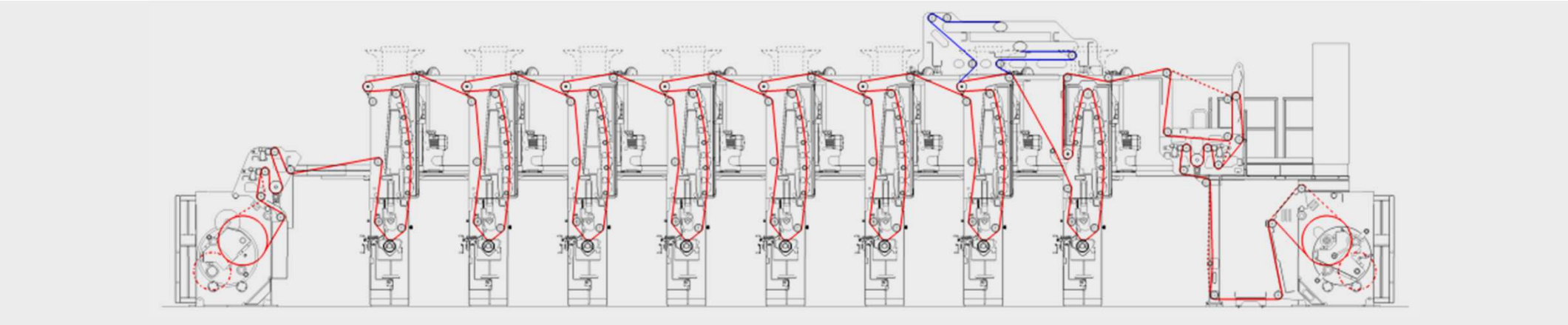
Rotomec 5002
Gravure Printing Press

BOBST

Rotomec 5002
Machine Design



Technical data	
Max web width	600 to 1260 mm
Printing cylinder repeat	380 to 800 mm
Max. mechanical speed	350 m/min
Web tension	3,5 to 35 Kg.
Heating system	Steam - Thermal oil - Electric
Dryer inside length	1,75 m or 3 m
Web direction	Right to Left or Left to Right

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General Overview
Machine Design

- ES (Electronic Shaft)
- Chuck system for printing unit
- Chuck system for winders

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Technology from more than **400 Electronic Shaft** presses in the market

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Duplex Unwinder
Shaftless type

- Max. reel diameter 820 mm
- Core width from 600mm to 1350mm (without adapters)
- Automatic splice in both direction at maximum speed, from 200 mm new reel diameter
- Electronic safety barrier

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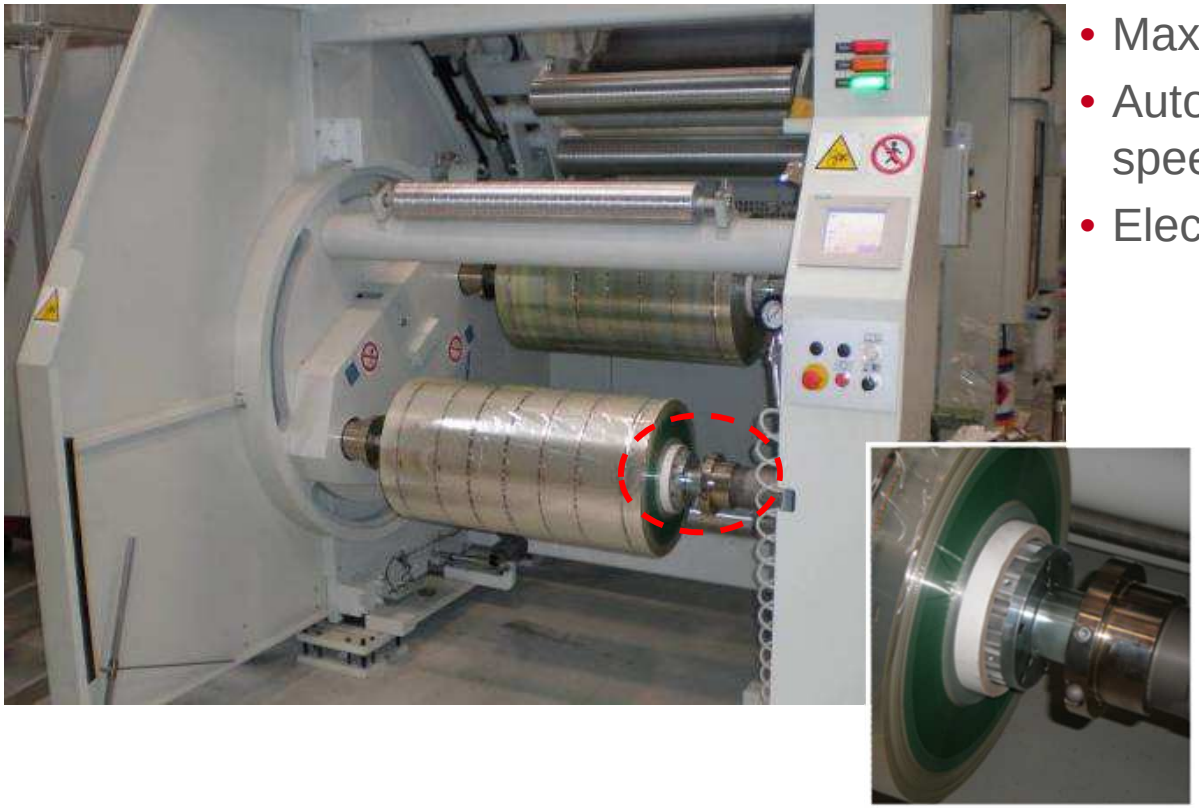
Duplex Unwinder
Shafted type - option



