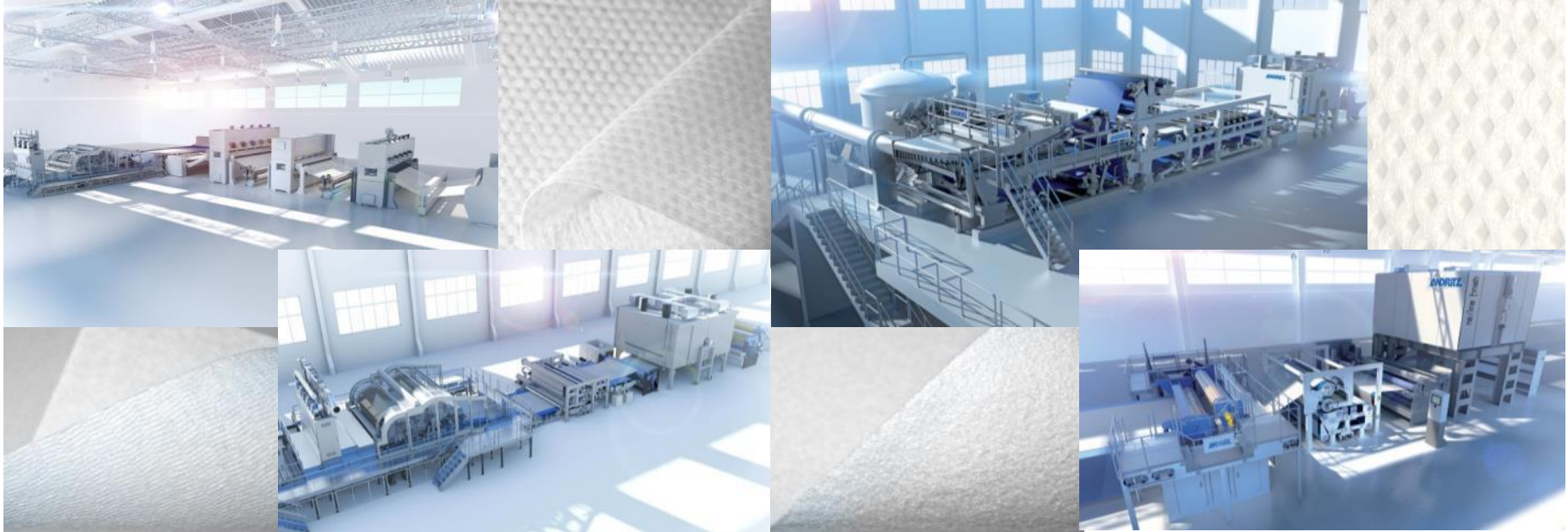




ANDRITZ Nonwoven

Your preferred partner for complete nonwovens lines



ANDRITZ Nonwoven

Content

- ANDRITZ Group
- ANDRITZ Nonwoven
- ANDRITZ Nonwoven product range
- neXline spunlace aXcess
- neXline wetlace
- neXline needlepunch aXcess

The ANDRITZ-GROUP

Overview

Company

- ANDRITZ AG, Graz, Austria (Group headquarters)
- More than 220 production and service sites worldwide
- Employees: approx. 23,800 worldwide as of March 31, 2014

Key financial figures 2013

Order intake: 5,611 MEUR*

Net income: 53 MEUR

Sales: 5,711 MEUR

Equity ratio (as of year-end 2013): approx. 17%

* MEUR = million euro

Products and services

Plants and services for hydropower stations, the pulp and paper industry, the metalworking and steel industries, and the solid/liquid separation in the municipal and industrial sectors

ANDRITZ Nonwoven

Locations



ANDRITZ (Wuxi) Nonwoven Technology

Wuxi, China

Business areas

- process and machine technology for the nonwovens industry: web forming by carding technology, crosslapping, drafting
- product portfolio aXcess

Employees

- approx. 85

Equipment and service

- sales, project management, service
- manufacturing and assembly center incl. roll repair shop
- technical center



ANDRITZ (Wuxi) Nonwoven Technology

Our history

- 1997** Set up of manufacturing for nonwovens equipment in Wuxi
Production start of crosslappers
- 2003** Production start of cards
- 2010** Production start of chute feeders
- 2011** Installed base of 110 crosslappers and 45 cards made in Wuxi
- 2012** ANDRITZ buys 100% of shares from NSC Group
- 2013** Complete lines for spunlace and needlepunch made in Wuxi
Inauguration of new facilities in Wuxi New District

