

Coatema – The Basecoater & Basecoater 3rd Generation

Overview

Introduction

Basecoater

Basecoater
3rd Generation

Custom
made
Basecoater

Summary

Summary

Introduction

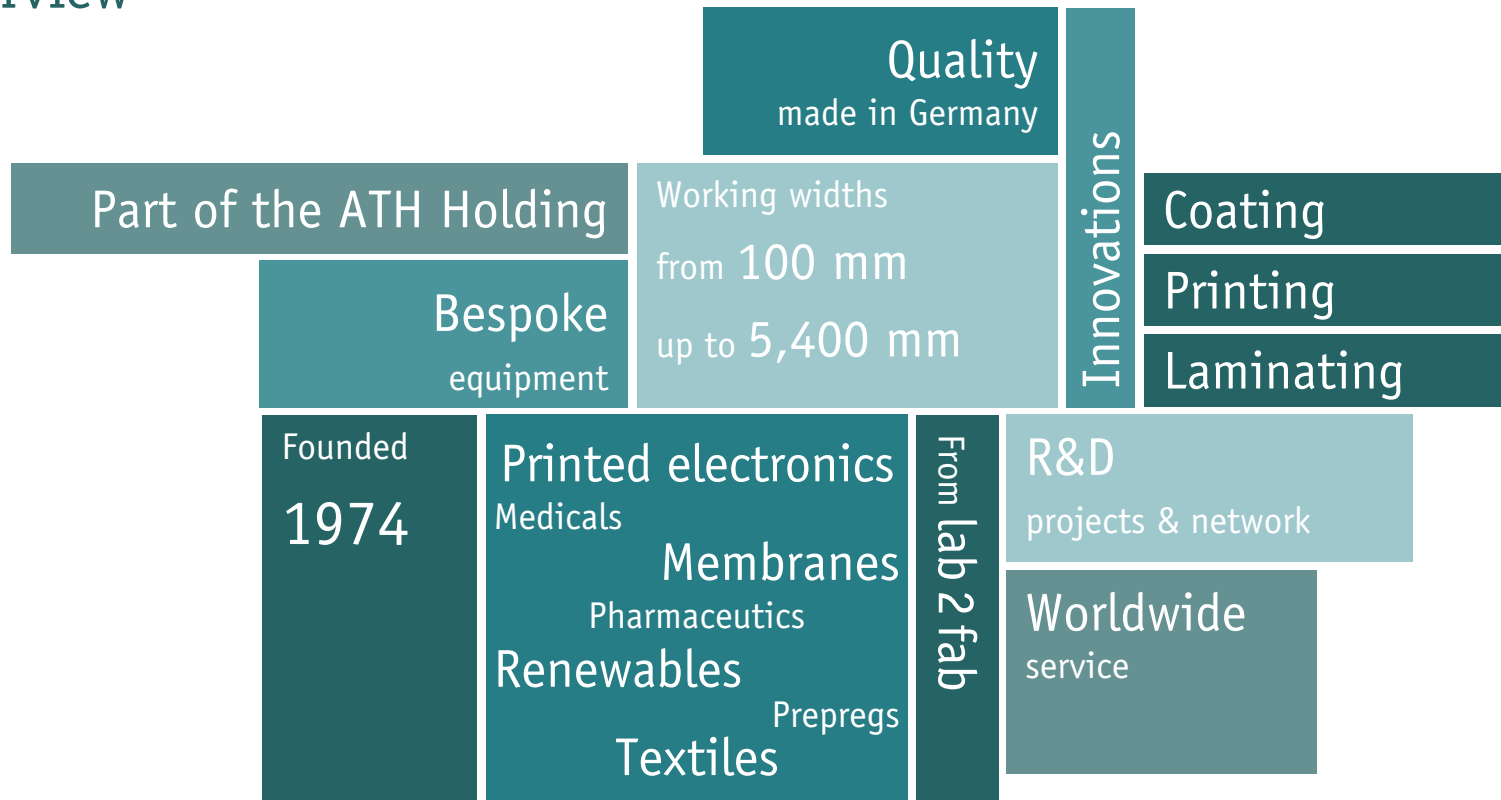
Basecoater

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Summary

Overview



Group of companies



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



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



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



- ✓ Founded 1919
- ✓ Approx. 140 employees
- ✓ Located in Hamburg

Summary

Introduction

Basecoater

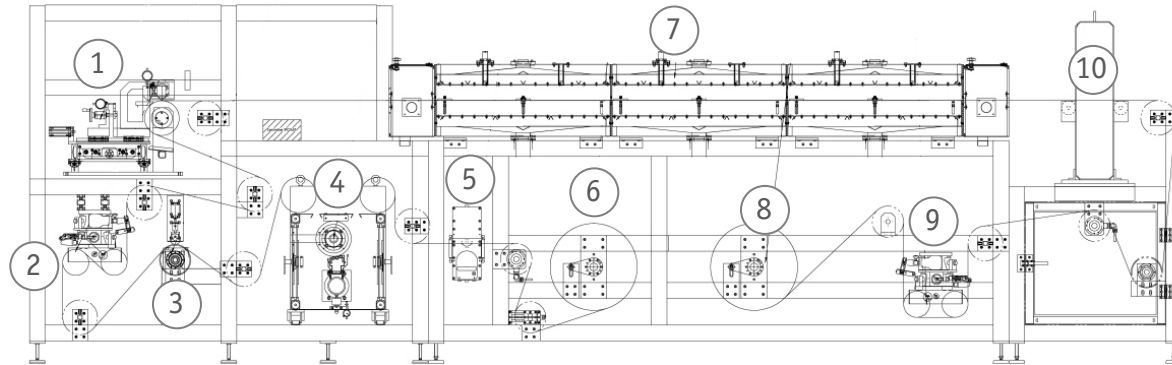
Basecoater
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Summary

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

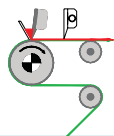
Control system

- ✓ Siemens S7