- Max reel diameter 1020 mm
- Automatic splice in both directions at maximum speed, from 350 mm new reel diameter
- Electronic safety barrier

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Infeed Section
Features

- Low friction dancer rollers with contactless sensor
- Tension accuracy ± 200 g
- BOBST underbase web guiding unit (integrated system)
- Prepared for installation of BOBST Corona Treater (single or double side)
- Prepared for preconditioning drum or preconditioning chamber

Printing Cylinder
Shaftless solution

- Cylinder repeat from 380 to 800 mm
- Cylinder face range from 900 to 1320 mm with the same cones
- System to protect chucks from ink splashes
- System to avoid ink penetration inside the printing cylinder

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Printing Unit Drive

- Driven **WITHOUT GEARBOX** for:
  - Excellent control
  - No wear and noise
  - Low power consumption

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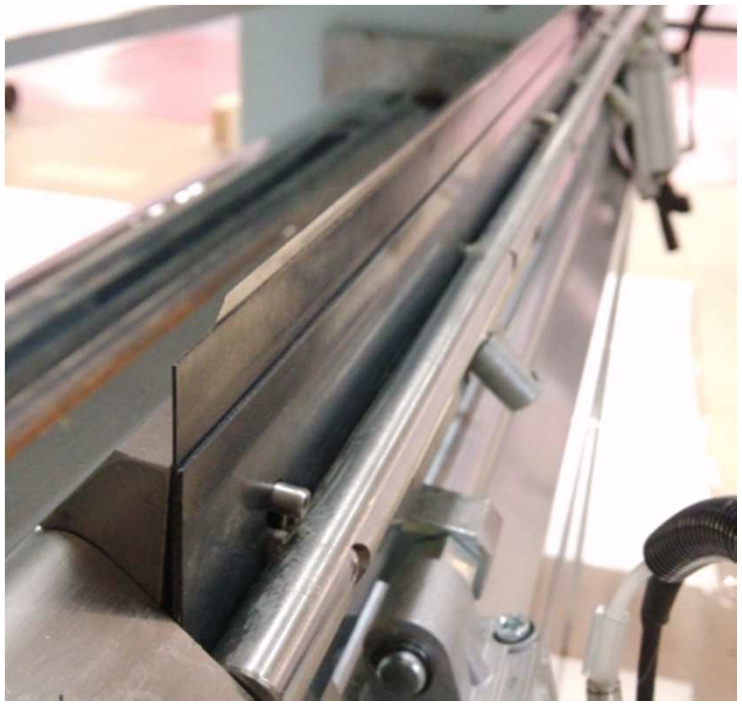
Doctor Blade
Integrated

Fast on-board change



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Doctor Blade
With removable holder - option

