

15th Day of Slovene Paper Industry

23. – 24.11.2011

**Modern headbox concepts
out of one hand**

Dr. Jürgen Bihler

Gebr. Bellmer GmbH Maschinenfabrik

www.Bellmer.de

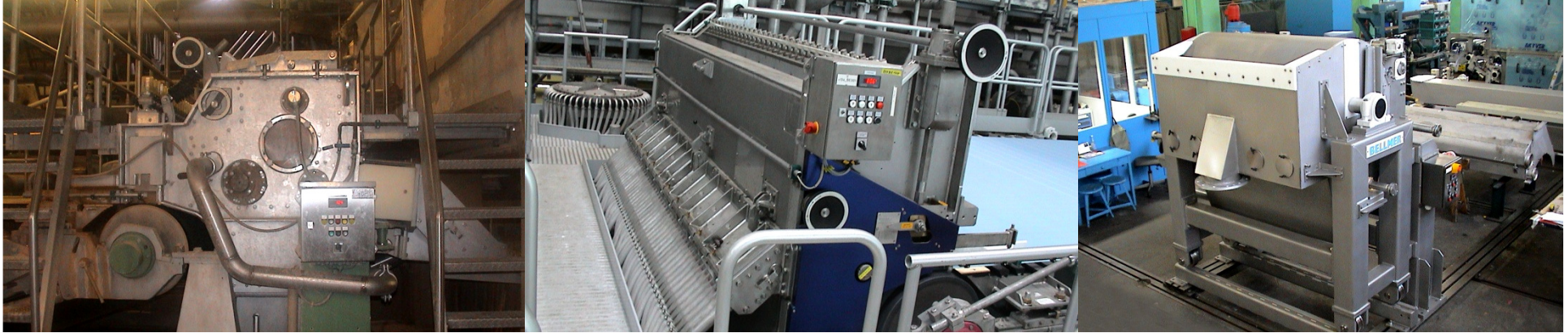


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PAPER TECHNOLOGY

High Tech Headboxes for any paper grade



Lochwalzenstoffaufläufe
EQUAL *STREAMER*

Hydraulische Stoffaufläufe
EQUAL *JETTER*

Rundsiebstoffaufläufe
EQUAL *FLOWER*

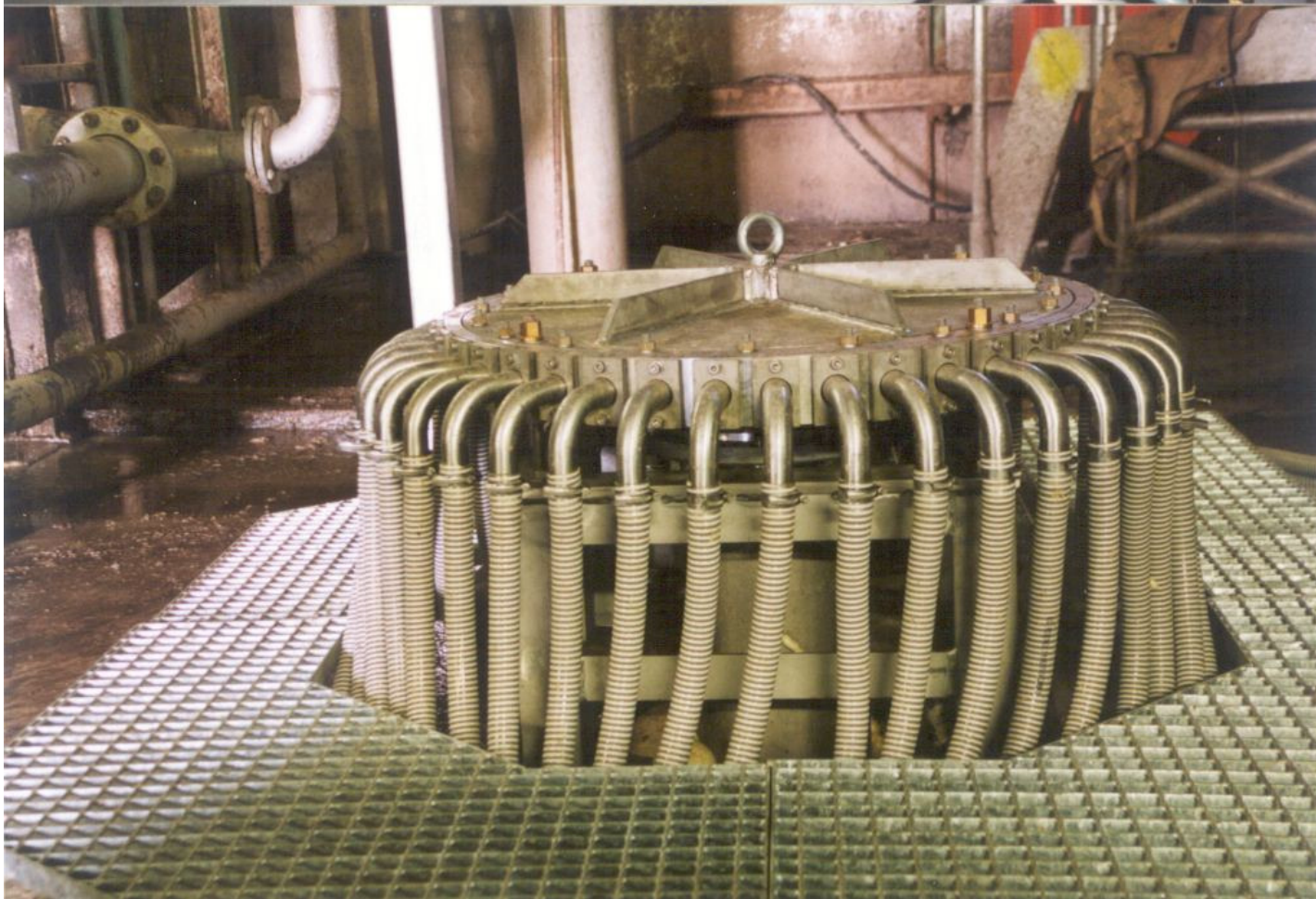


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High quality paper starts with good distribution...



