



RECENT PAPER MACHINE REBUILDS IN SCANDINAVIA

VILLE S. NIKKANEN

SENIOR SALES MANAGER

CAPITAL SALES, PAPER AND BOARD MACHINES

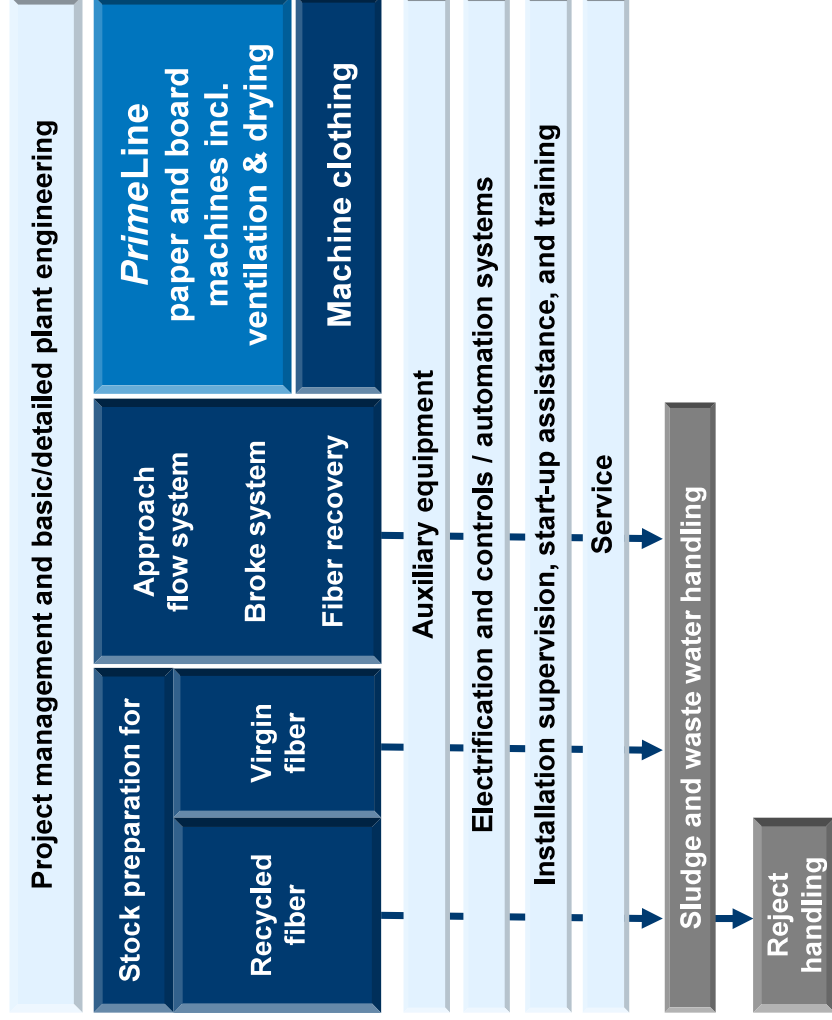
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ANDRITZ

PrimeLine PAPER AND BOARD MACHINES COMPLETE LINES & CONVERSIONS



From stock preparation to paper and board machines, clothing, pumps, and automation