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Doctor Blade
Easy Set-up

DOCTOR BLADE ANGLE

CYLINDER REPEAT

		0	10	15	20	25	30	35	40	45	50
380	50°	X	X	X	X	X	50	43	X	X	X
	60°	X	X	X	X	49	42	38	X	X	X
420	50°	X	X	X	X	49	43	X	X	X	X
	60°	X	X	X	47	42	38	X	X	X	X
480	50°	X	X	X	49	42	38	X	X	X	X
	60°	X	X	46	41	37	34	X	X	X	X
500	50°	X	X	48	42	38	35	X	X	X	X
	60°	X	46	41	37	34	31	X	X	X	X
540	50°	X	47	42	38	34	32	X	X	X	X
	60°	52	40	36	33	30	28	26	X	X	X
580	50°	X	41	37	34	31	29	26	X	X	X
	60°	44	36	32	30	27	25	23	X	X	X
620	50°	46	37	33	31	28	26	24	X	X	X
	60°	39	32	29	26	24	22	21	X	X	X
660	50°	40	33	30	27	25	23	21	X	X	X
	60°	34	28	26	24	22	20	18	17	X	X
700	50°	36	29	27	24	22	21	19	17	X	X
	60°	30	25	23	21	19	17	16	14	13	X
740	50°	32	26	24	22	20	18	17	15	X	X
	60°	27	22	20	18	16	15	13	12	11	X
780	50°	28	23	21	19	17	16	14	13	12	X
	60°	23	19	17	15	14	12	11	10	9	8
820	50°	25	20	18	16	15	13	12	11	10	X
	60°	20	16	14	13	11	10	9	8	7	6
860	50°	21	17	15	14	12	11	10	8	7	7
	60°	17	13	11	10	9	7	6	5	4	4
900	50°	18	14	13	11	10	8	7	6	5	4
	60°	14	10	9	7	6	5	4	3	2	2
940	50°	15	12	10	9	7	6	5	4	3	2
	60°	11	8	6	5	4	3	2	1	0	-1

SLIDE INDICATOR

ROTATION INDICATOR

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Impression group

- **Integral pressure roller**
  - Roller change without tools
  - Roller change without release of web tension

- **Sleeve pressure roller** (option)
  - Sleeve change without tools
  - Sleeve change without release of web tension

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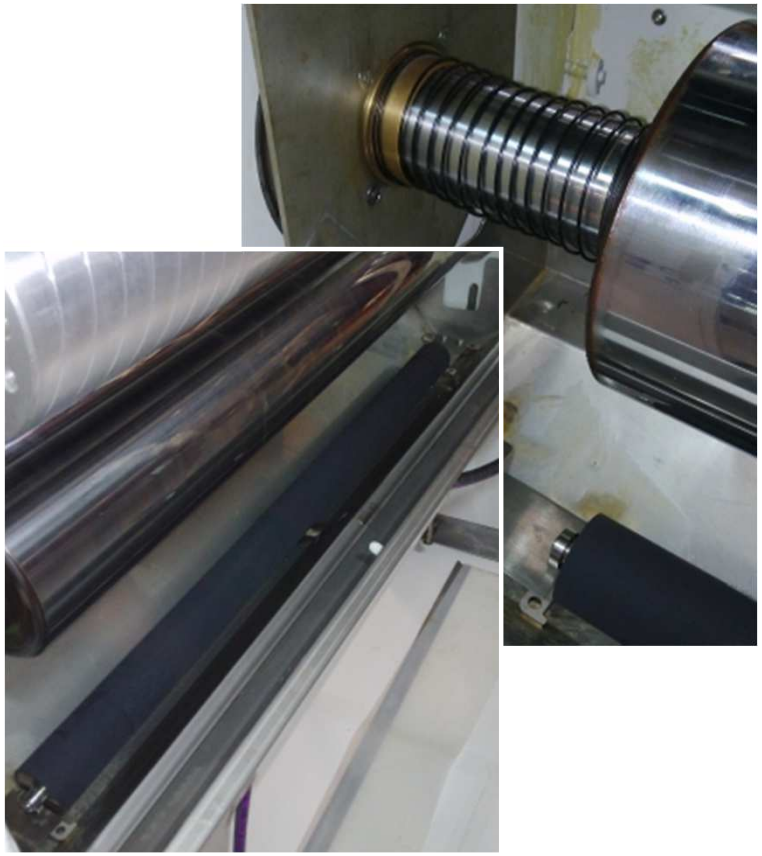
Inking System

- Designed for high speed printing
- Splash-free design
- Totally submerged inking roller
- Easy cleaning and set up
- Suitable for toluene based and toluene free inks



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Ink Supply and Washing

- Designed to use commercial tanks, up to 50 l
- High-flow pneumatic pump
- Washing system for printing cylinder, ink pan, pump and hoses
- Dedicated discharge of washing solvent, without leftover ink contamination

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BOBST Viscosity Control (option)

- In-line falling balls type with HMI controls
- Local controls on board of each printing unit, and centralized controls on main desk
- Integrated ink cooling system for constant ink temperature
- Automatic washing cycle