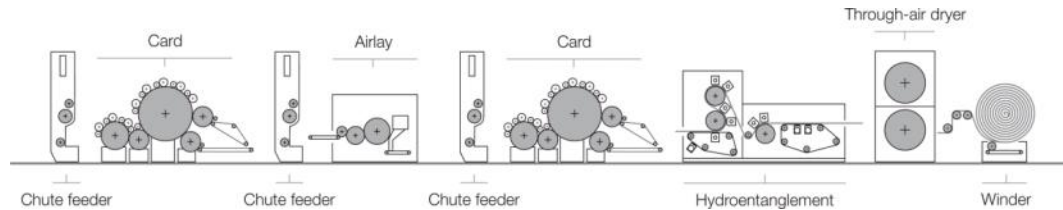


ANDRITZ Nonwoven

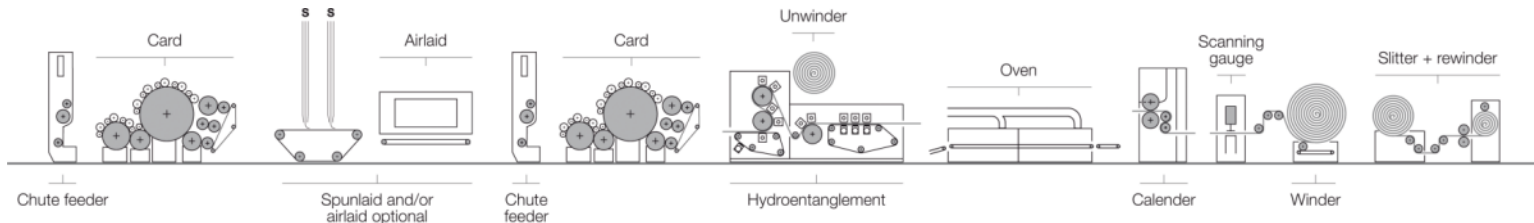
System supplier for the nonwovens industry