- ✓ Load cells for tension control

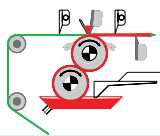
Heating/Crosslinking

- ✓ Heated air
- ✓ Infrared
- ✓ UV

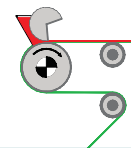
Coating systems



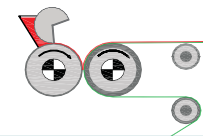
Knife system



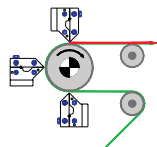
Double side system



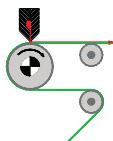
Commabar system



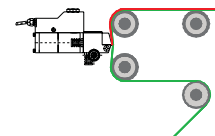
Reverse commabar system



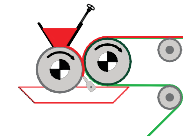
Slot die system



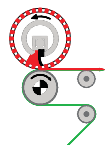
Curtain coating system



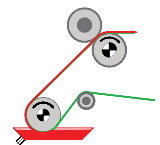
Hotmelt slot die system



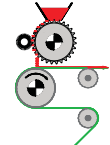
Case knife system



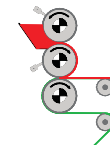
Rotary screen system



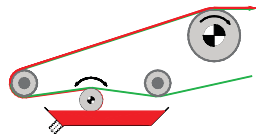
Dipping system (Foulard)