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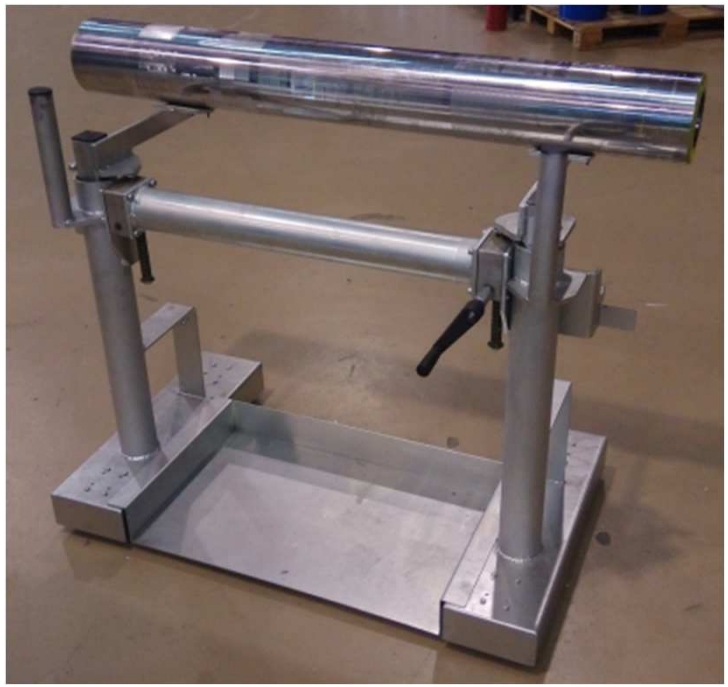
Service Trolley (option)

- For easier introduction and removal in case of heavy printing cylinders
- For easier introduction and removal of the inking pan
- Possibility to remove/introduce :
  - printing cylinder only
  - inking pan only
  - both printing cylinder and inking pan



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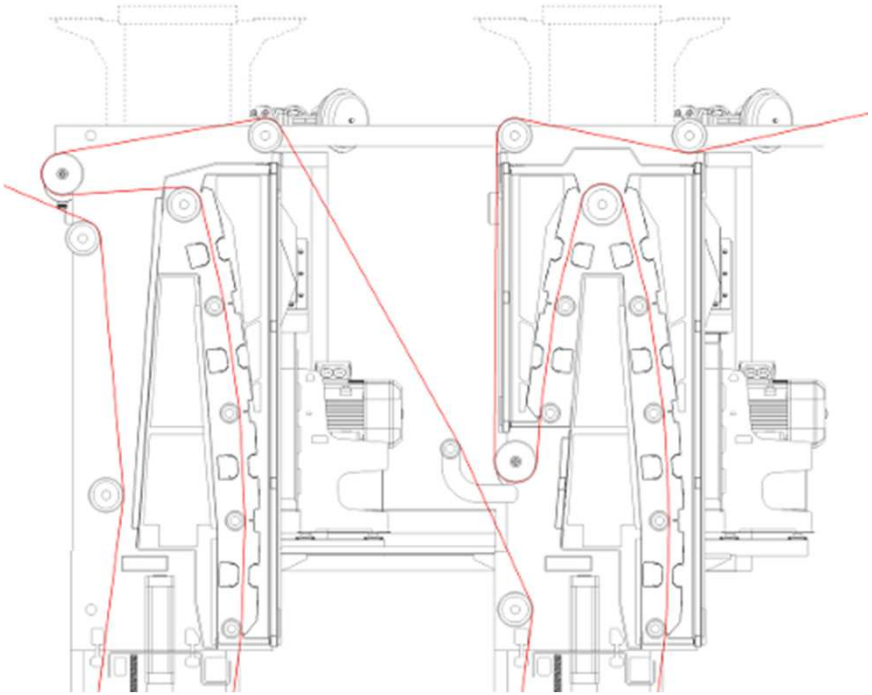
Dryer Section



1,75 m

3 m (1,75 m + 1,25 m)

- Book type opening for the best accessibility
- High efficiency nozzles design (mixed floating and impingement)
- Idle rollers lubricated for life
- Zinc plated steel nozzles