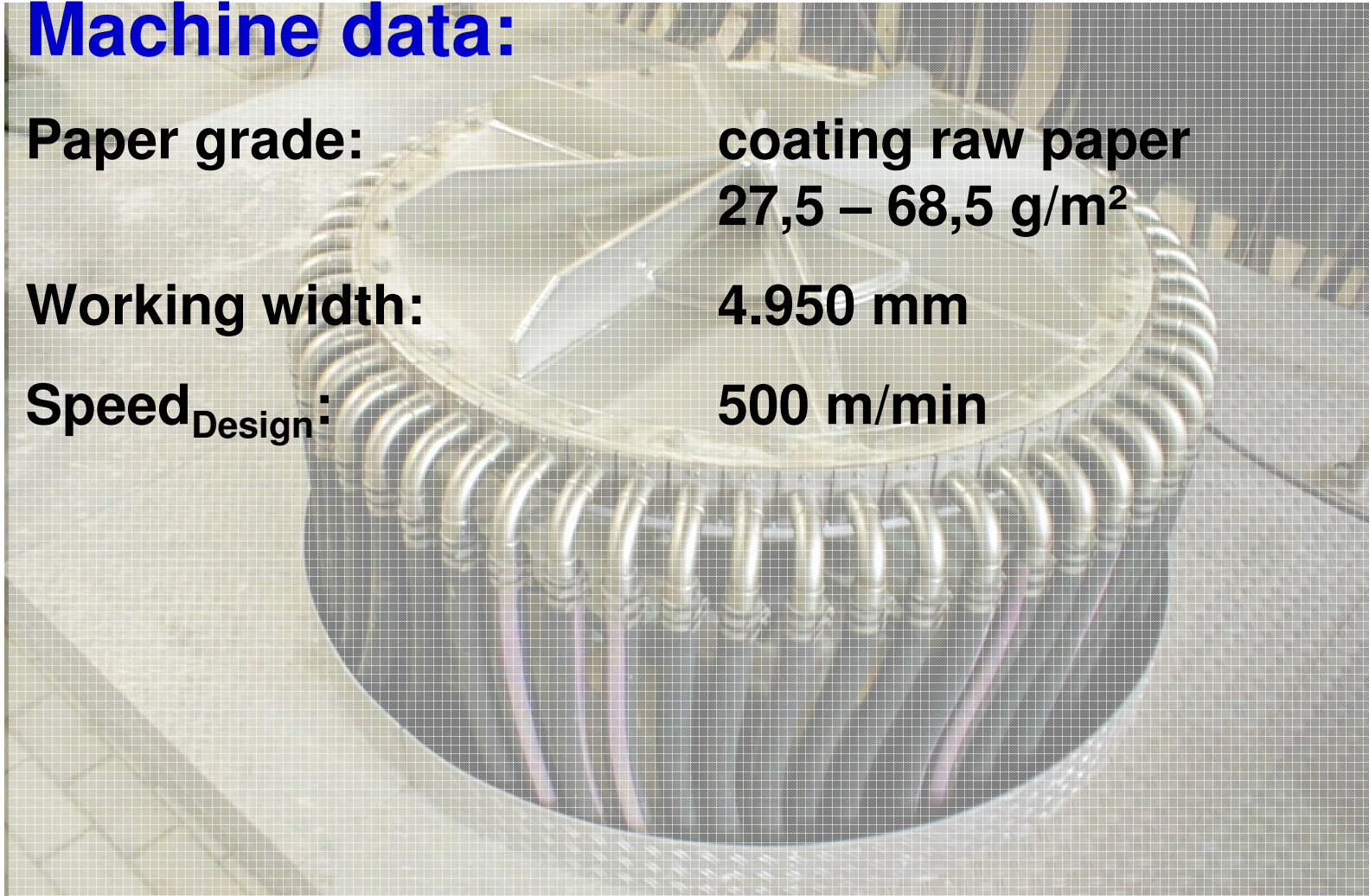
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Case study: replacement conical header with **TURBOCircler™**

Machine data:

Paper grade:	coating raw paper 27,5 – 68,5 g/m ²
Working width:	4.950 mm
Speed _{Design} :	500 m/min