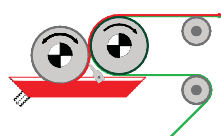
Powder scattering system



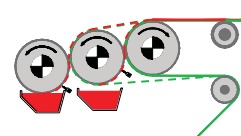
Reverse roll system



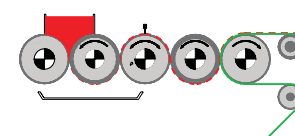
Micro roller system



2 Roller system

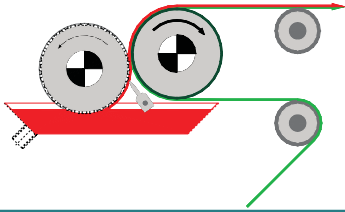


3 Roller combi system

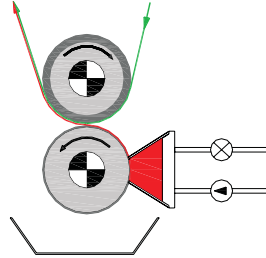


5 Roller system

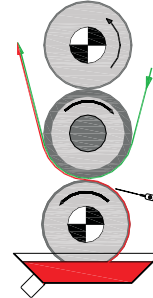
Printing systems



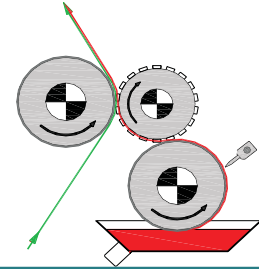
Engraved roller system



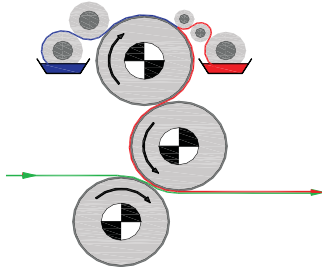
Gravure roller system



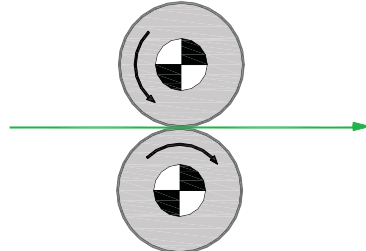
Gravure indirect system



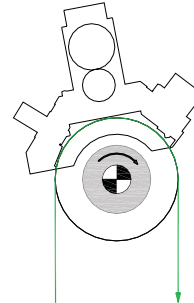
Flexography system



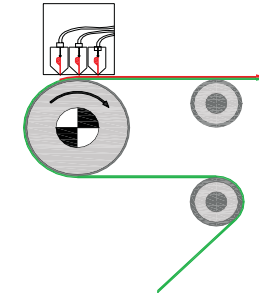
Offset lithography system