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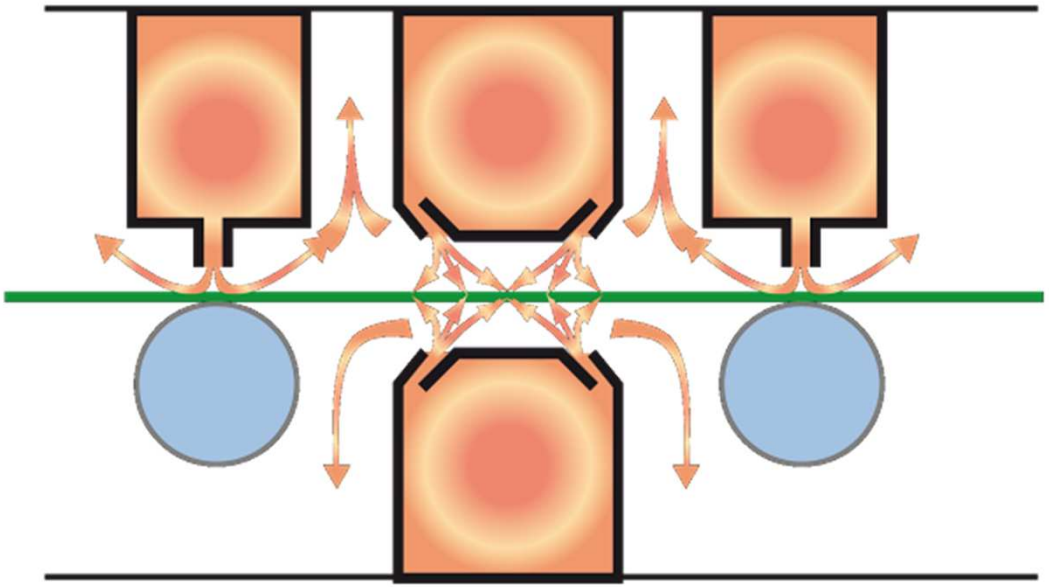
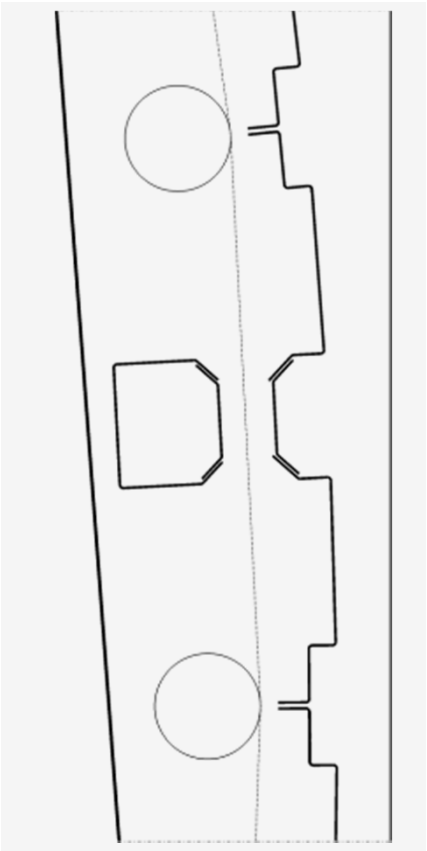
Dryer Section
High efficiency dryer

- High drying efficiency due to combined nozzles technology





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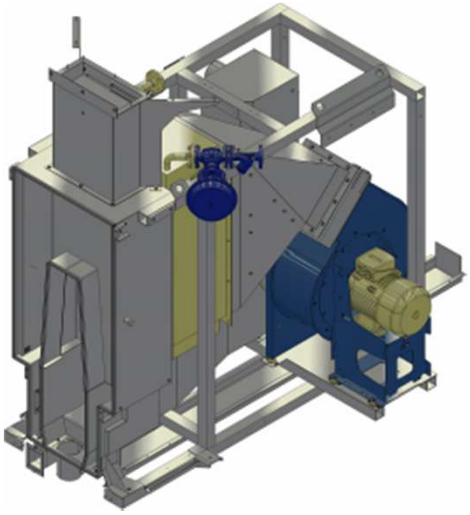
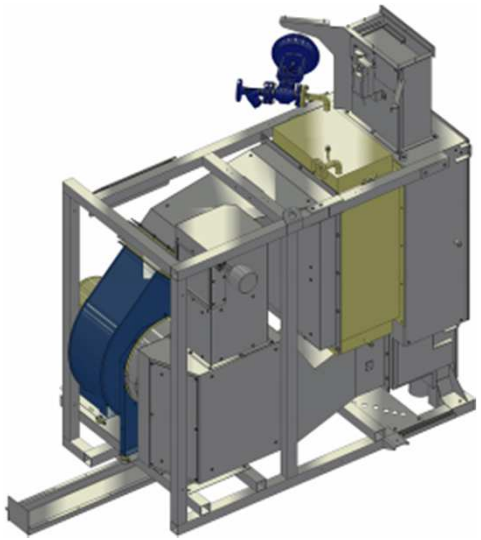
Dryer Section
Ventilation modules