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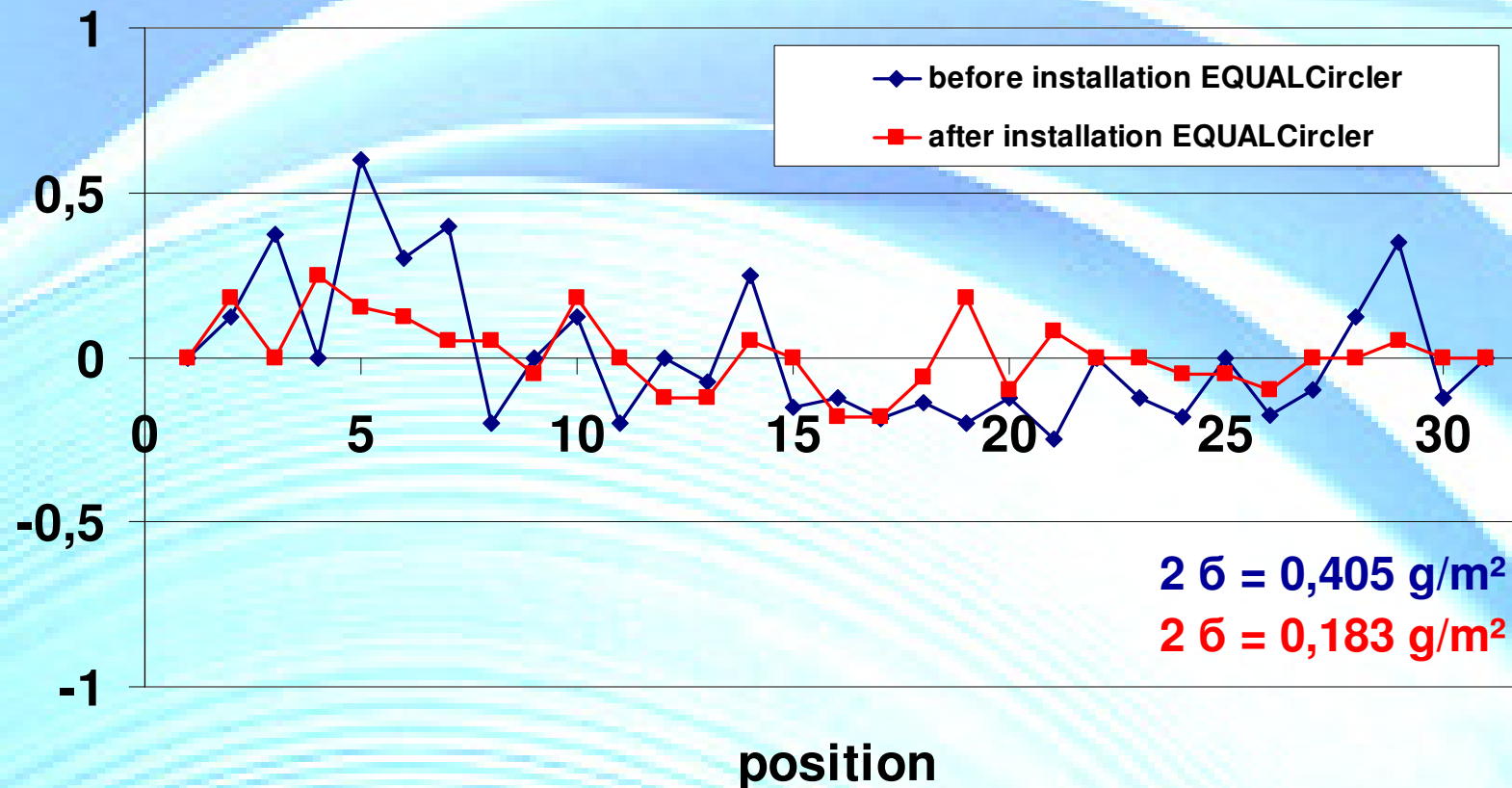
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Coating base paper before/after installation TURBOCircler™

2 σ -values
[g/m²]

Coating base paper 53,6 g/m²

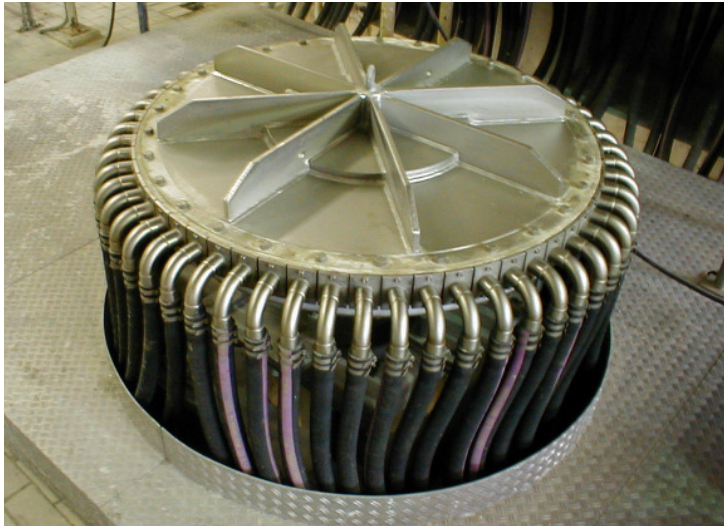


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TURBO Circler™ Product family



TURBO Circler™

- ▶ Optimum solution **without** dilution water control
- ▶ In multi-layer wire sections in positions without CD profiling
- ▶ With TURBO*Suspenser*



TURBO Circler Profile™

- ▶ Optimum solution **with** dilution water control
- ▶ In multi-layer wire sections always in the heavy-weight layer
- ▶ Without TURBO*Suspenser*