Hot embossing system



Nanoimprint system

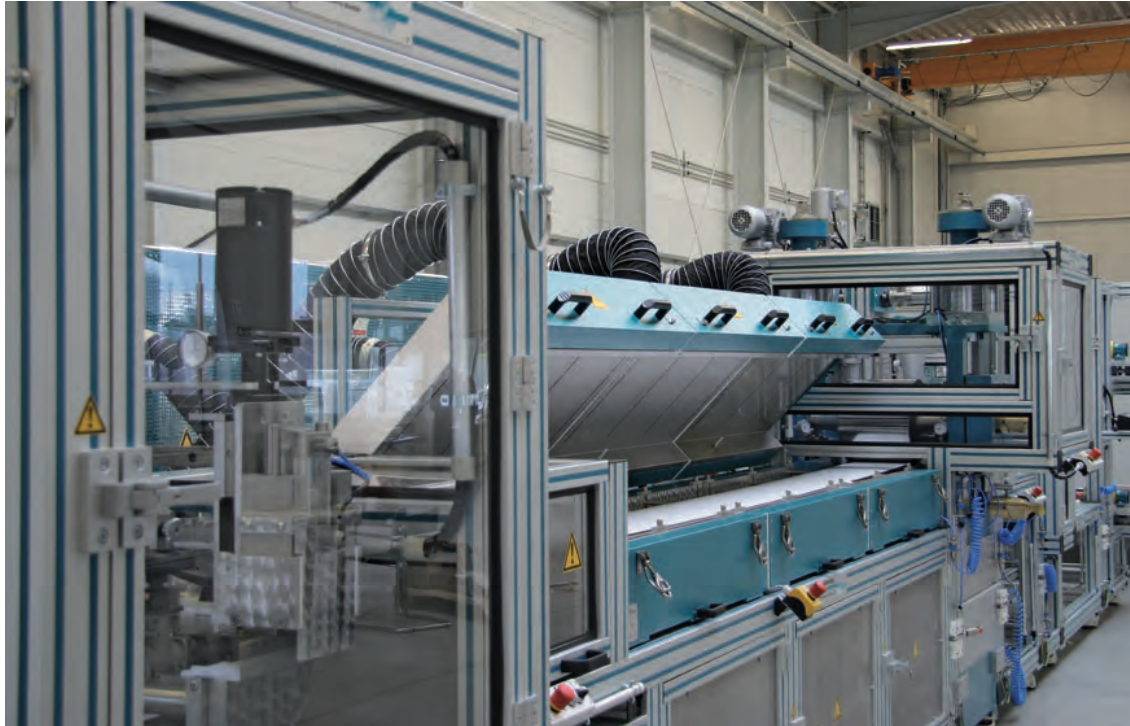


Inkjet system

Slot die application



Dryer



Summary

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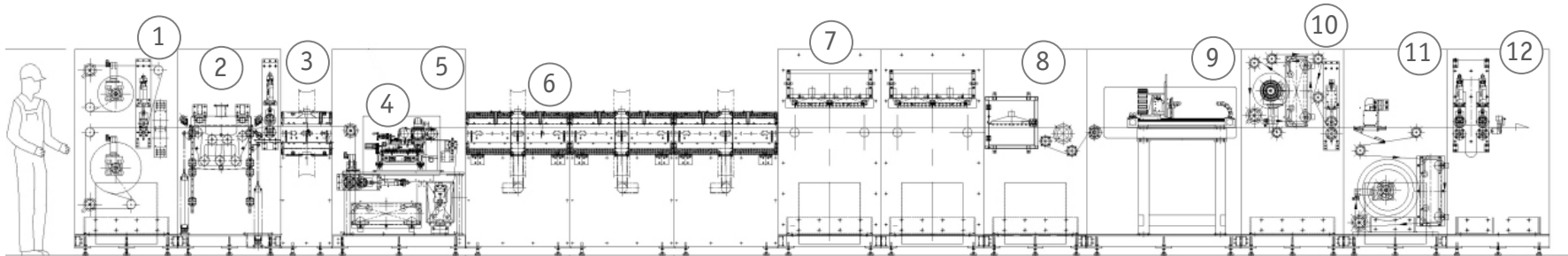
Custom
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Basecoater

Summary

3rd Generation
Basecoater

Overview drawing of the new Basecoater

LAYOUT FEATURES (as shown in drawing)					
1	Unwinder and delamination	4	Coating unit	7	Infrared field
2	Impregnation system	5	Enclosure	8	Cooling unit & pulling device
3	Drying unit (500 mm)	6	Drying unit (1.500 mm)	9	Edge guiding system
				10	Lamination unit
				11	UV unit & rewinder
				12	Pulling device & cutting system