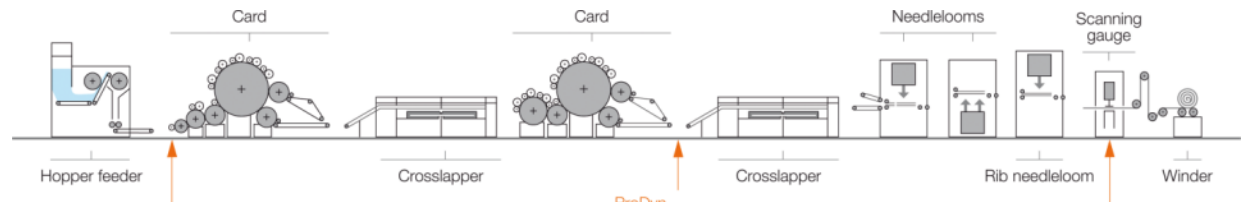
Cotton pads



Wipes / technical

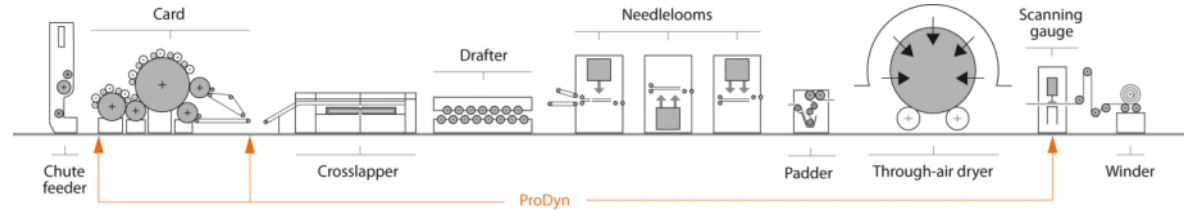


Carpet

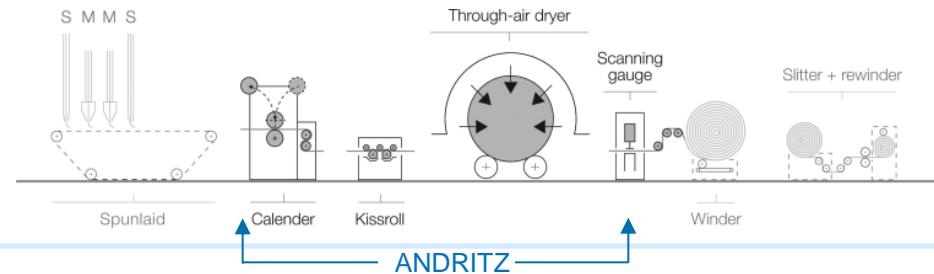


ANDRITZ Nonwoven

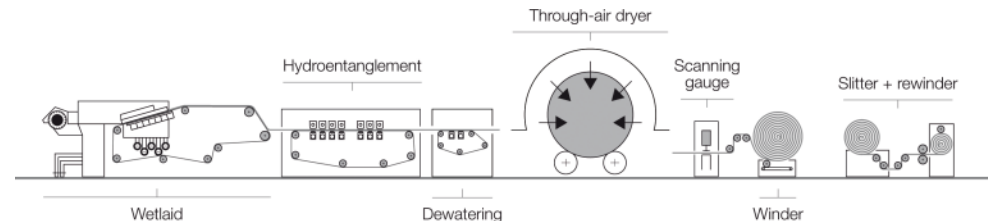
System supplier for the nonwovens industry



Roofing / filtration



Hygiene



Wipes (flushable)