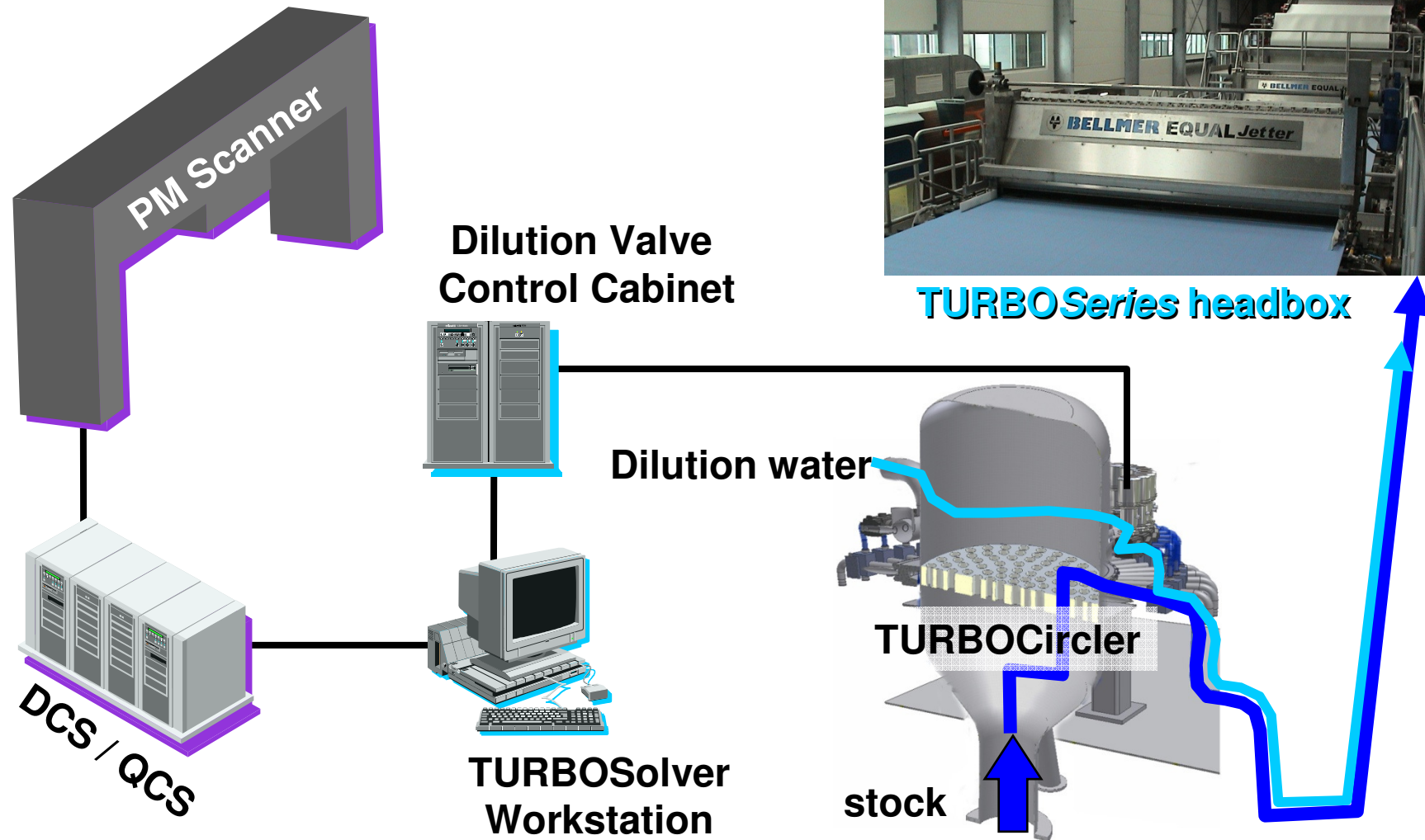


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TURBOCircler Profile™ system



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TURBOJetter™ Fluting & Testliner



Germany



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TURBOJetter™ Fluting & Testliner



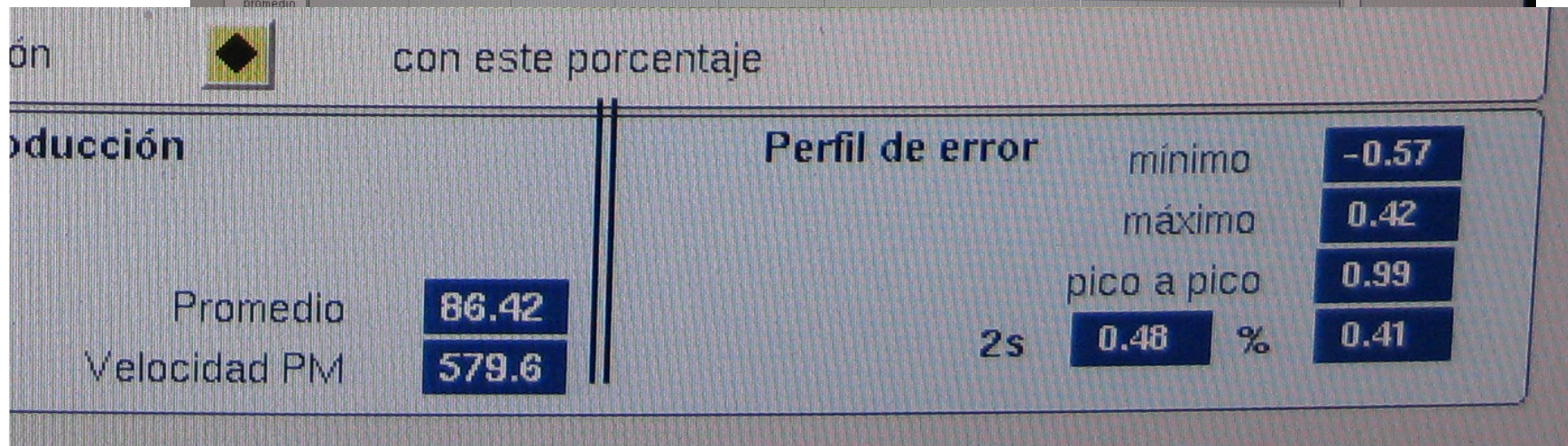
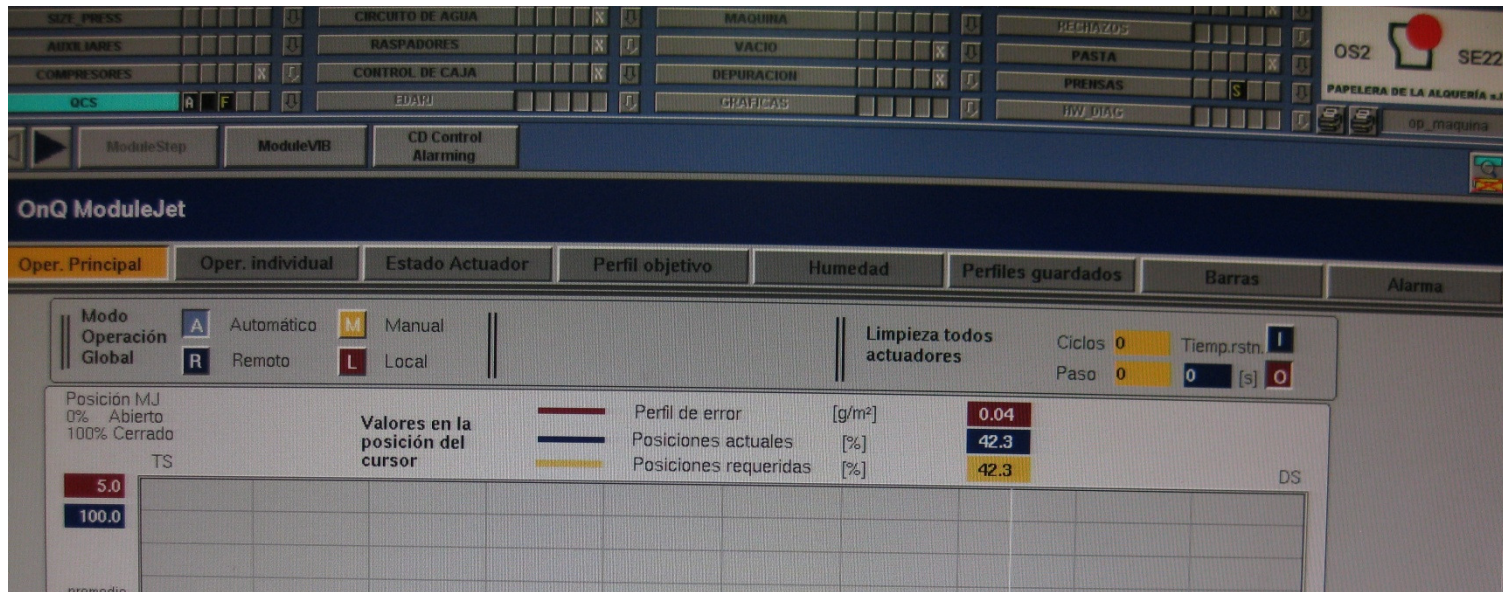
Spain



