

Coatema

Coatema Test Solution

05/12/2023

MEMBER OF ATH

Agenda

- 1. Introduction
- 2. Test Solution 2nd Generation S2S
- 3. Test Solution 2nd Generation R2R
- 4. Options & specifications
- 5. Summery



1.

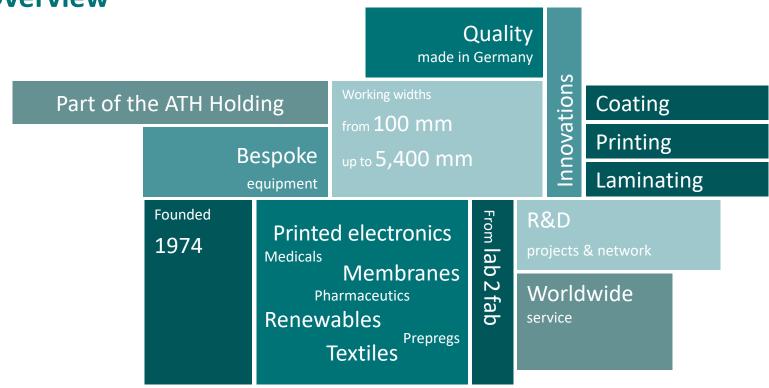
Introduction



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

2.

Test Solution 2nd Generation S2S





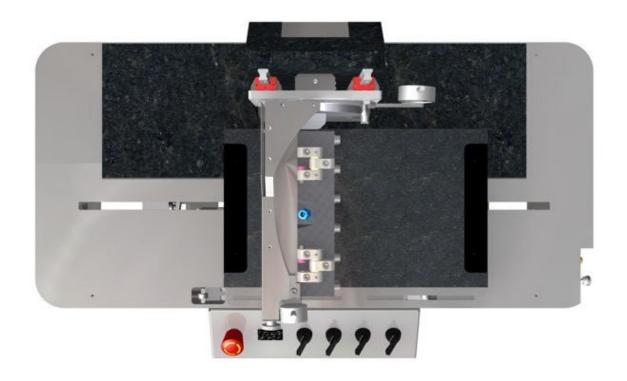
Overview of product features & options



LAYOUT FEATURES (as shown in drawing)	
1	Slot die
2	Doctor blade
3	Standard precision granite vacuum table
4	Cantilever design
5	Pressured air cylinder (no power requirement)
6	Alternative version with standard drive



Overview





Overview



Coating systems

- ✓ Slot die
- ✓ Doctor blade

Substrate fixation

✓ Standard precision granite vacuum table

Drive system

- ✓ Pressured air cylinder (no power requirement)
- ✓ Alternative version with standard drive

Design features

- ✓ Cantilever design
- ✓ Slot die parts



Options







Doctor blade

Granit table

Slot die

05/12/2023



Technical specifications in detail

Coating options

✓ Slot die and doctor blade

Operating options

- ✓ Pressured air
- ✓ Servo drive

Drying / Crosslinking

- ✓ Electrical heated dryer available
- ✓ UV LED as option

Slot die

- ✓ Slot accuracy from 2-4µ
- ✓ Hinged slot die system
- ✓ Slot die movable in Y-direction

Machine base

- ✓ Compact design
- ✓ Completly enclosed

Operating system

✓ Speed control panel

<u>Dimensions for A4 table</u> size

✓ 1000 x 450 x 462 mm (BxTxH)



The customer benefits

- ✓ Small scale R2R unit easy to use
- ✓ Small amount of inks being used less trial cost
- ✓ Reproducible results scalable R&D
- ✓ Integrated drying
- Lamination station as option
- ✓ Slot die or doctor blade coating station
- ✓ Bespoke layouts available

3.

Test Solution

2nd Generation R2R





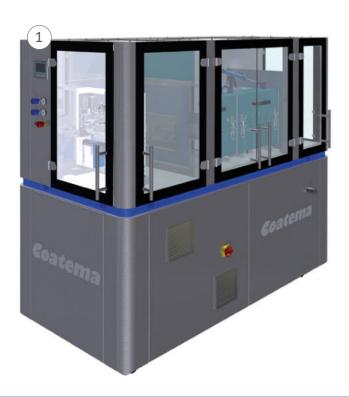
Overview of product features & options



LAYOUT FEATURES (as shown in drawing above)		
1	Coating system	
2	Unwinder	
3	Dryer	
4	Rewinder	
5	Stainless steel enclosure	