- Centralized exhaust
- Individual inlet fan, heat exchanger, mixing box
- Recycles managed by means of motorized dampers





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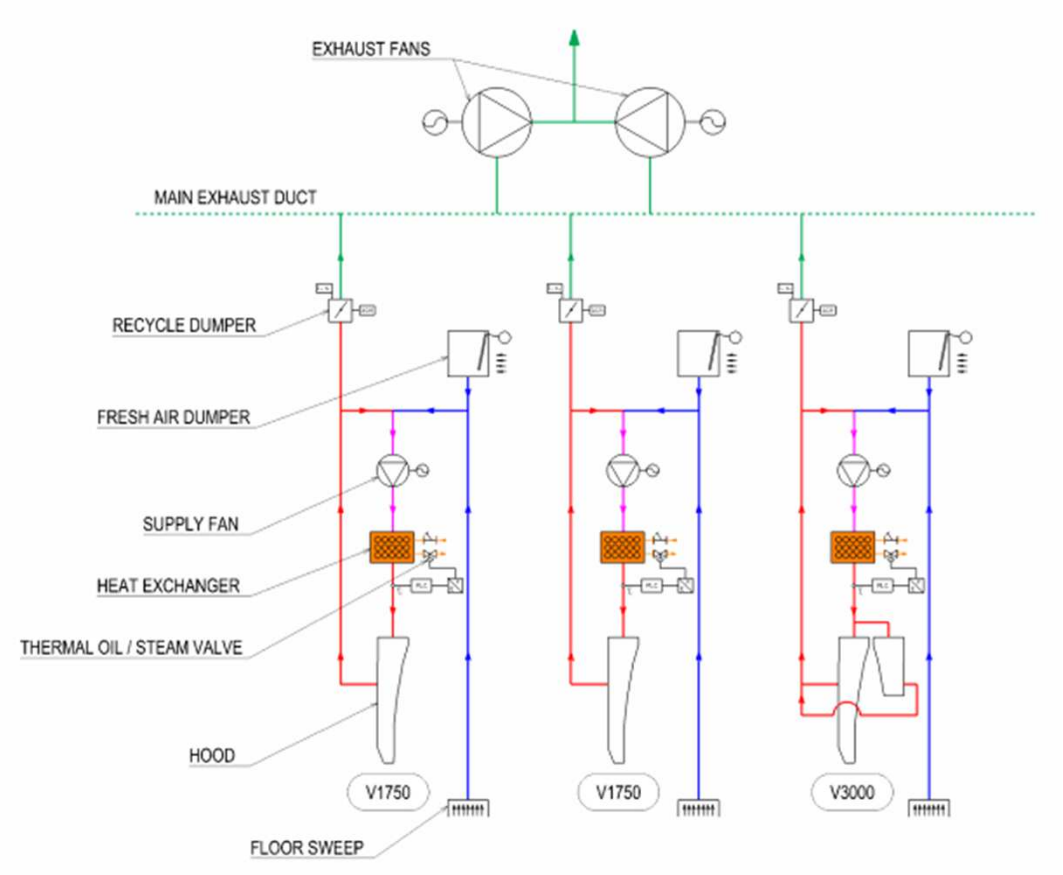
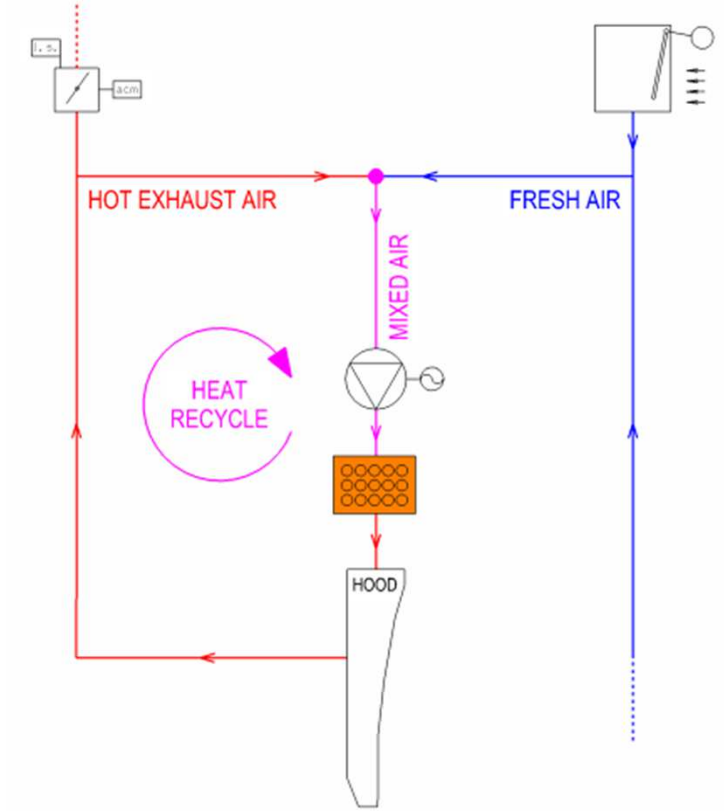
Dryer Section
Ventilation modules