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TURBOJetter™ Fluting & Testliner



Spain



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Hydraulic headbox TURBOJetter for best paper quality

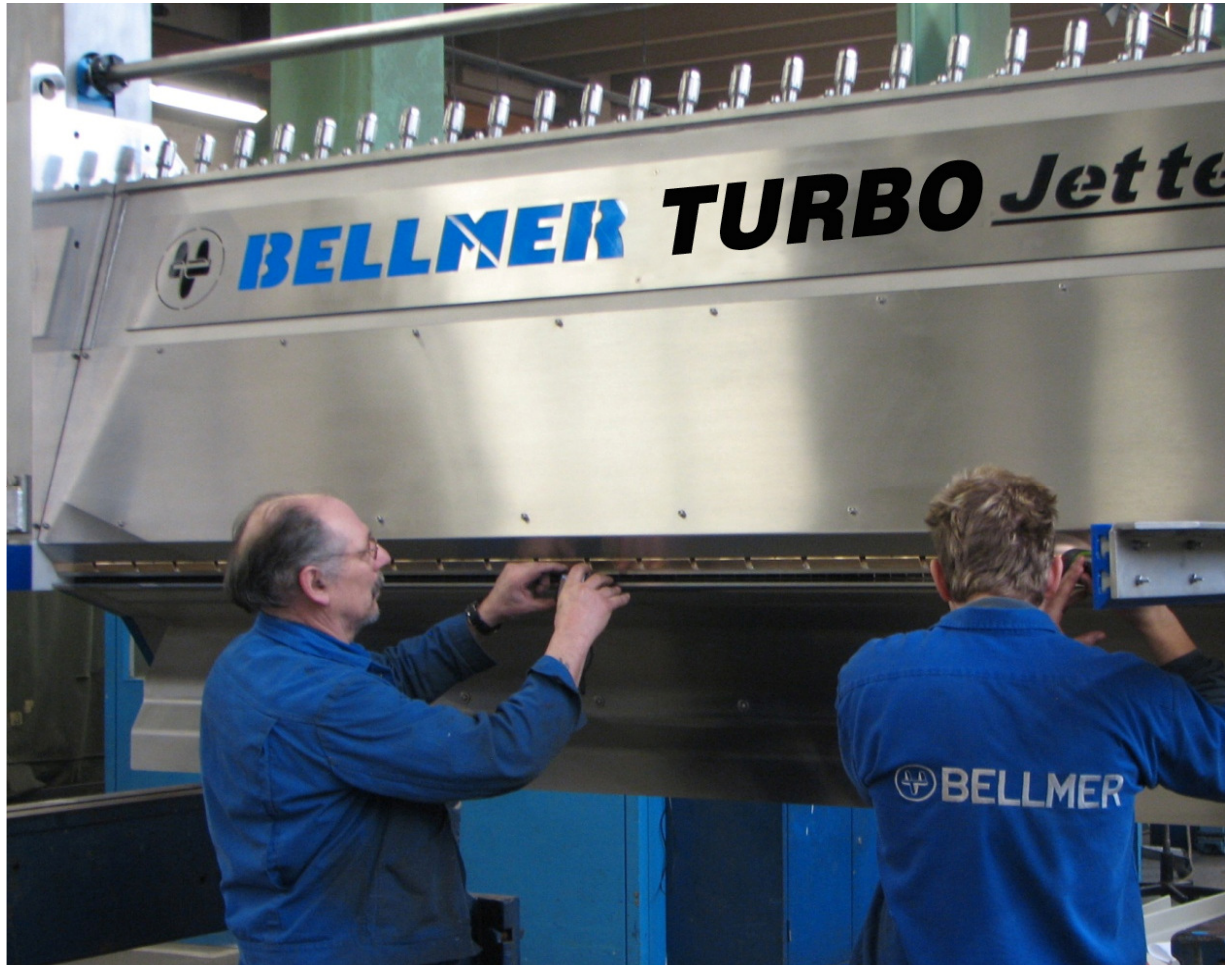


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BELLMER TURBOJETTER™