ANDRITZ Nonwoven technical centers

Nonwoven process technology with full-line capabilities

ANDRITZ Asselin-Thibeau



ANDRITZ Perfojet



ANDRITZ (Wuxi) Nonwoven Technology

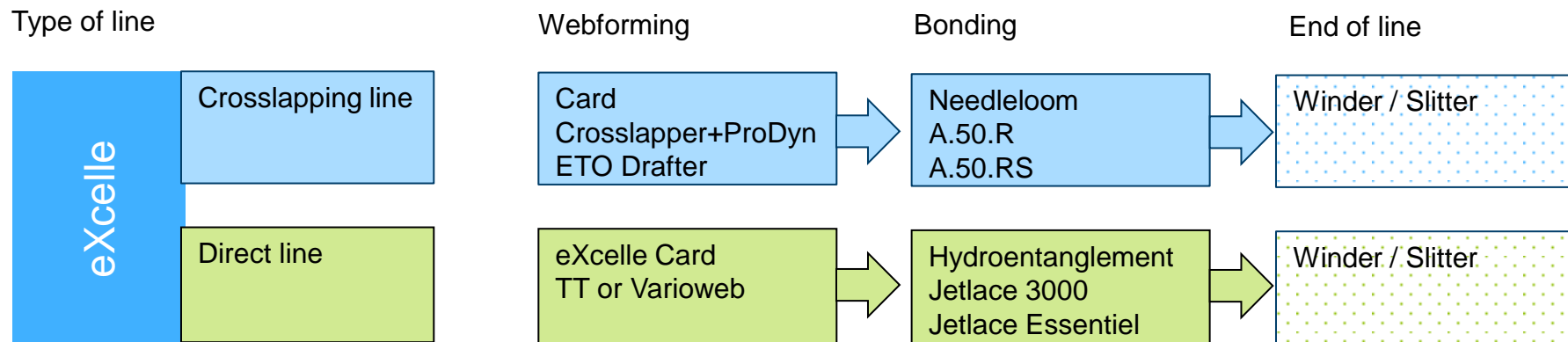


ANDRITZ Küsters

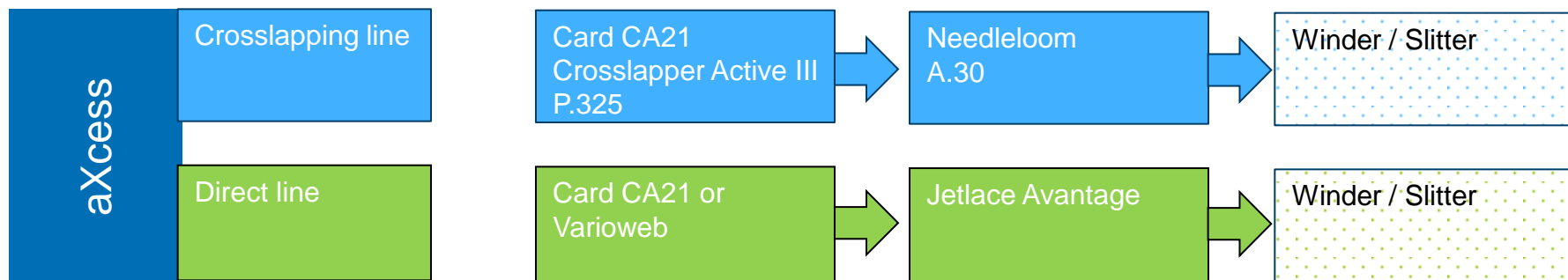


Two customised ranges from ANDRITZ Nonwoven

eXcelle and aXcess



Available from ANDRITZ (Wuxi) Nonwoven





ANDRITZ spunlace technology

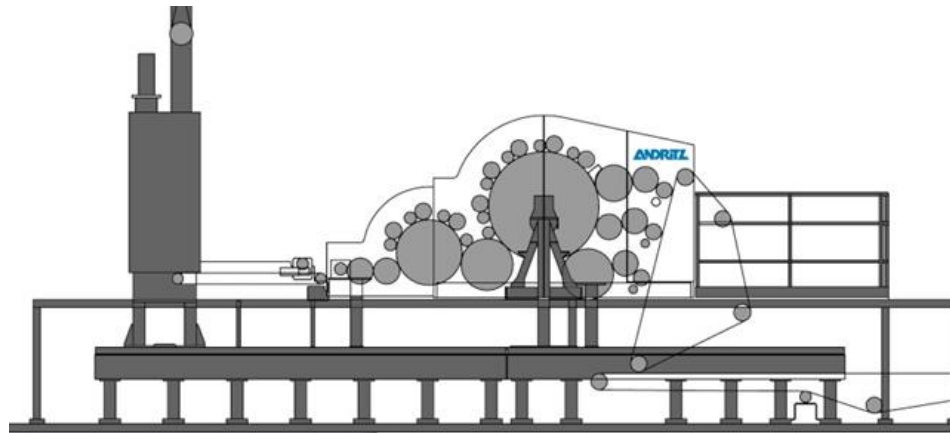
neXline spunlace aXcess



neXline spunlace aXcess

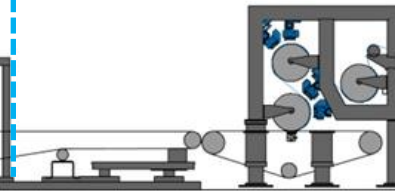
Line specification

Varioweb aXcess



- 3 doffers
- Web uniformity
- MD:CD \leq 4:1

Jetlace Advantage



- Low draft
- Energy efficient
- Aperture / pattern

Perfodry Advantage



- Gas burner / oil