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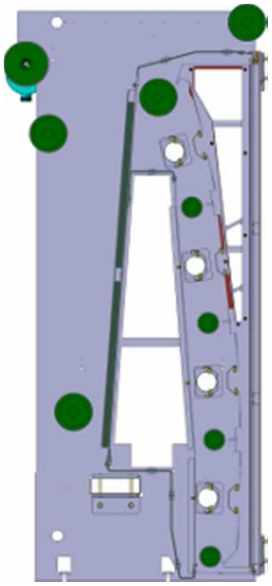
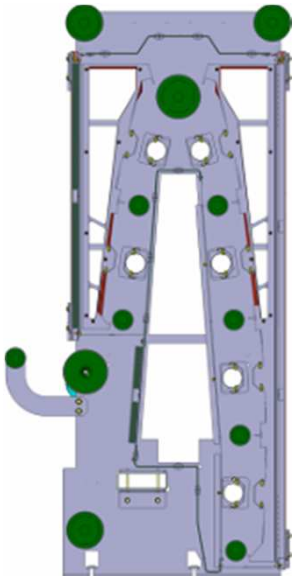
Ventilation chambers possibilities

Model	Length	Thermal regulation zone	Nozzles Type
V1750	1750	1	16 Floating + 5 Impingement
V3000	3000	1	24 Floating + 8 Impingement

V1750





V3000

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Duplex Rewinder
Shaftless type

- Max reel diameter 820 mm
- Core width from 600mm to 1350mm (without adapters)
- Automatic splice in both directions at maximum speed
- Lay-on roller
- Electronic safety barrier

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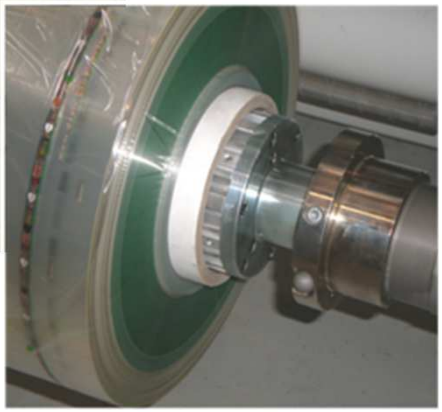
Duplex Rewinder
Shafted type - option



- Max reel diameter 1020 mm
- Automatic splice in both direction at maximum speed
- Lay-on roller
- Electronic safety barrier