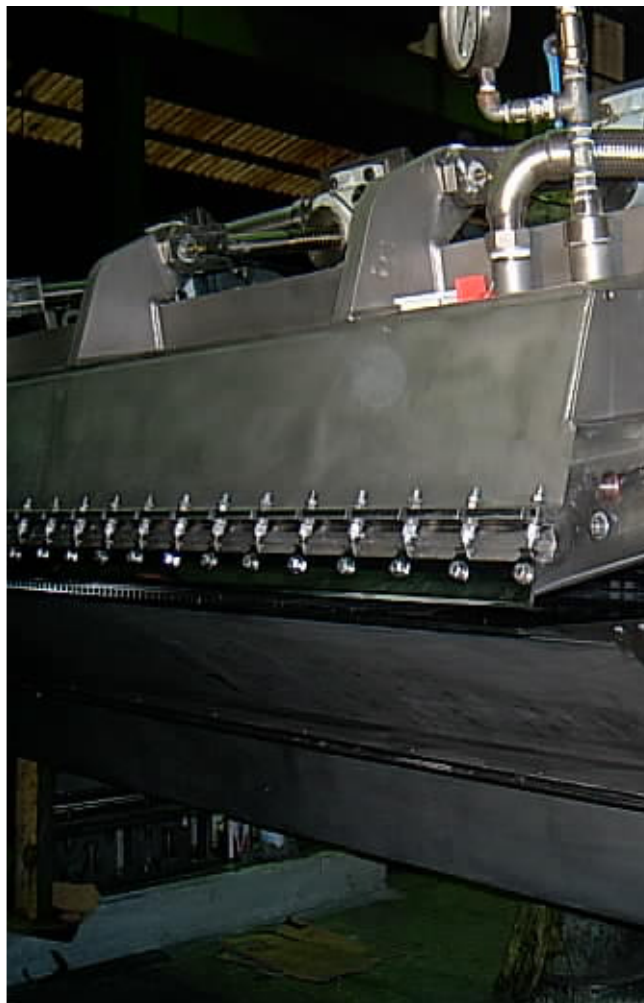
work shop assembly



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TURBOBlade Jetter™



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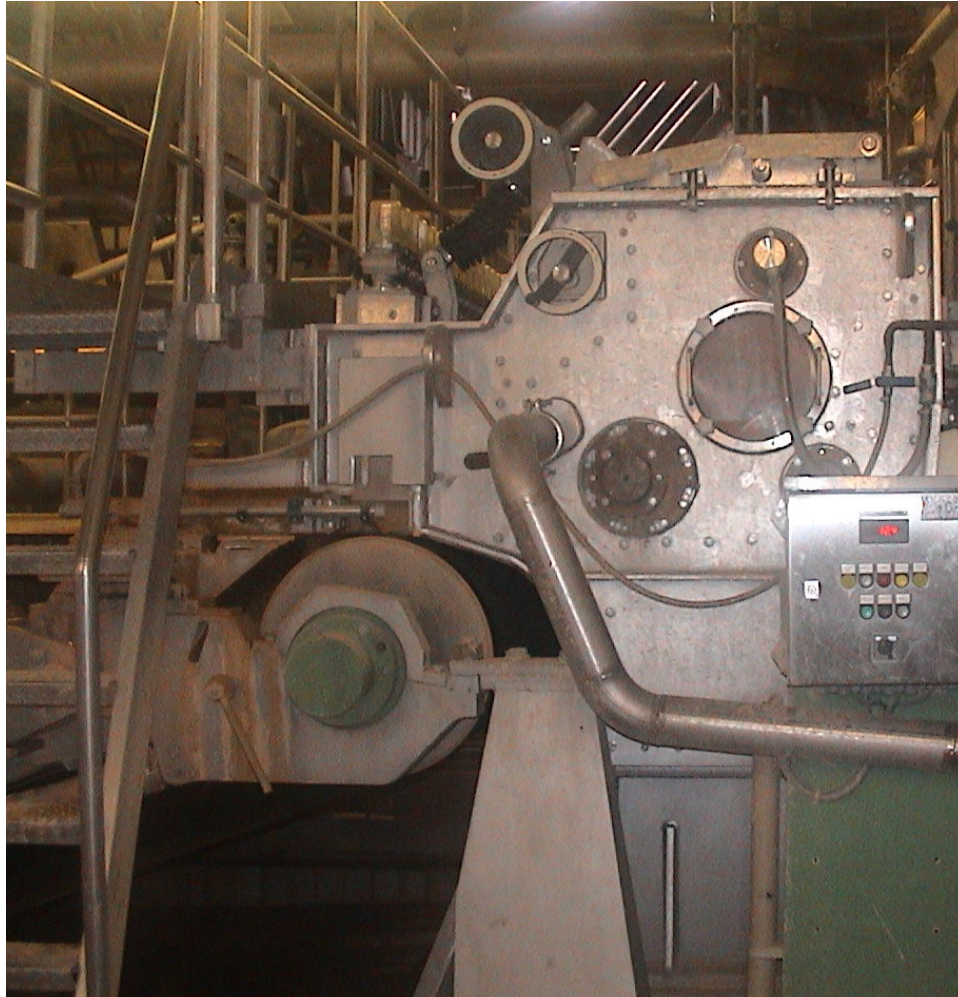
Allround production with **TURBO**STREAMER