PrimeLine PAPER AND BOARD MACHINES COMPLETE LINES & CONVERSIONS



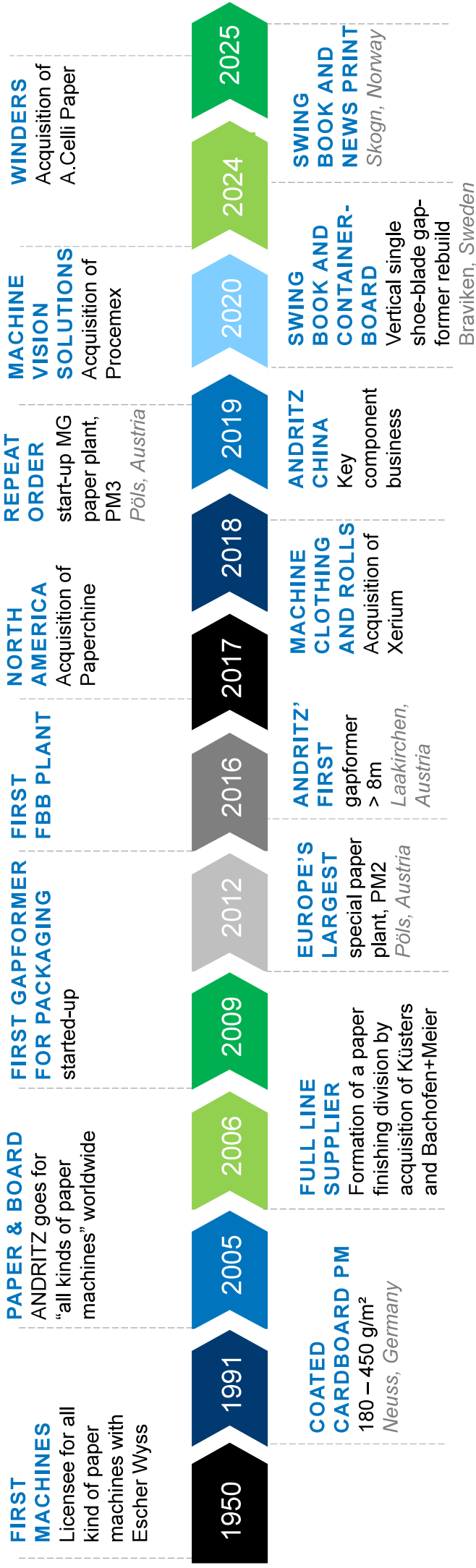
Paper and board machines

- Up to 2,000 m/min speed
- Up to 10 m working width
- Up to 26 ft. Yankee
- With resource-saving solutions such as a shoe press and steel drying cylinders
- Full-line supplier and rebuilds for board, packaging, and specialty grades