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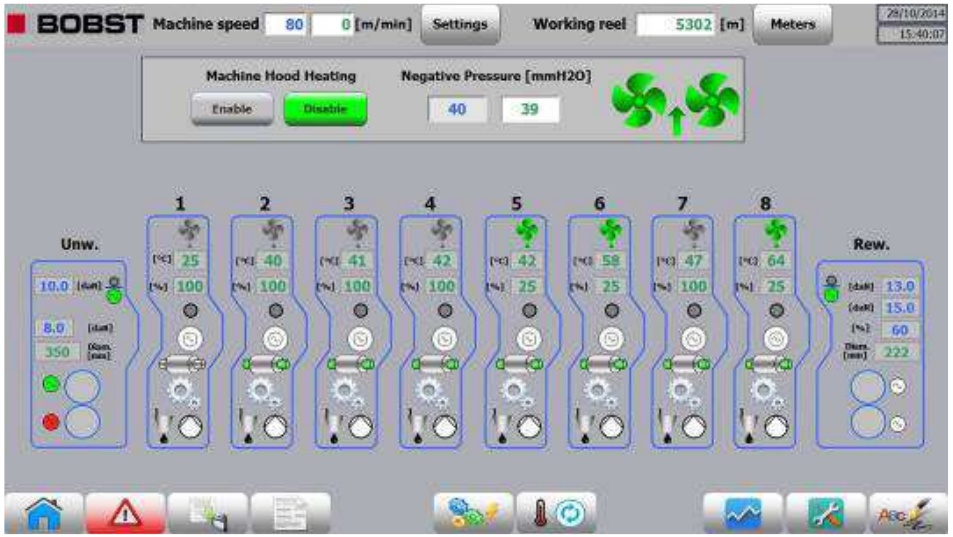
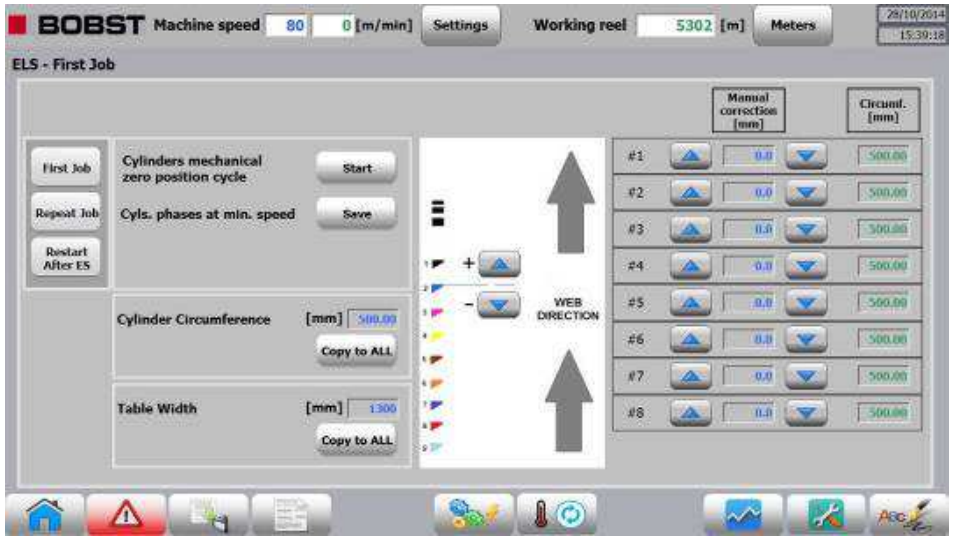
HMI

- Complete machine set-up memorized in the job recipe
- BOBST Registron and BOBST auxiliary equipment integrated





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Bobst integrated auxiliary equipment

Unique supplier for ***integrated equipment*** :

• Automatic Colour Register	BOBST REGISTRON
• Underbase Web Guide	BOBST
• Corona Treater	BOBST-MERO
• Viscosity Control	BOBST

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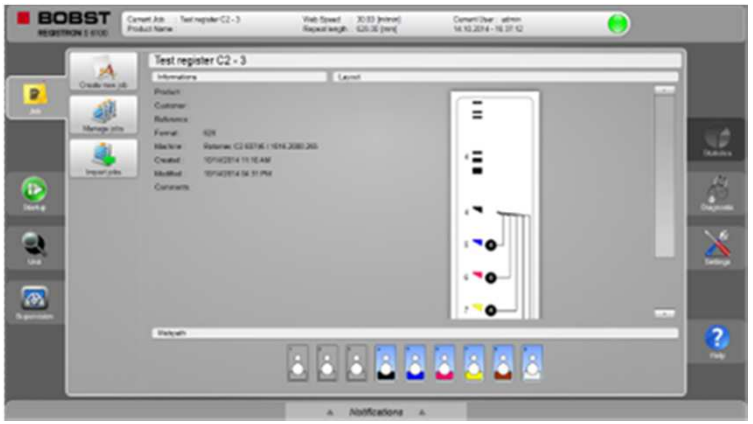
Rotomec ES technology integrated with BOBST Registron

- Integration between ES and Register Control for fastest correction time
- Single scanning head for quick changeover operation, it reduces the risk of mistakes in setup operation
- Unique integration on the market between ES and Register Control for top quality printed material and raw material waste saving
- The easiest Touch Screen operator interface on the market to reduce the setup operation and to have the higher production time
- Superior pale colors register reading thanks to 3-light scanning heads
- Virtually-zero time and waste for repeated job: all job parameters can be saved and retrieved



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Green Technology

- Limited electrical power consumption (8 colours → approx 65kW or 80kVA)
- Low thermal consumption (200 kW average)
- Low exhaust air (typically 20,000 m^3/h)
- Provision for oxidizer
- Low set-up waste

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