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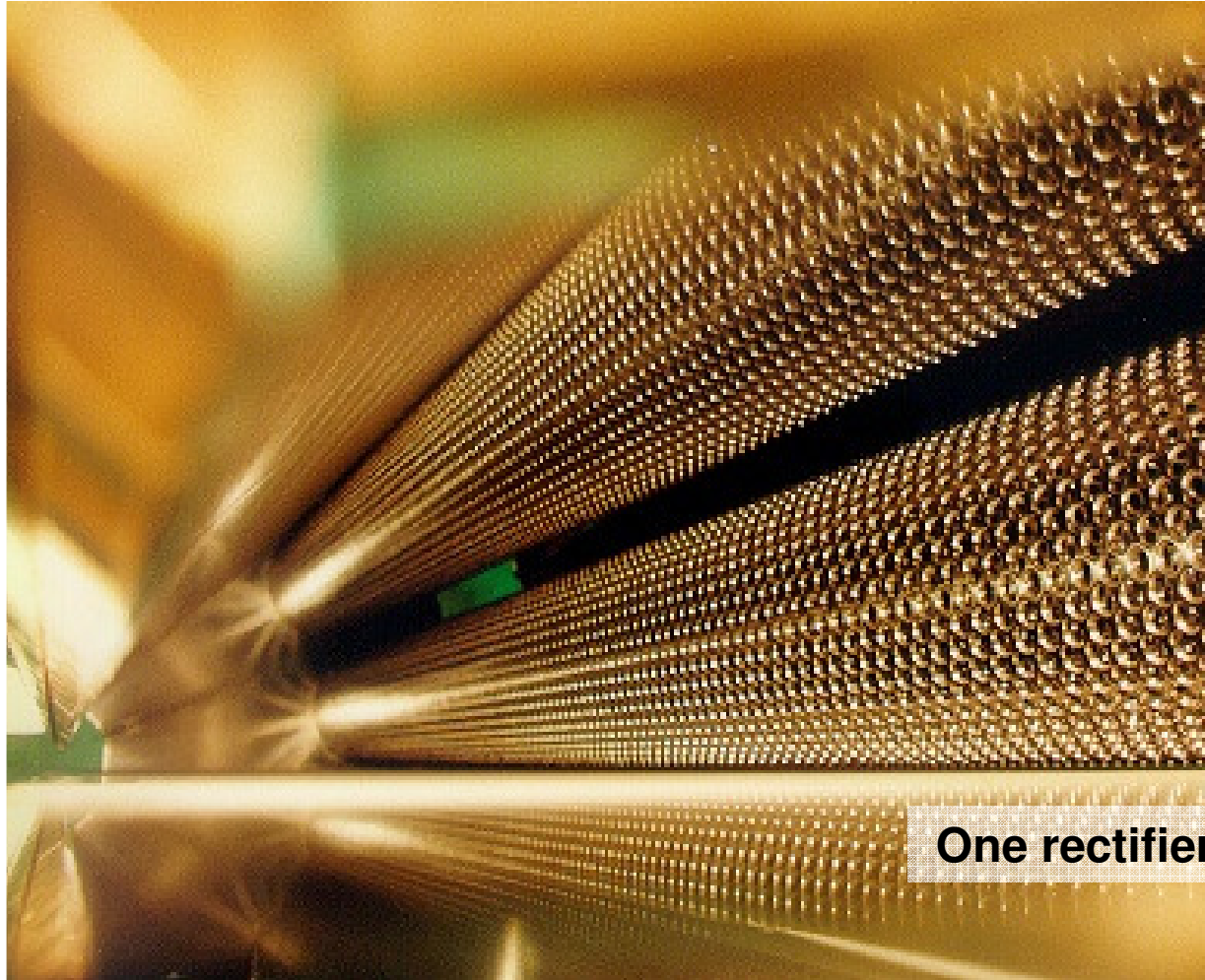
Allround production with **TURBO**STREAMER



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High tech manufacturing quality for **TURBO**STREAMER



One rectifier roll mirrored in outlet slice!

