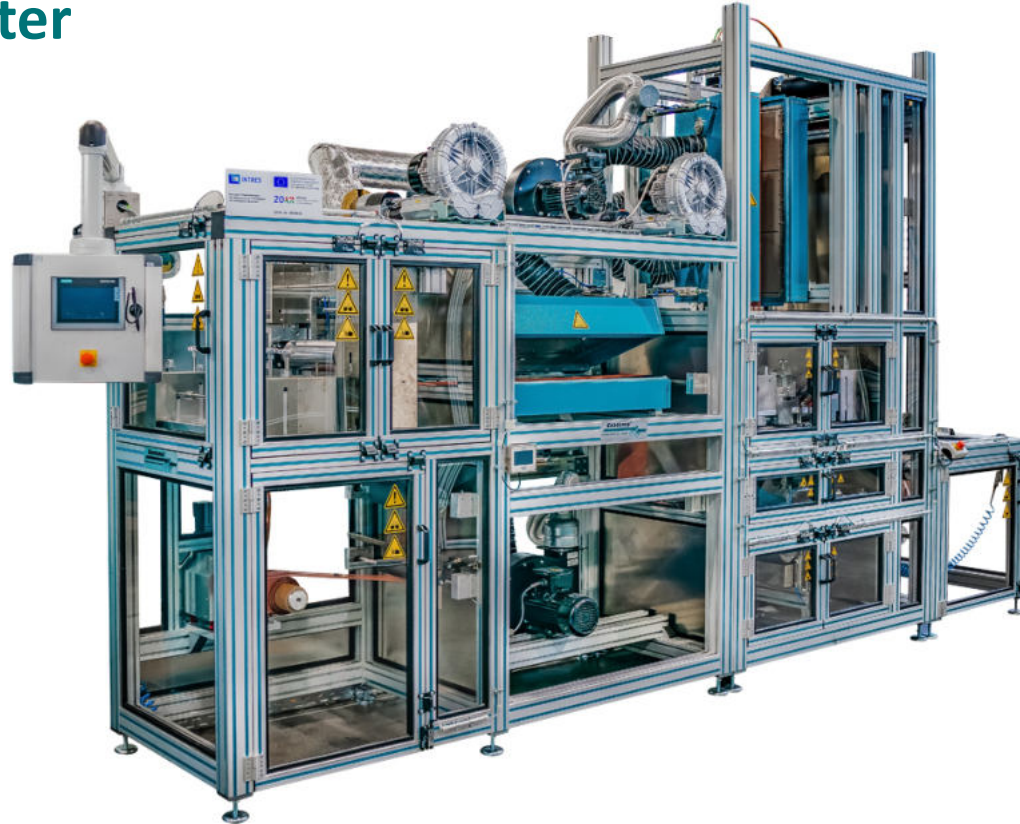


- ✓ Oxygen content <3%
- ✓ Saturated solvents below LEL
- ✓ IR Drying
- ✓ 50m<sup>3</sup>/h N<sub>2</sub> flow