- Heat recovery
- Moisture control

WW: 3.6 m

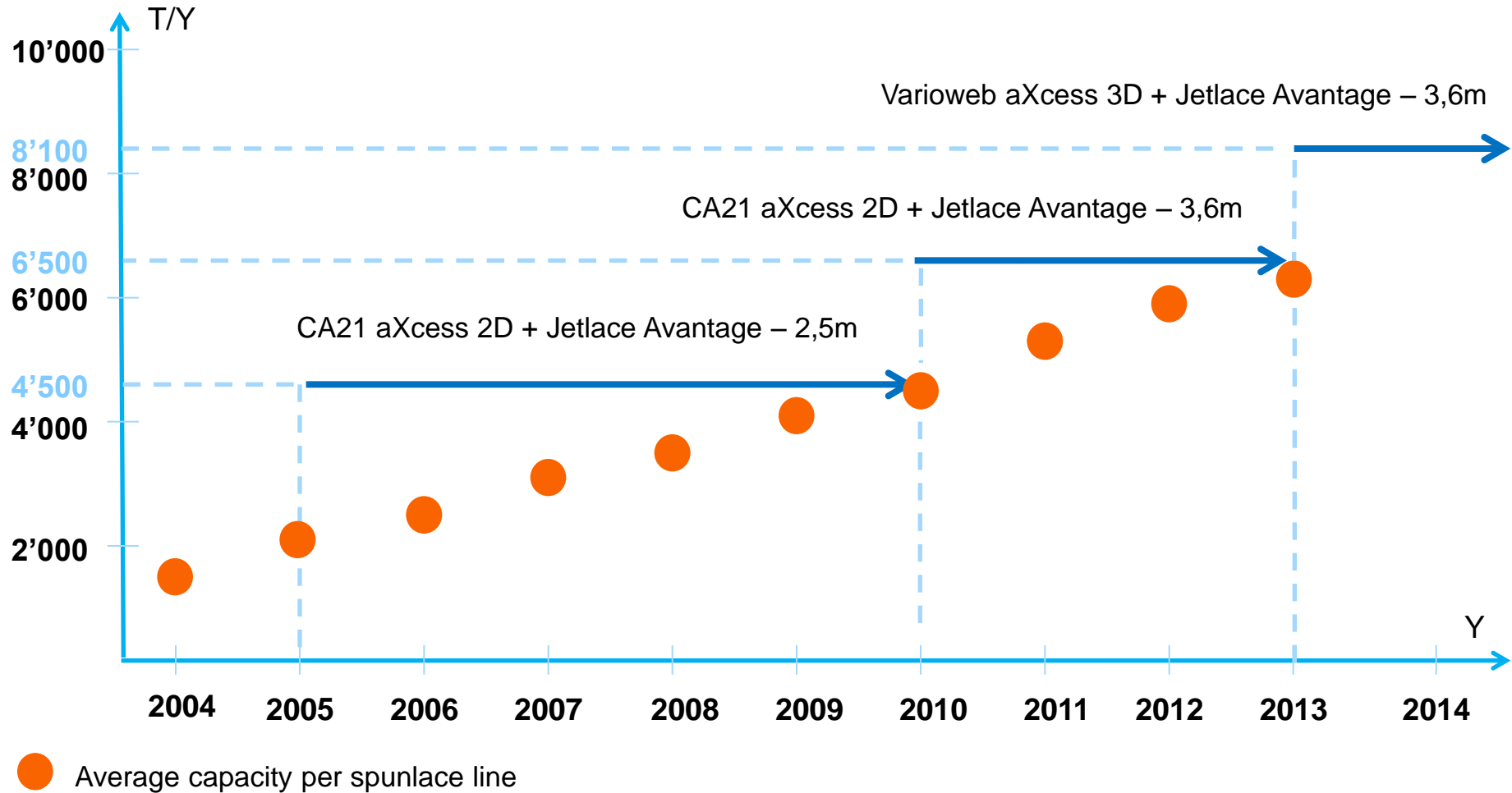
Capacity: 8,100 T/Y

Speed: 170 m/min

Product range: 30 to 80 gsm

neXline spunlace aXcess

Always ahead of market needs



neXline spunlace aXcess

Perfect web uniformity for lightweb fabric

Card 2 doffers
35 gsm – 107 m/min



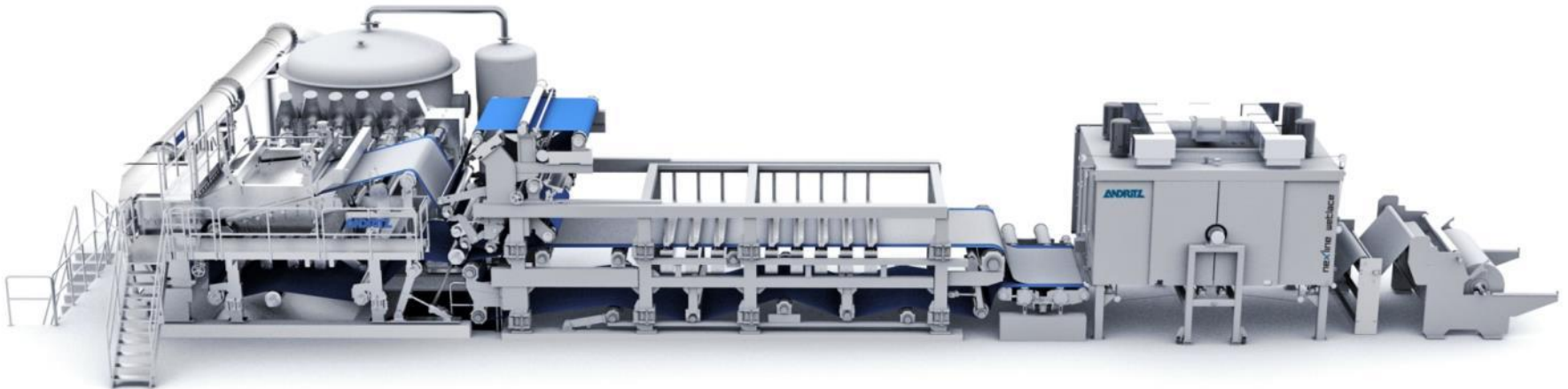
Card 3 doffers
35 gsm – 143 m/min





ANDRITZ wetlace technology

neXline wetlace

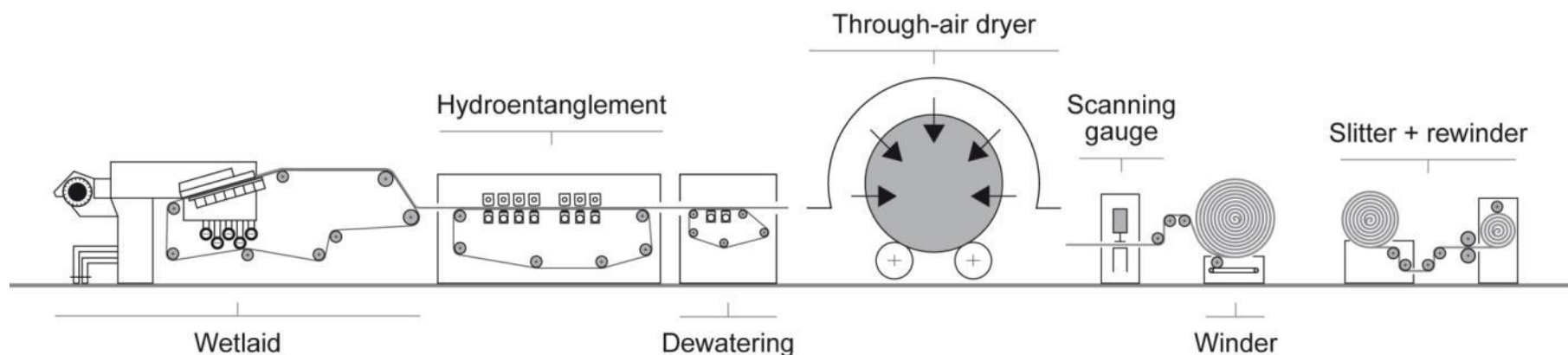


ANDRITZ in-house wetlace technology for wipes

Proven flushability

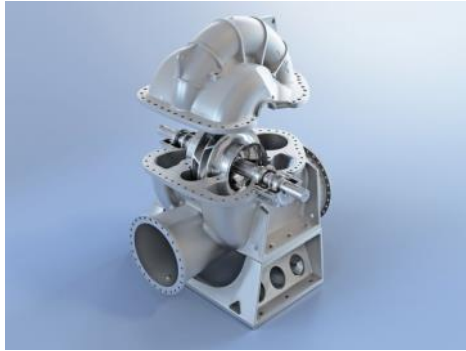
Perfectly designed for the production of fully biodegradable nonwovens without chemical or thermal bonding, such as flushable wipes.