PrimeLine PAPER AND BOARD MACHINES

MILESTONES



>85

MACHINES & MAJOR REBUILDS

>75

HEADBOXES

>80

SHOE PRESSES

>625

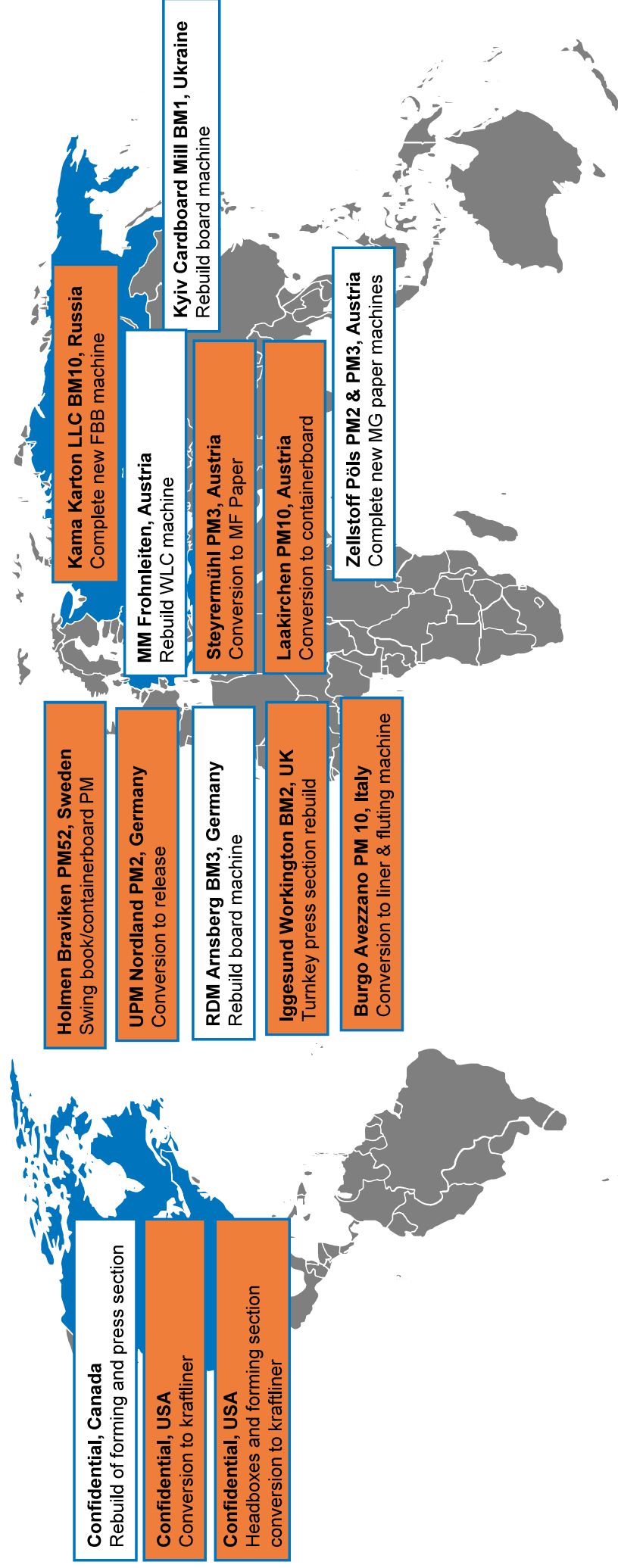
CALENDERS

>215

AIR AND ENERGY SYSTEMS

PrimeLine PAPER AND BOARD MACHINES

RELEVANT REFERENCES



CASE HOLMEN BRAVIKEN PM52: SWING PM FOR BOOK PAPER, CONTAINERBOARD, AS WELL AS NEWSPRINT

HOLMEN BRAVIKEN PM52 REBUILD



Design parameters and project scope

Key design criteria

Wire width:	9300 mm
Design speed:	1600 m/min
Max. operating speed:	1600 m/min
Grammage range:	40 - 120 g/m ²
Grades:	Newsprint, Book Paper; High strength TMP Containerboard

Project scope

- ✓ Rebuild of former to shoe blade technology incl. new headbox
- ✓ Rebuild of press section → state-of-the-art water-handling and new shoe for existing shoe press
- ✓ Related automation modifications



HOLMEN BRAVIKEN PM52 REBUILD



Unique combination on one machine

Newsprint



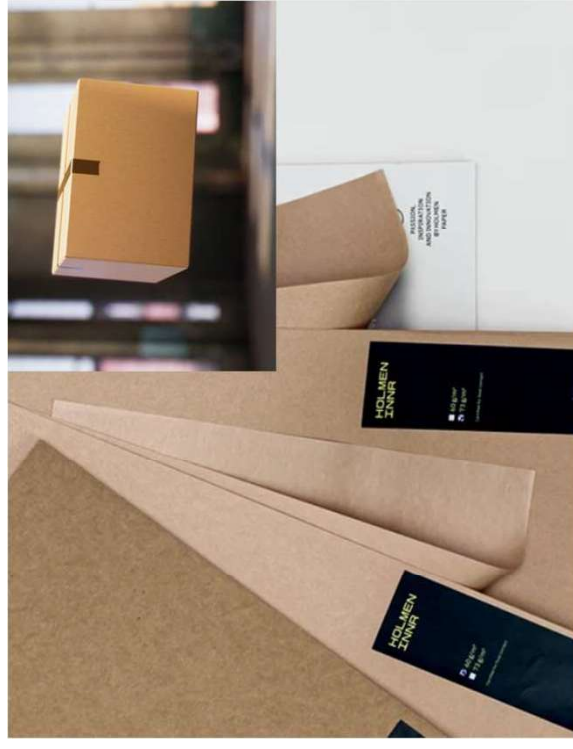
Formation, speed, high MD/CD

Book



Formation, bulk, profiles

Containerboard (TMP based)