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

Unit for flexible photovoltaic products



Coating systems

- ✓ Slot die
- ✓ Doctor blade

Printing system

- ✓ Screen printing
- ✓ Inkjet

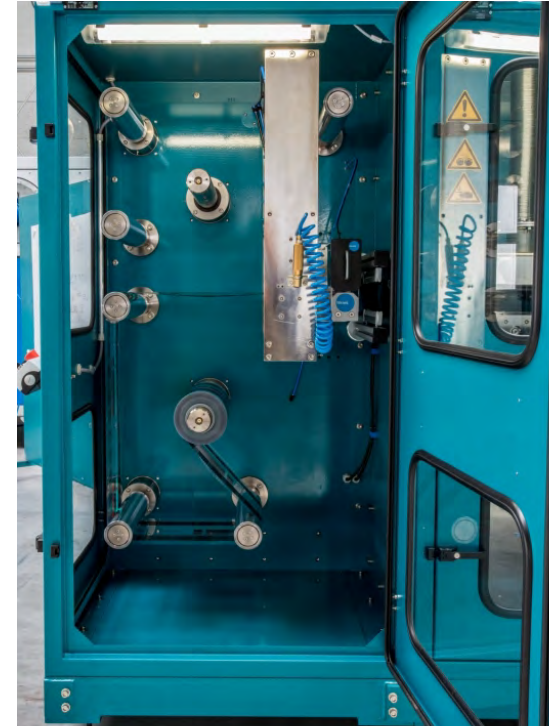
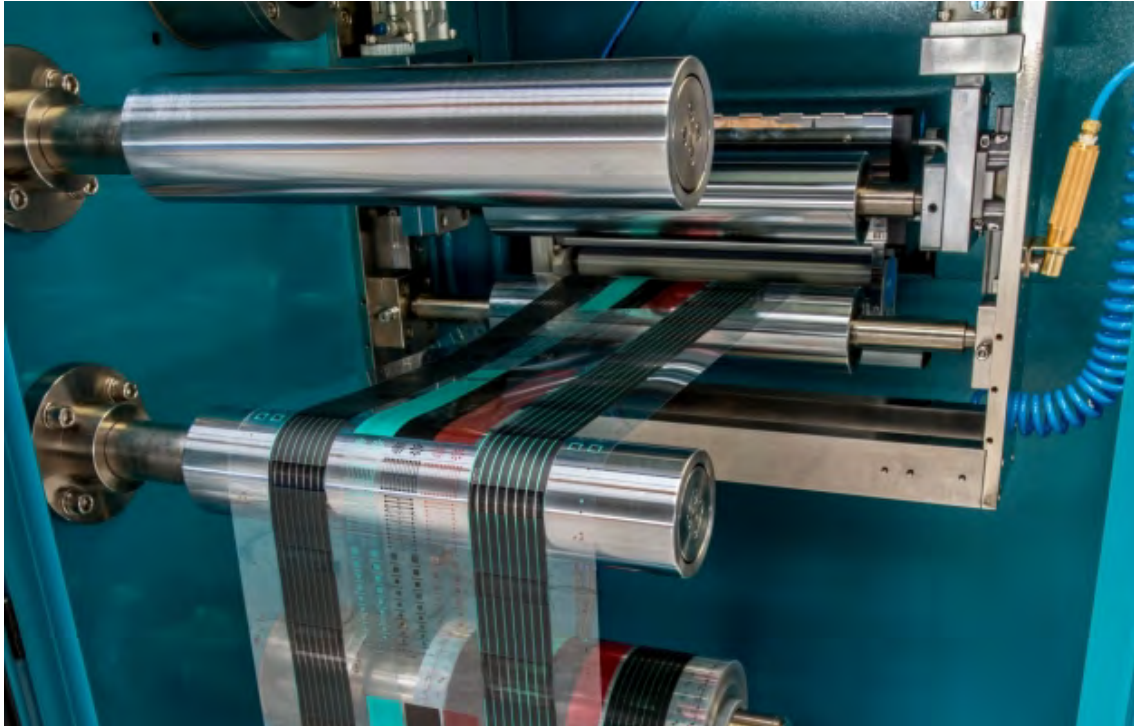
Substrate fixation