The ANDRITZ product already passed the EDANA flushability tests in February 2011 and was also able to comply with the new guidelines in 2013.



Step ahead with ANDRITZ wetlace technology!

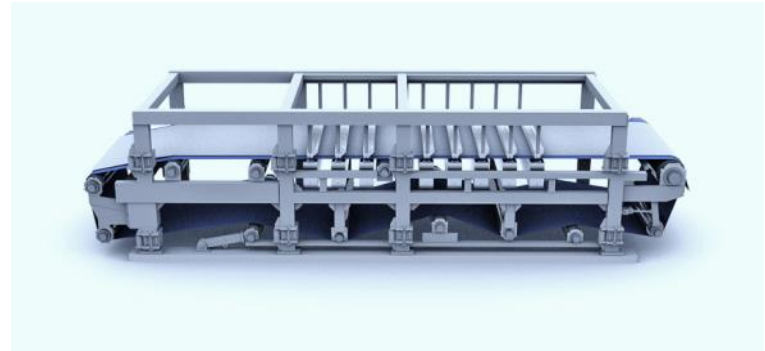
A perfect combination



Fiber supply



Wet forming

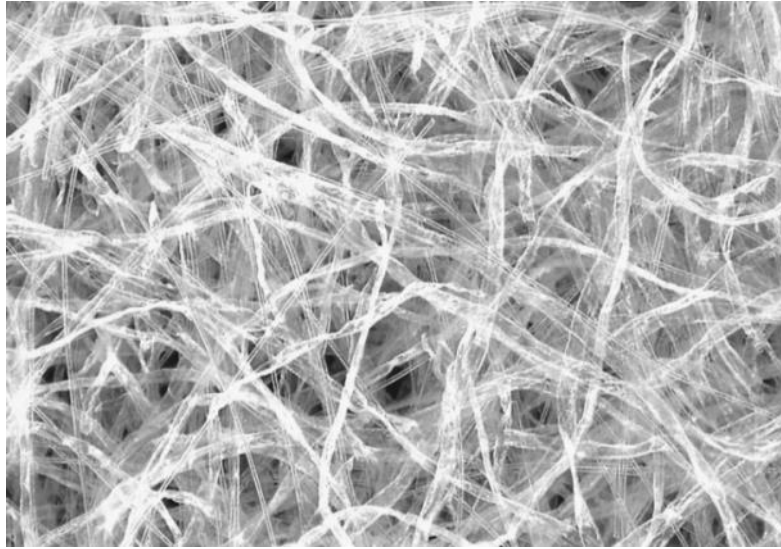


Hydroentanglement

20 years of experience in selling hydroentanglement systems for wetlaid applications ensure top performance. The core of our cutting edge technology is the ANDRITZ wet forming unit coupled with ANDRITZ Perfojet's hydroentanglement process. Hydroentanglement ideally complements the wetlaid technology, as the product is already wet (energy saving) and is reinforced without any chemicals but only by fiber entanglement.