SCT CD, basis weight, capacity, low MD/CD

PrimeForm TW SHOE-BLADE GAPFORMER FLEXIBILITY WITH RECONFIGURABLE GEOMETRY

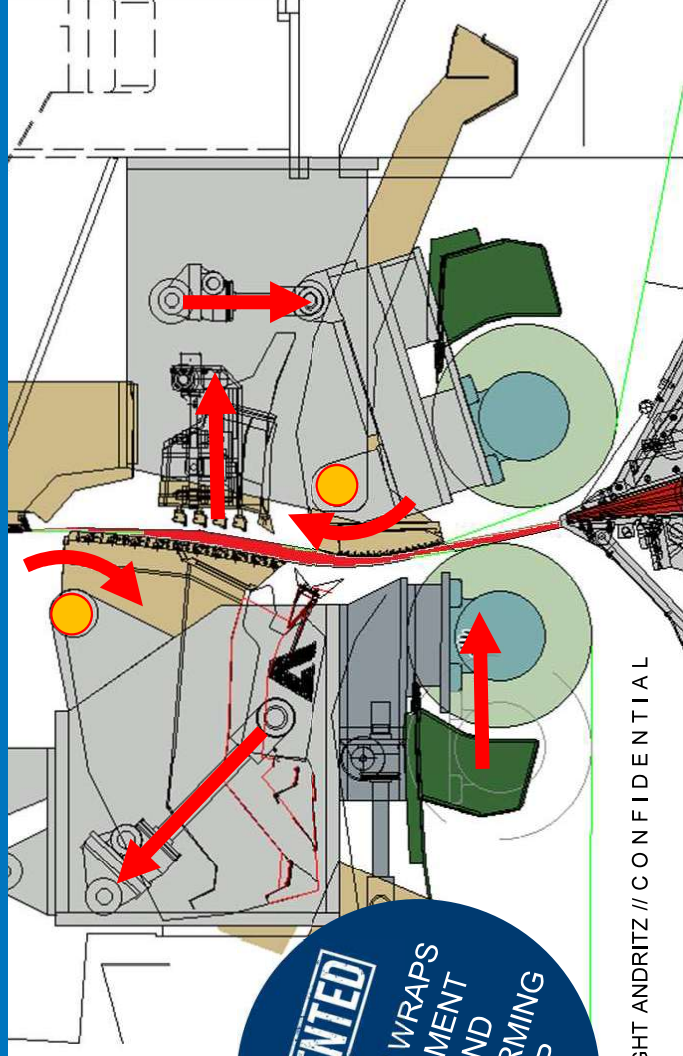
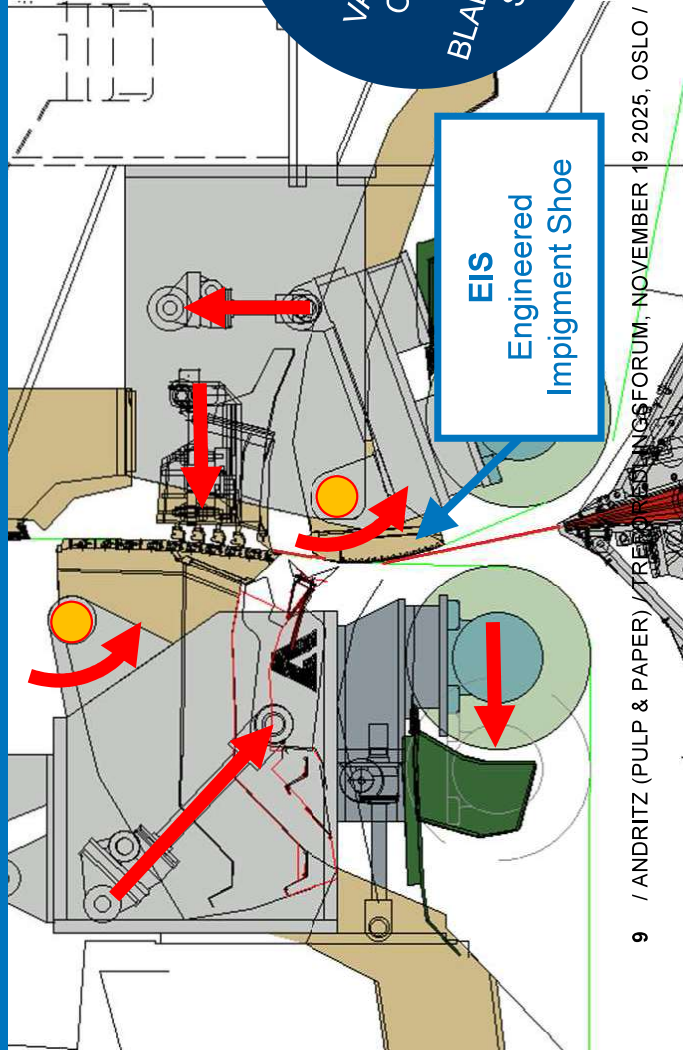