- ✓ Glass
- ✓ High precision vacuum
- ✓ Standard precision vacuum

Heating / crosslinking

- ✓ Heated air
- ✓ Infrared
- ✓ UV

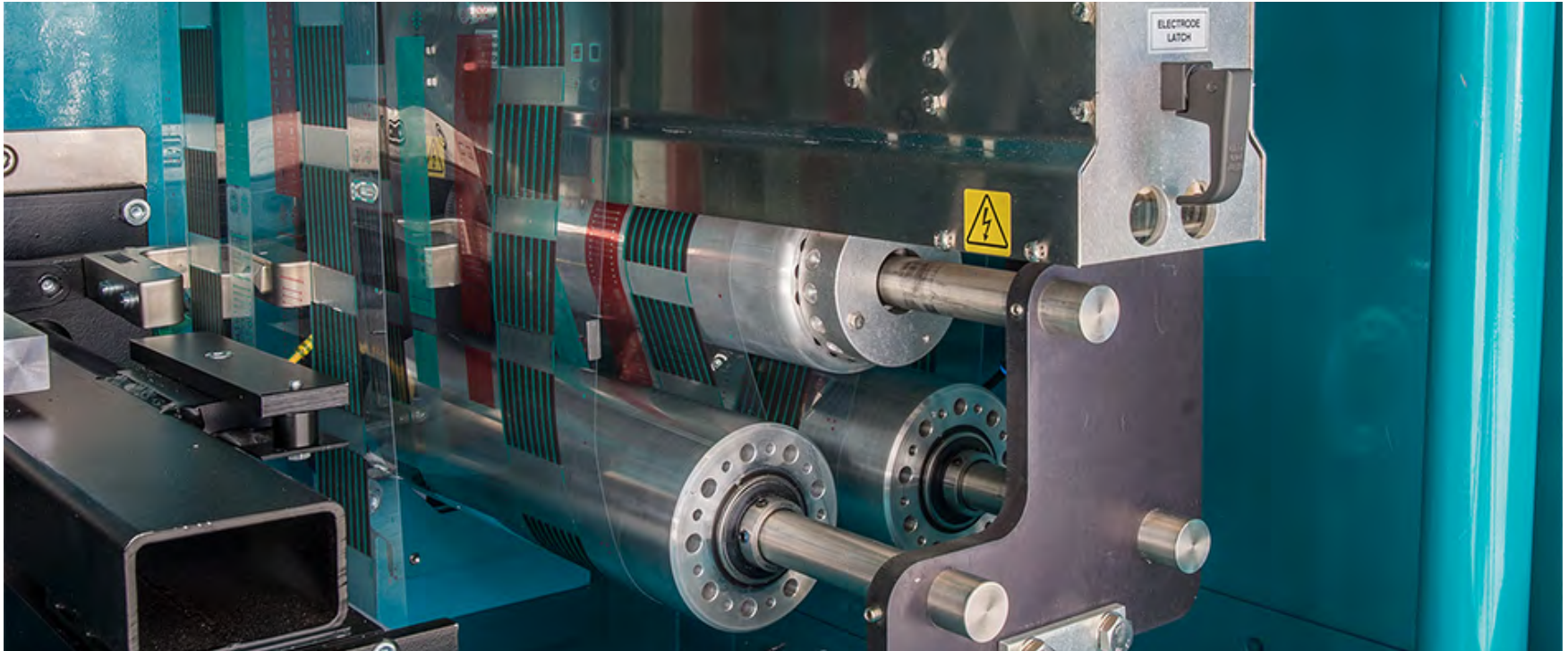
Unwinder and delamination



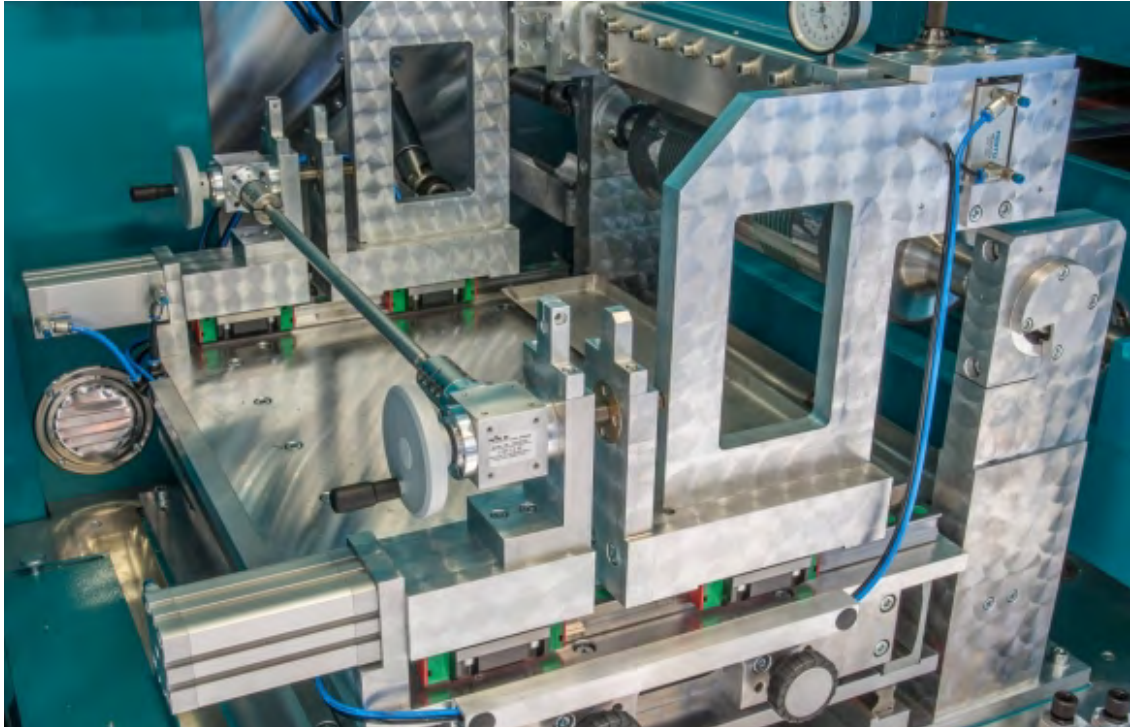
Contact cleaning with bath system



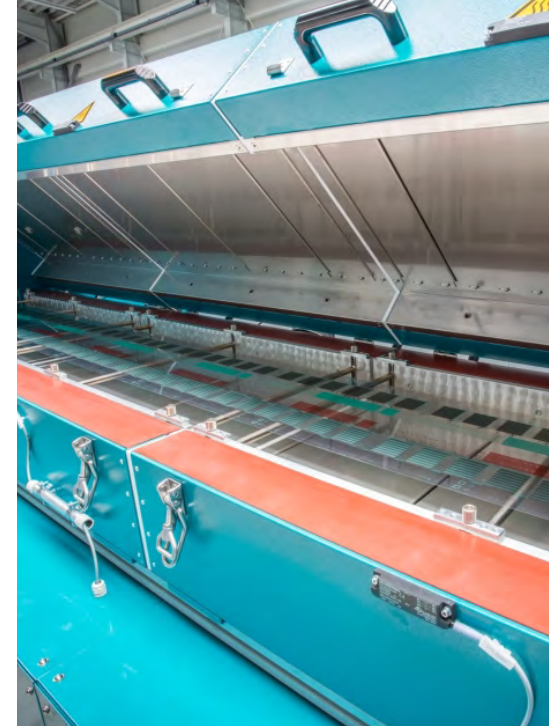
Corona station



Slot die coating device on trolley



Dryer



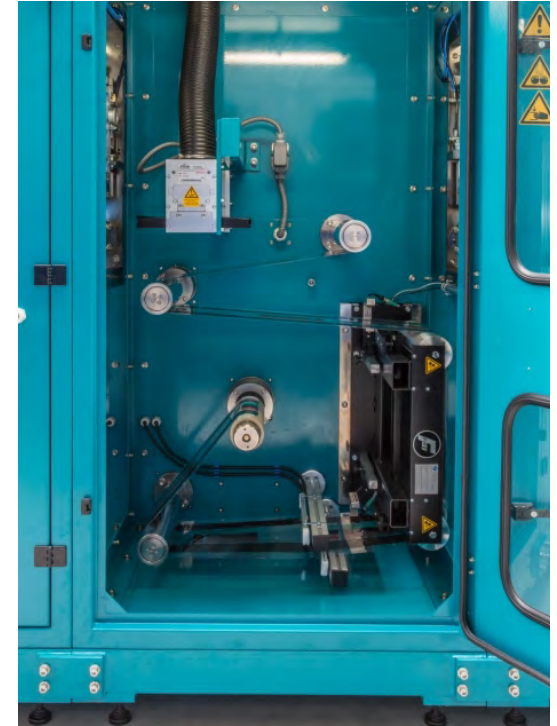
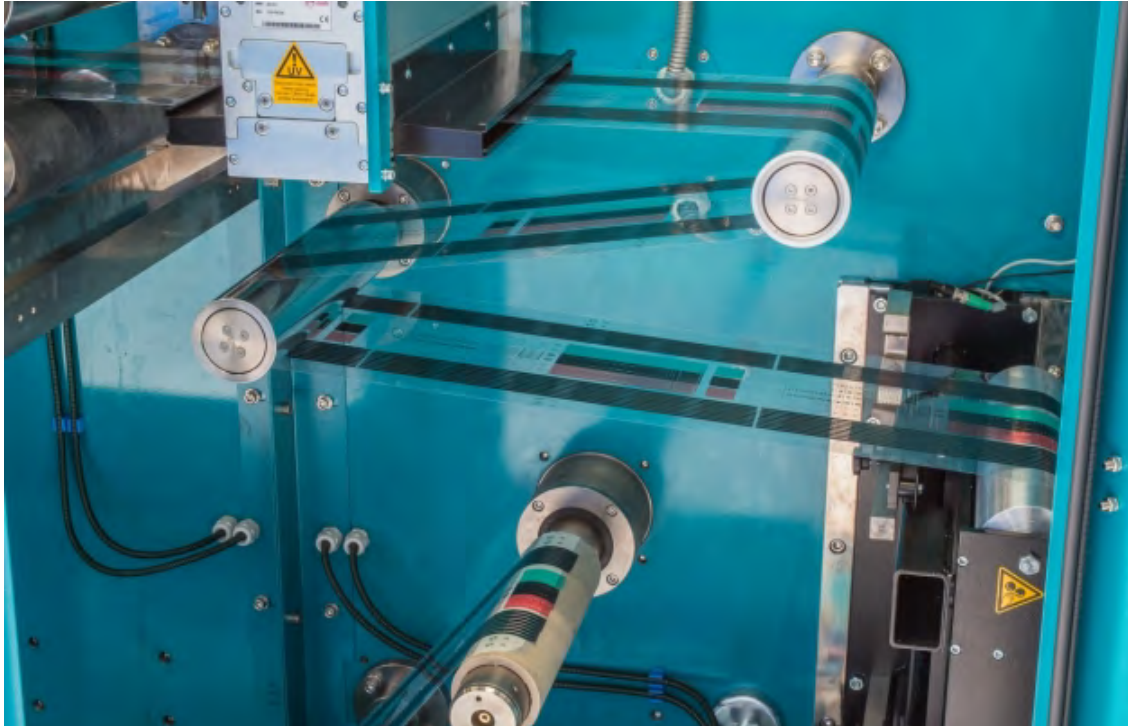
Edge sealing system



Lamination unit



UV unit and rewinder



Pulling device and cutting system



Backside of the unit



Summary

