



## Pilot Coater

|                             |  |
|-----------------------------|--|
| <b>Main Data</b>            | <ul style="list-style-type: none"> <li>• Maximum Speed: 2500 m/min (structurally ready for 3500 m/min)</li> <li>• Paper Web Width: 580 mm</li> <li>• Paper Roll Diameter: max. 2000 mm</li> <li>• Roll Core Diameter: 76 mm (150 mm only on Unwind station)</li> </ul>   |
| <b>Coating Technologies</b> | <ul style="list-style-type: none"> <li>• 4 separate coating stations, 5 different application technologies</li> <li>• Film Coater: Metso Paper OptiSizer<sup>(1)</sup></li> <li>• Flooded Nip Coater: Beloit</li> <li>• Jet Coater: Beloit Beljet<sup>(2)</sup></li> <li>• Short Dwell Time Applicator: Beloit Excel<sup>(2)</sup></li> <li>• Multi-Layer Curtain Coater: Internal design, various sub-suppliers</li> </ul>  |
| <b>Controls</b>             | <ul style="list-style-type: none"> <li>• Drives: ABB ACS 800<sup>(3)</sup>/ACV 700<sup>(3)</sup>/ACS 600<sup>(3)</sup></li> <li>• Process Control: ABB Industrial IT System 800xA<sup>(3)</sup></li> <li>• Web Tension Control: ABB Pressductor System<sup>(3)</sup> with PFTA111/PFTL101A Load Cells</li> <li>• Quality Control System: ABB QCS800xA<sup>(3)</sup> <ul style="list-style-type: none"> <li>– Unwind scanner sensors: Basis weight, Moisture, 3-component Ash</li> <li>– Wind-up scanner sensors: Basis weight, Moisture, 3-component Ash, Direct-IR coat weight top and bottom</li> </ul> </li> <li>• Surface Temperature Measurements after each dryer: Raytek Corp. + internal design contact-less IR Temperature Sensors, type Thermalert MI</li> <li>• Video Monitoring System: min. 1 camera per coating station</li> </ul> |
| <b>Fix-Points</b>           | <ul style="list-style-type: none"> <li>• Before coating: <ul style="list-style-type: none"> <li>– Vacuum Roll: Jagenberg-BMB <ul style="list-style-type: none"> <li>○ Non-marking vacuum roll surface (stainless steel netting)</li> <li>○ 3 segments: pre-suction (30°), main suction (135°), blow (90°)</li> <li>○ Vacuum fan: total pressure difference 6.8 kPa, total air volume flow 500 m<sup>3</sup>/h</li> </ul> </li> </ul> </li> <li>• After coating: <ul style="list-style-type: none"> <li>– S-wrap 1 (own design): 5 rolls, bypass possibility</li> <li>– S-wrap 2 (original Beloit design, modified): 3 rolls</li> </ul> </li> </ul>   |

(1)Trademark of Metso

(2)Trademark of Beloit

(3)Trademark of ABB



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