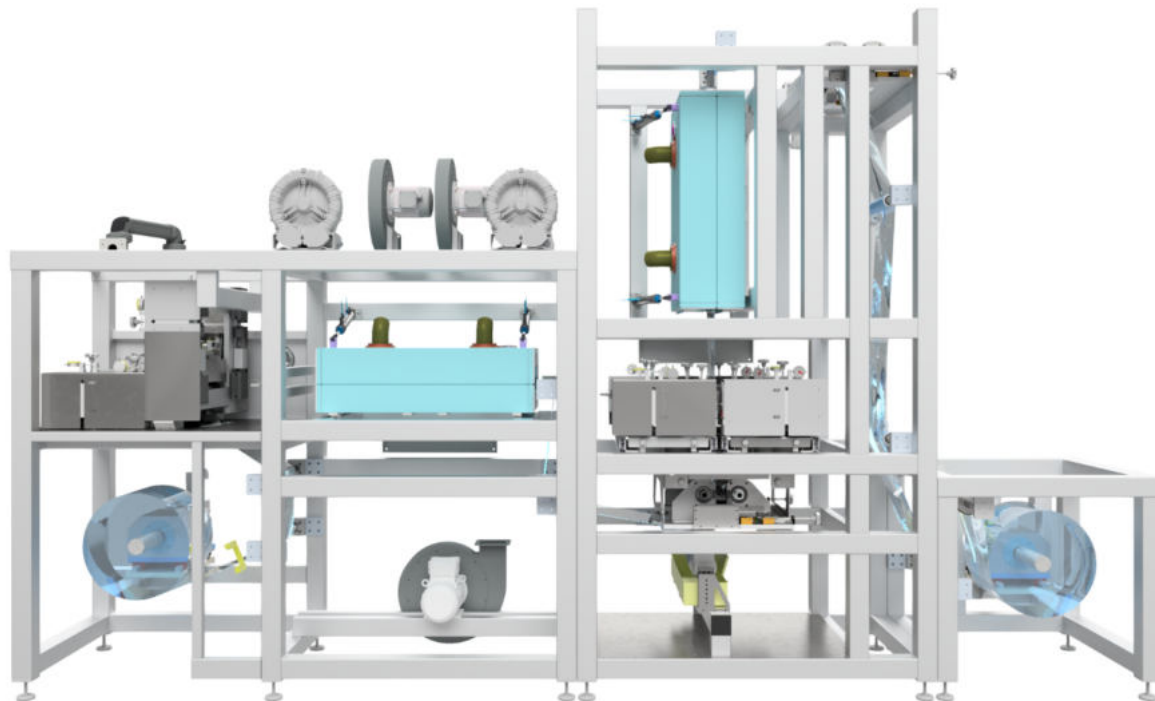
## Bespoke Basecoater battery equipment



## The Basecoater

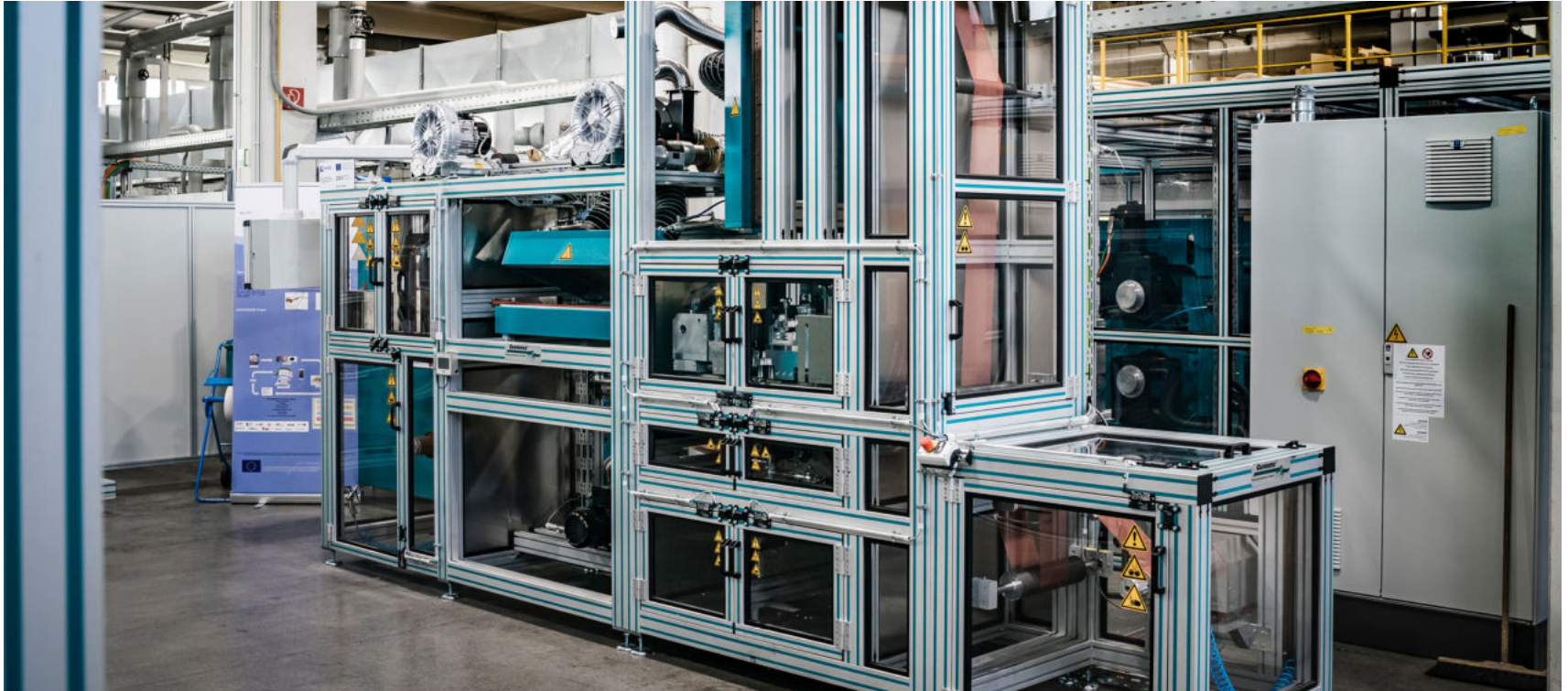