ANDRITZ wetlace technology

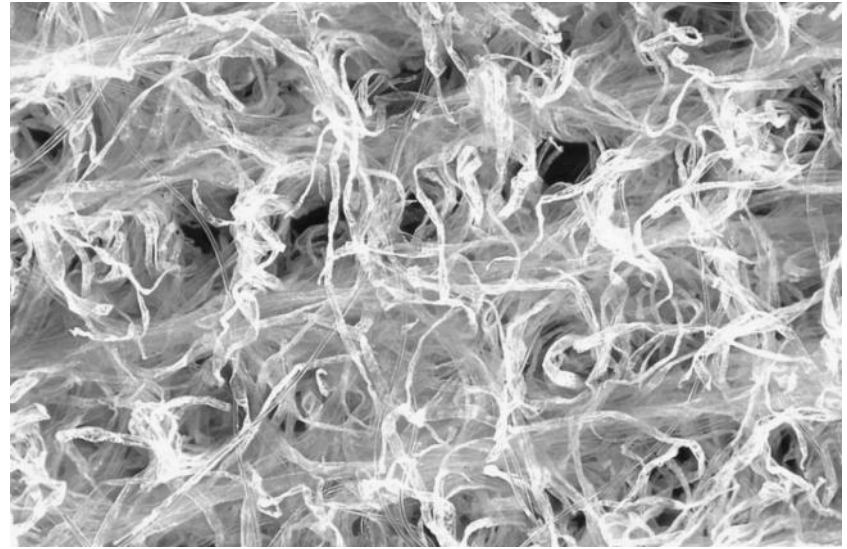
Wetlaid + hydroentanglement = Wetlace



Traditional wetlaid fabric before bonding

Product properties:

- Homogeneous distribution of long and short fibers
- Ideal porosity for subsequent hydroentanglement



Wetlace fabric after bonding by hydroentanglement

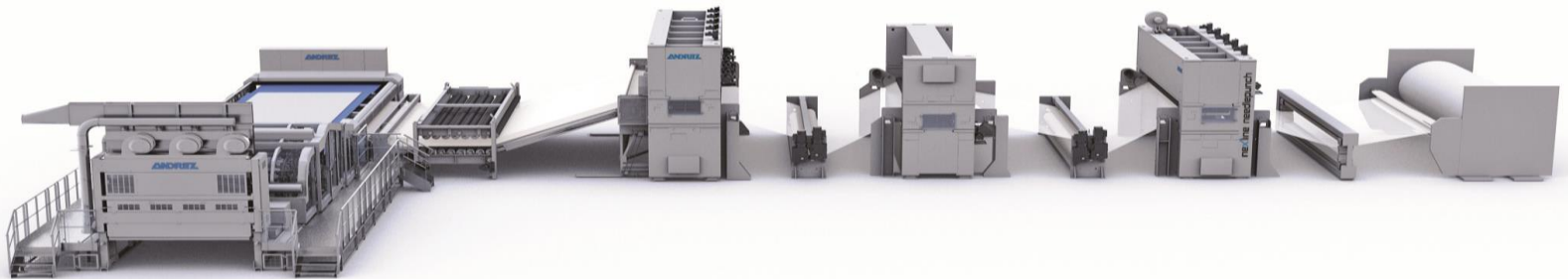
Product properties:

- Good wet tensile strength, without negative influence on flushability
- Bulk (textile feeling)
- No chemical binders