Low basis weights
High MD/CD ratios
Formation focus
Low stock thickness in forming zone

Landing high on EIS (low wrap)

Higher basis weights
Low MD/CD ratios
Strength and capacity focus
High stock thickness in forming zone

Landing low on EIS (high wrap)



**CASE NORSKE SKOG
SKOGEN PM1:**

**SWING NEWSPRINT AND
BOOK PAPER**

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NORSKE SKOG SKOGEN PM1

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Goal: to start producing also book paper

Key design criteria

Wire width:	6670 mm
Design speed:	1200 m/min
Max. operating speed:	1160 m/min
Grammage range:	42 - 60g/m ²
Grades:	Newsprint (Also book paper in the future)

Needed and executed studies

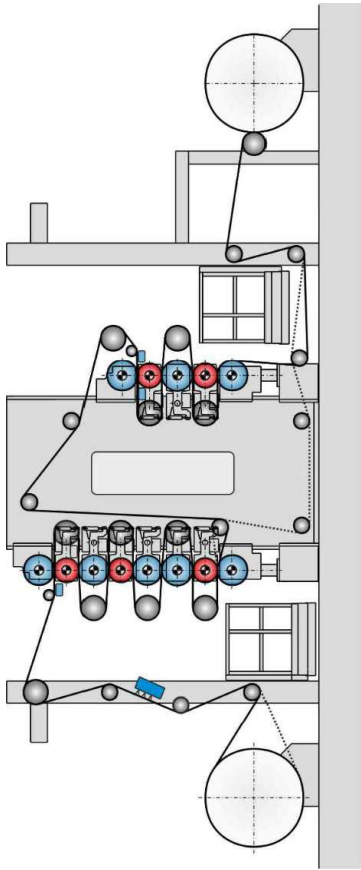
1. Calender pilot trials in ANDRITZ Krefeld in summer 2024
→ MHV roll, line load correction potential at low enough line load
2. Mill on-site pre-engineering autumn 2024 for the existing calender
→ Existing Küsters S-roll modified and reused



ANDRITZ PAPER TECHNOLOGY CENTER IN KREFELD

PrimeCal ProSoft Calender

SPECIFICATIONS	
Rolls:	8 + 5 (MultiNip)
Web width:	800 mm
Line load:	10 – 400 N/mm
Speed:	up to 1500 m/min
Roll surface temperature:	up to 180°C
Core diameter:	76 mm – 150 mm
Reel diameter:	max. 1450 mm
Steam boxes:	4



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FOR GROWTH
THAT MATTERS.**

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