



Pilot Coater

Main Data

- Maximum Speed: 2500 m/min (structurally ready for 3500 m/min)
- Paper Web Width: 580 mm
- Paper Roll Diameter: max. 2000 mm
- Roll Core Diameter: 76 mm (150 mm only on Unwind station)

Coating Technologies

- 4 separate coating stations, 5 different application technologies
- Film Coater: Metso Paper OptiSizer¹
- Flooded Nip Coater: Beloit
- Jet Coater: Beloit Beljet²
- Short Dwell Time Applicator: Beloit Excel²
- Multi-Layer Curtain Coater: Internal design, various sub-suppliers

Controls

- Drives: ABB ACS 800³/ACV 700³/ACS 600³
- Process Control: ABB Industrial IT System³ 800xA
- Web Tension Control: ABB Pressductor System³ with PFTA111/PFTL101A Load Cells
- Quality Control System: Honeywell-Measurex MXOpen 7811⁴ (sources: Kr85, IR)
- Surface Temperature Measurements after each dryer: Raytek Corp. + internal design contact-less IR Temperature Sensors, type Thermalert MI
- Video Monitoring System: min. 1 camera per coating station

Fix-Points

- Before coating:
 - Vacuum Roll: Jagenberg-BMB
Non-marking vacuum roll surface (stainless steel netting)
3 segments: pre-suction (30°), main suction (135°), blow (90°)
Vacuum fan: total pressure difference 6.8 kPa, total air volume flow 500 m³/h
- After coating:
 - S-wrap 1 (own design): 5 rolls, bypass possibility
 - S-wrap 2 (original Beloit design, modified): 3 rolls

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