## The Basecoater

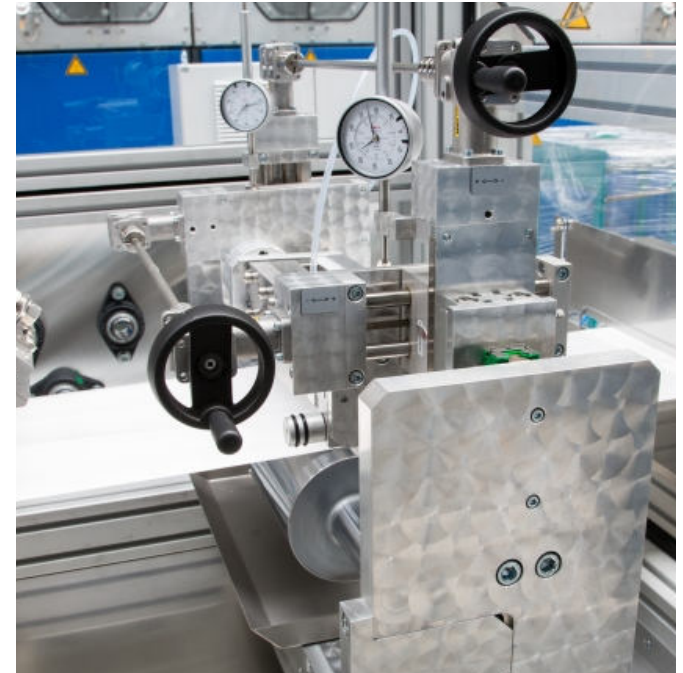
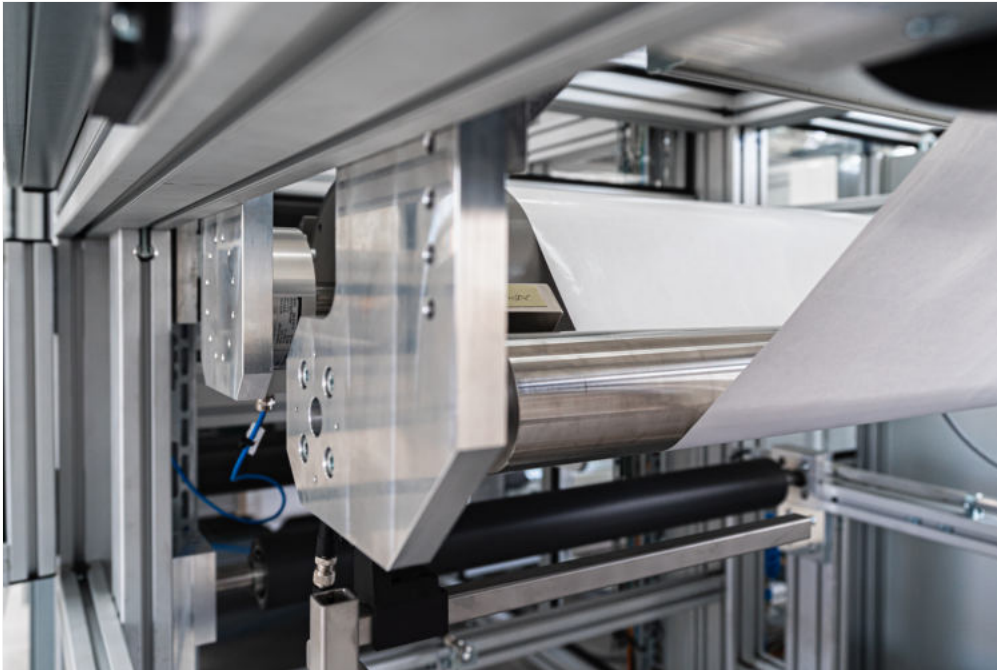