ANDRITZ needlepunch technology

neXline needlepunch aXcess

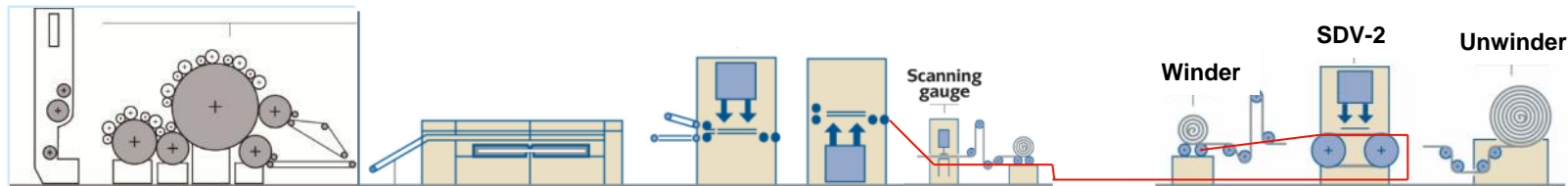


Automotive needlepunch lines

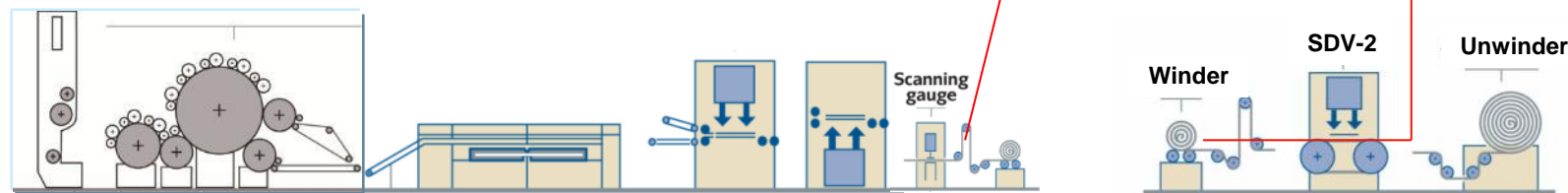
Automotive felts production layout



ALTERNATIVE « A »



ALTERNATIVE « B »



Automotive production lines

Selecting the optimum working width

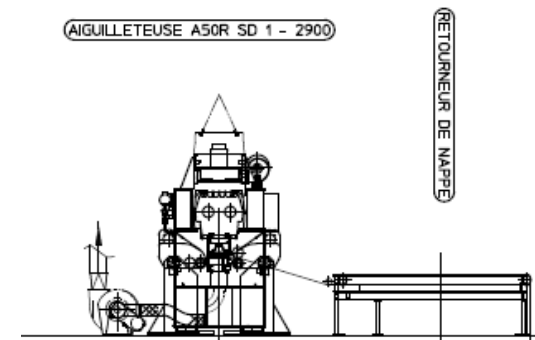
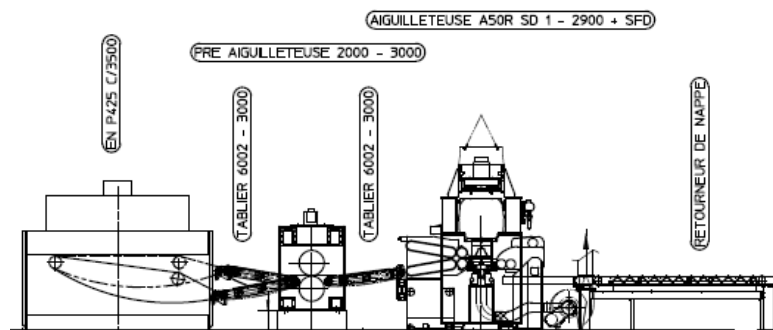
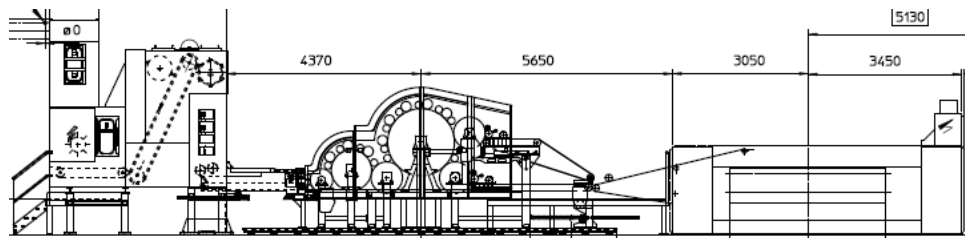
	Fabric width	Gsm	Market volume	When using 2,50 m w.w line	When using 3,50 m w.w line	When using 4,40 m w.w. line	Difference in Production Kg/h
Car floor	1,70 m 2,10 m 2,80 m	400 to 600	Very important Also important Less important	1 x 1,70 m 1 x 2,10 m Not possible	1 x 1,70 m 1 x 2,10 m 1 x 2,80 m	2 x 1,70 m 2 x 2,10 m 1 x 2,80 m	Up to 100 %
Trunk liners	1,40 m 1,20 m	550 to 700	Very important Very important	1 x 1,40 m 1 x 1,20 m	2 x 1,40 m 2 x 1,20 m	3 x 1,40 m 3 x 1,20 m	up to 200 %



Automotive needledpunch lines

for heavy sound insulation products

Needled felts from flax, fiber glass, in blends with Polypropylen, can be made with final fabric weight as much as 2 500 gsm.





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