





Overview

Introduction

Test Solution 2nd Generation S2S Test Solution 2nd Generation R2R

Options & specifications

Summery



Introduction

Summary

Test Solution 2nd Generation S2S Test Solution

2nd Generation

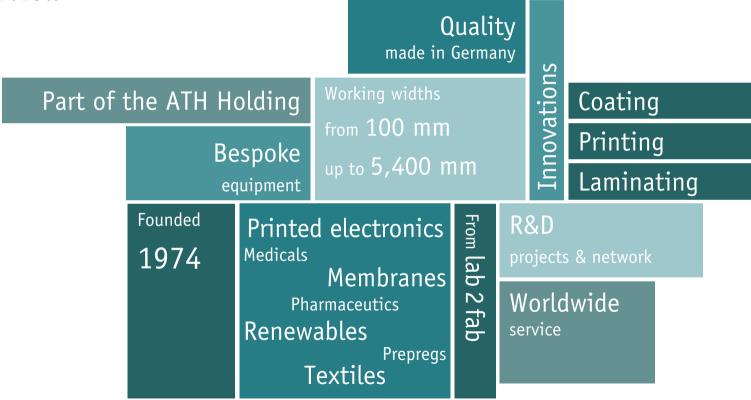
R2R

Options & Specifications

Introduction



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



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Overview of product features & options for the new Test Solution S2S

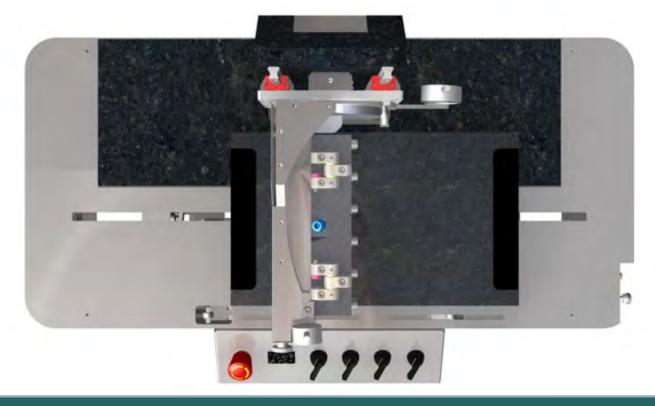


LAYOUT FEATURES (as shown in drawing)		
1	Slot die	
2	Doctor blade	
3	Standard precision granite vacuum table	
4	Cantilever design	
5	Pressured air cylinder (no power requirement)	
6	Alternative version with standard drive	

Test Solution 2nd Generation Sheet to Sheet (S2S)



Overview



Test Solution 2nd Generation Sheet to Sheet (S2S)



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

Test Solution 2nd Generation Sheet to Sheet (S2S)



Technical specifications in detail

Coating Options

✓ Slot die and doctor blade

Operating options

- ✓ Pressured air
- ✓ Servo drive

Operating System

✓ Speed control panel

Dimensions for A4 table size

√ 1000 x 450 x 462 mm (BxTxH)

Slot die

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

Machine base

- ✓ Compact design
- ✓ Completly enclosed

Drying / Crosslinking

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



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



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lest Solution 2nd Generation R2R Options & specifications



Overview of product features & options for the new Test Solution R2R



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 for the new Test Solution R2R



1 Siemens S7 Control system



Overview



Coating systems

- ✓ Slot die
- ✓ Doctor blade

Dryer

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

Control system

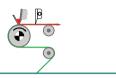
✓ Siemens S7

Design features

- ✓ Complete enclosure
- ✓ Industrial design



Coating systems



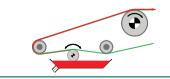
Knife system



Slot die system



Rotary screen system



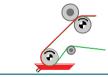
Micro roller system



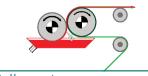
Double side system



Curtain coating system



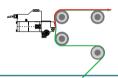
Dipping system (Foulard)



2 Roller system



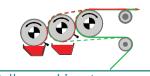
Commabar system



Hotmelt slot die system



Powder scattering system



3 Roller combi system



Reverse commabar system



Case knife system



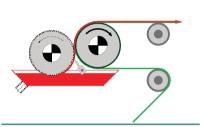
Reverse roll system



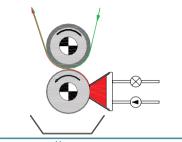
5 Roller system



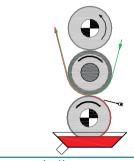
Printing systems



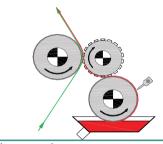




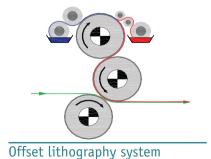
Gravure roller system

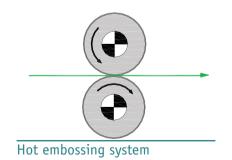


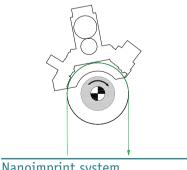
Gravure indirect system



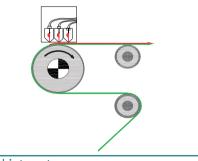
Flexography system











Inkjet system



Coating chamber





Doctor blade system





2x 500 mm heated air dryer





Rewinder





The Test Solution R2R generation





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rest Solution 2nd Generation S2S Test Solution 2nd Generation R2R

Options & specifications

Summary

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

Dryer

Lamination Slot die

Slitting



Technical specifications in detail

Coating options

✓ Slot die, doctor blade and commabar

Mechanical speed

✓ 0,1 - 5 m/min

Slot die

✓ Slot accuracy from 2 – 4µ

Winding diameter

✓ Max. 200 mm

Operating system

✓ Siemens S7

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

✓ 2130 x 1100 x 1930 mm (BxTxH)

<u>Power consumption</u> (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 mm
- ✓ Knife / commabar
 - 5 130 mm
- ✓ Roller width 150 mm

Enclosure rating

✓ [DIN / EC]: IP 54

Compressed air supply

✓ 6 Bar



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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 Test Solution



Do not hesitate to contact us!



The Test Solution 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.

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