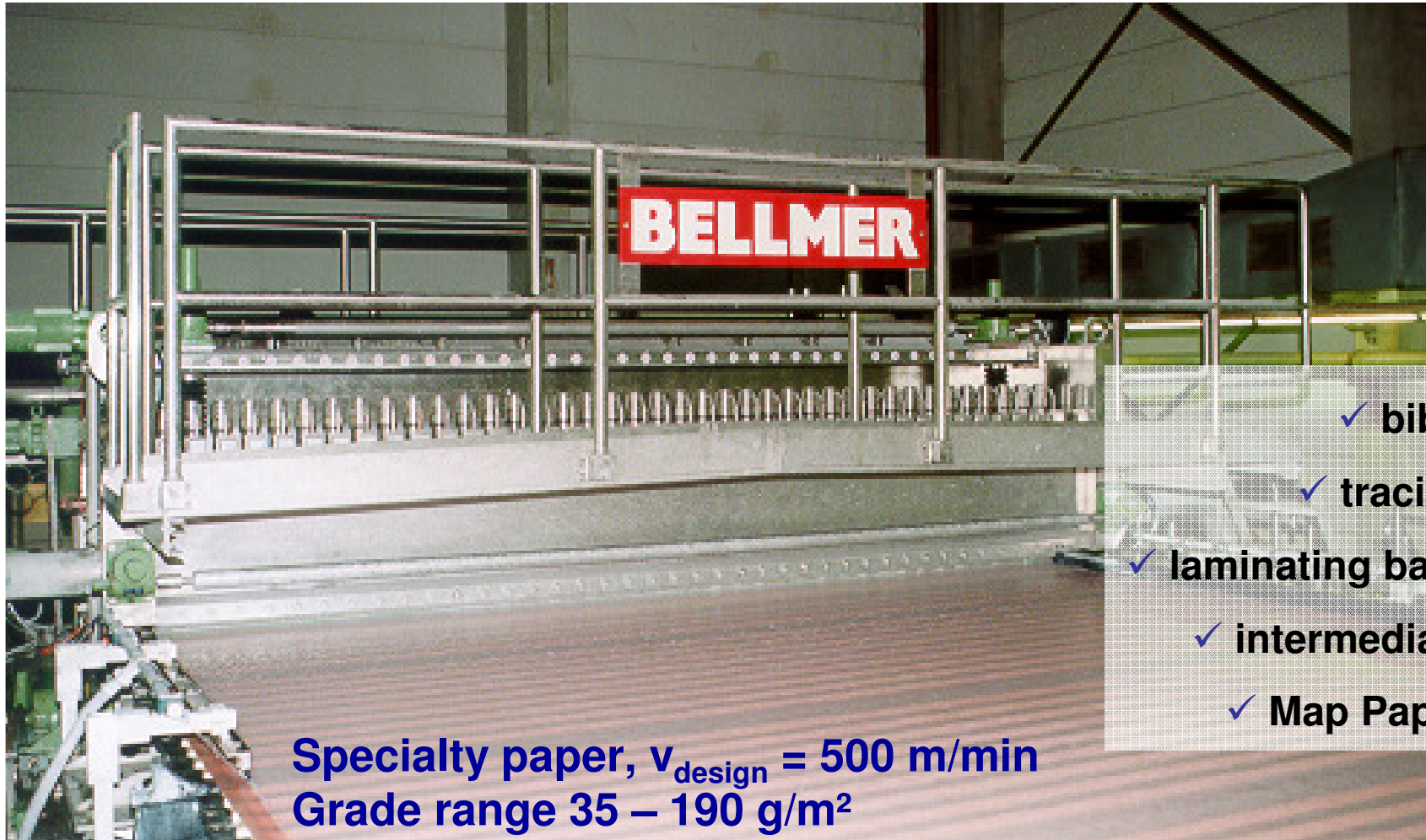


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Rectifier roll headbox **TURBO**STREAMER

For wide product range up to 1:3



- ✓ bible paper
- ✓ tracing paper
- ✓ laminating base paper
- ✓ intermediate paper
- ✓ Map Paper u.s.w.

Specialty paper, $v_{\text{design}} = 500 \text{ m/min}$
Grade range 35 – 190 g/m²

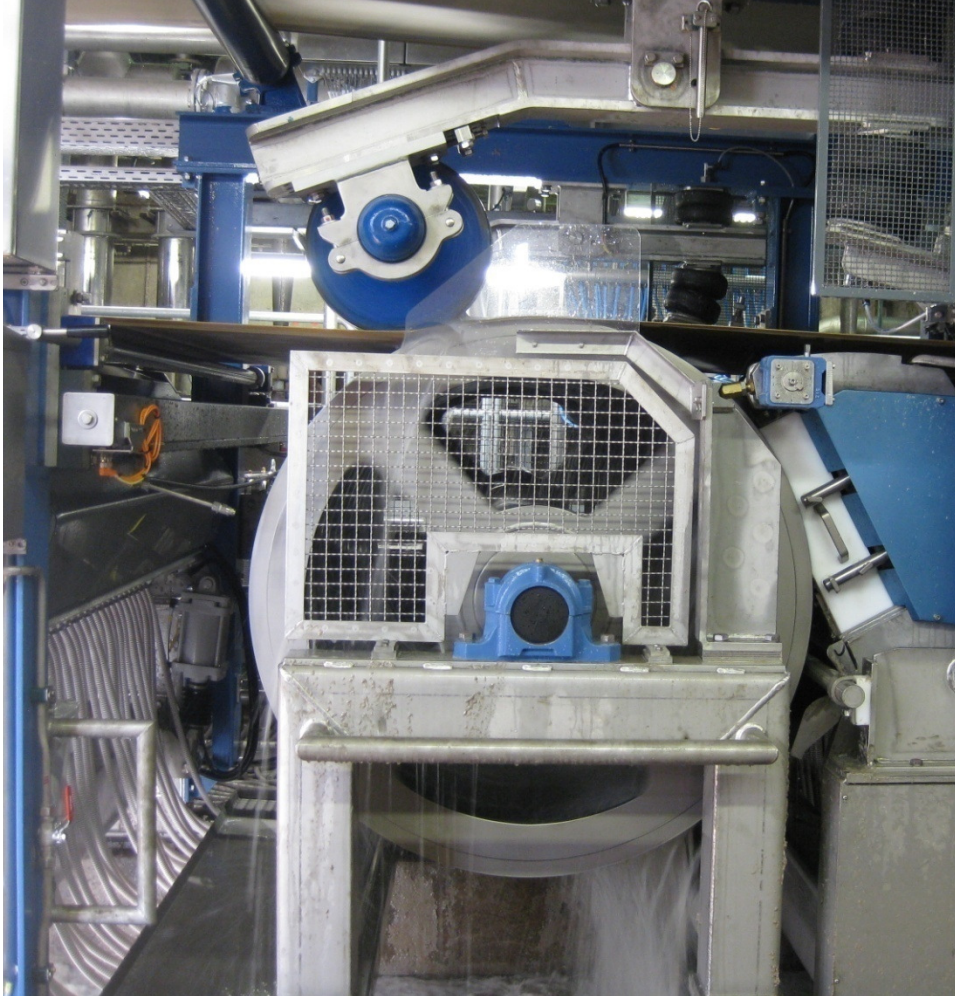


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TURBOFlowTM



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