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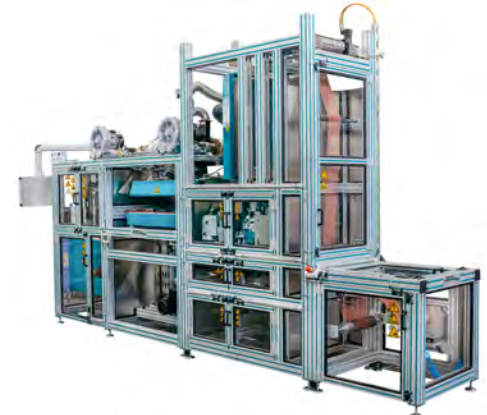
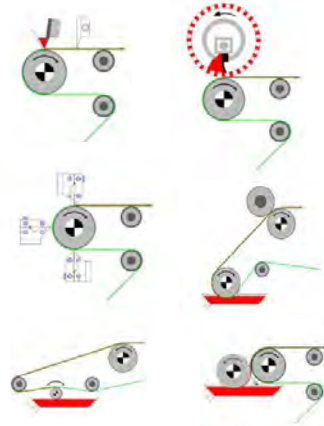
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Summary

Basecoater
made
Custom

Specifications



Doctor
blade

Dipping

Engraved
roller

Slot die

Micro
roller

Rotary
screen

>30
application
systems

Technical specifications in detail

Operating options

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

Dryer

- ✓ Hot air (UV, IR on demand)

Coating options

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

Dimensions size

- ✓ Depending on configuration (LxBxH)

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)

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Summary

For small R2R trial runs!

The customer benefits:

- ✓ Modular coating/printing systems
- ✓ High resolution and registration accuracy
- ✓ Near to production layouts
- ✓ State-of-the-art curing, drying and crosslinking
- ✓ Nanoimprint, laser, inkjet and lithography moduls available
- ✓ Nitrogen environment as option
- ✓ Clean room compatible

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.

Sales department:
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Thank you



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