Overview of product features & options



Siemens S7 Control system



Overview



Coating systems

- ✓ Slot die
- ✓ Doctor blade

Dryer

- ✓ Electrical heated dryer
- ✓ 2 x 500 mm as standard

Control system

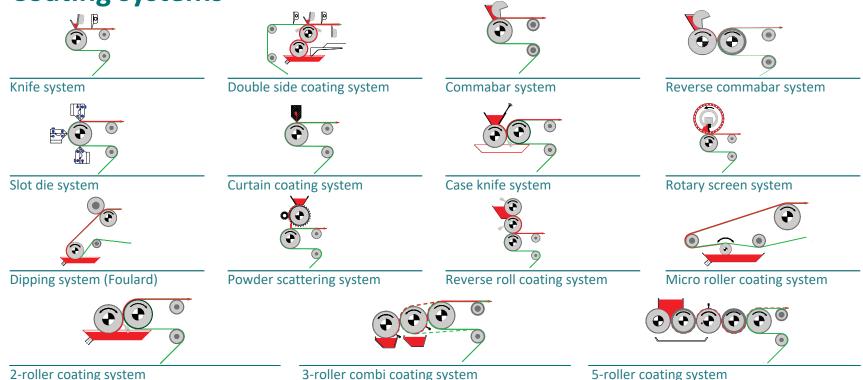
✓ Siemens S7

Design features

- ✓ Complete enclosure
- ✓ Industrial design

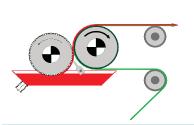


Coating systems

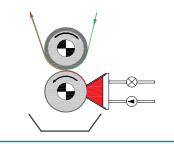




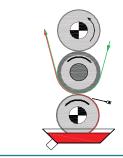
Printing systems



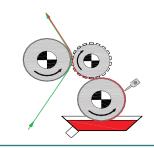
Engraved roller system



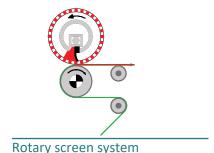
Gravure roller system

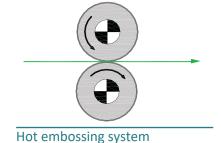


Gravure indirect system

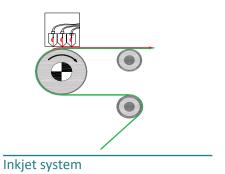


Flexography system









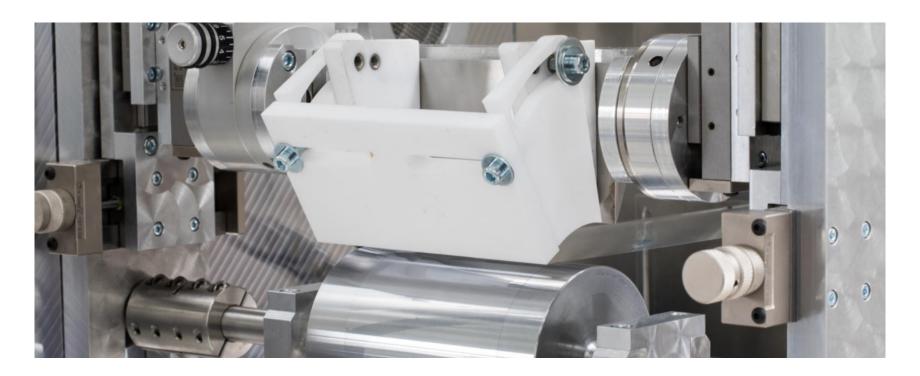


Coating chamber





Doctor blade system





2x 500 mm heated air dryer





Rewinder





The Test Solution R2R generation



4.

Options & specifications





Options specifications

The Test Solution facts:

- ✓ Continous R2R coating & laminating in one unit
- ✓ Size 2,130 x 1,100 x 1,950 mm (LxWxH) / Basic version (100 mm version)
- ✓ Working width: 100 mm to 130 mm, V: 0,1 5 m/min, F: 10 250 N
- ✓ Knife / commabar / slot die
- ✓ IP54 layout and 2x 500 mm electrical heated air dryer, 15 kW max.
- ✓ Dryer temperature: max. 160°C
- ✓ Lamination can be added easy to use for small test runs
- ✓ 400 V, 50 Hz AC, CEE-32 A, 5P, 6h



Standard and options







Doctor blade

Dryer

Lamination

Slot die

Slitting

26



Technical specifications in detail

Coating options

✓ Slot die, doctor blade and commabar

Mechanical speed

√ 0,1 – 5 m/min

Operating system

✓ Siemens S7

<u>Dimensions for the unit</u> (Standard layout)

√ 2130 x 1100 x 1930 mm (BxTxH)

Slot die

✓ Slot accuracy from $2 - 4\mu$

Winding diameter

✓ Max. 200 mm

Power consumption

(Standard layout)

✓ Approx. 15KW

Power supply

✓ 400 V, 50 Hz AC, CEE-32 A, 5P, 6h

Working width

- ✓ Max 140 mm
- ✓ Slot die working width
 - $5 100 \, \text{mm}$
- ✓ Knife / commabar
 - 5 130 mm
- ✓ Roller width 150 mm

Enclosure rating

✓ [DIN / EC]: IP 54

Compressed air supply

√ 6 Bar



Test Solution





Press Button to show the video

5.

Summery





The customer benefits

- ✓ The Test Solution R2R for small R2R trials runs!
- ✓ Small scale R2R unit easy to use
- ✓ Small amount of inks being used less trial cost
- ✓ Reproducible results scalable R&D
- ✓ UV, IR or other drying, curing or crosslinking methods as option
- Low cost R2R lab operation

Coatema research & development centre



Do not hesitate to contact us!



The Test Solution S2S and R2R 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

Download broschures & presentations

















Thank you

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