# Custom made Basecoater

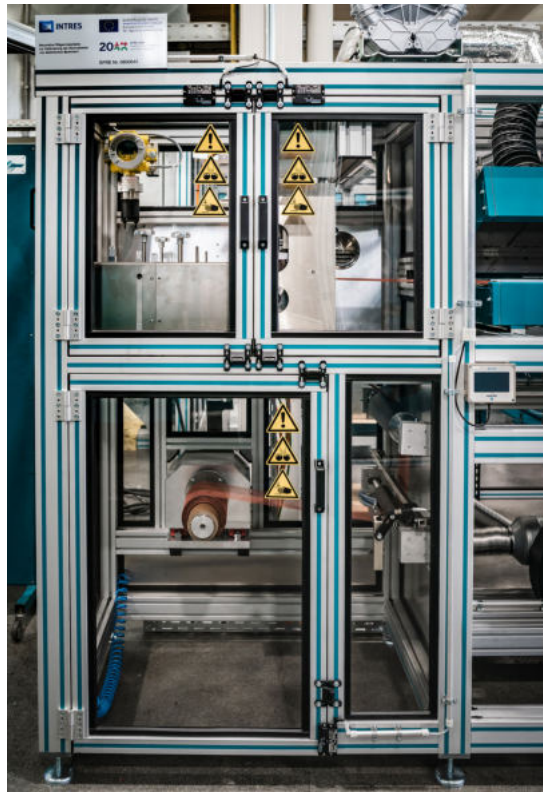


## Slot die application

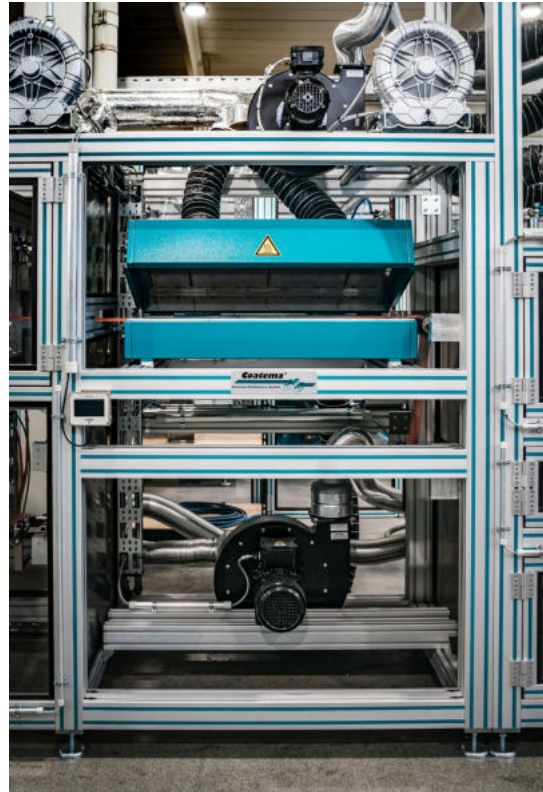




# Custom made Basecoater



# Custom made Basecoater



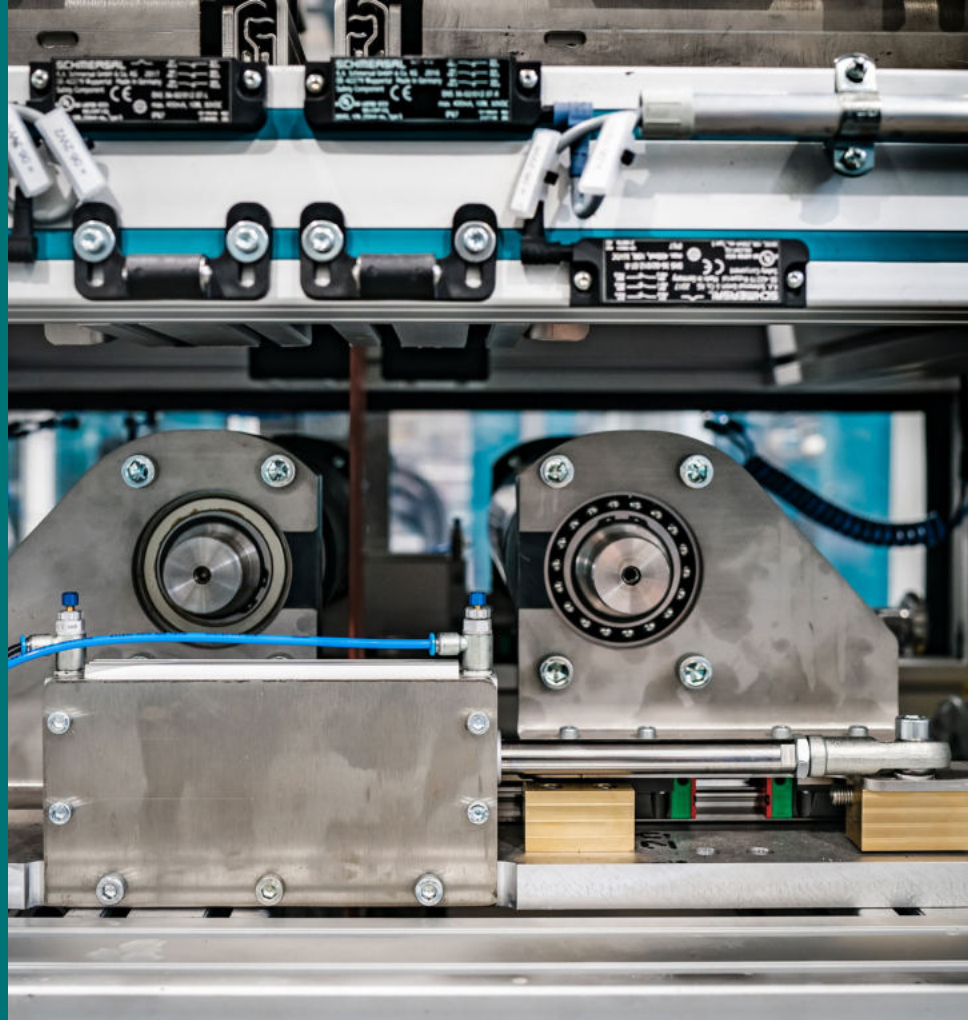


# Custom made Basecoater



# 5.

## Options & specifications



# Technical specifications in detail

### Operating options

- ✓ Tension control system with load cell
- ✓ Siemens S7 system

### Dimensions size

- ✓ Depending on configuration (LxBxH)

### Dryer

- ✓ Hot air (UV, IR on demand)

### Coating options

- ✓ Over 40 coating and printing systems for plug in and out

### Machine base

- ✓ All processes fully enclosed
- ✓ Easy and quick machine setup

### Options

- ✓ Washing module
- ✓ Lamination module
- ✓ Corona module
- ✓ Web cleaner
- ✓ Turret
- ✓ Inert coating modul
- ✓ Relaxation modul
- ✓ UV dryer (mobil)
- ✓ Double side lamination (unheated)



# 6.

## Summary



# The Basecoater benefits

- ✓ Versatile layouts available
- ✓ Working widths 300 mm / 500 mm / 800 mm / 1.000 mm
- ✓ Interchangeable and modular coating & printing systems
- ✓ Inert gas layout available for battery and other production
- ✓ Coatema electrical dryer concept and Drytec flotation dryer available
- ✓ Over 50 units in the market
- ✓ Fully industry 4.0 versions available
- ✓ Perfect and economical scaling up tool

## Do not hesitate to contact us!



The Basecoater 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](mailto:sales@coatema.de)

Download  
brochures & presentations



***Coatema***

Thank you

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