### PULP & PAPER SERVICES

# **ANDRITZ FABRICS & ROLLS**

**COMPANY OVERVIEW** 

SEPTEMBER 17, 2019

ANDRITZ

ENGINEERED SUCCESS

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### **ANDRITZ FABRICS AND ROLLS**



Two strong brands, XERIUM and ANDRITZ Kufferath merge

### **200 YEARS EXPERIENCE**

## **500 PATENTS**

### **TECHNOLOGY DRIVEN**



### ANDRITZ FABRICS AND ROLLS - INNOVATIVE PRODUCTS AND COMPREHENSIVE SERVICES



- In October 2018, ANDRITZ acquired Xerium Technologies, Inc., headquartered in Youngsville, North Carolina, USA.
- ANDRITZ has been operating successfully in the pulp and paper industry for a very long time, offering technologies, systems, and services for pulp and paper production as well as designing and building pulp and paper mills for customers all over the world.
- The complementary acquisition of Xerium Technologies with its fabrics and roll service divisions complements ANDRITZ's product offering to the pulp and paper producing industry.
- ANDRITZ Kufferath, a supplier of forming fabrics and engineered fabrics, was acquired by ANDRITZ in 2008.
- Xerium Technologies, supplier of forming fabrics, press felts, dryer fabrics, engineered fabrics and roll covers and services, and ANDRITZ Kufferath operate together under the name ANDRITZ Fabrics and Rolls ("AFR"), covering the former Xerium product brands Huyck, Wangner, Weavexx, Stowe & Mount Hope, and JJ Plank-Spencer Johnston in addition to the Kufferath brands.

### **ANDRITZ FABRICS AND ROLLS – AT A GLANCE**



**〈\$**` 2018 Sales \$547 million (MC \$347m / Rolls \$200m) 2018 EBITA \$75 million 14% of Sales





Continuous Innovation 3 R&D Centers

~500 Patents

30 Plants in 14 Countries Lean Six Sigma culture



Powerful Data Analytics Industrial Internet of Things (IIoT) "Digital to Win"

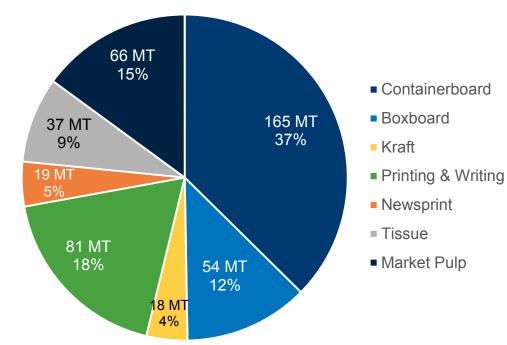


**Direct Sales** 

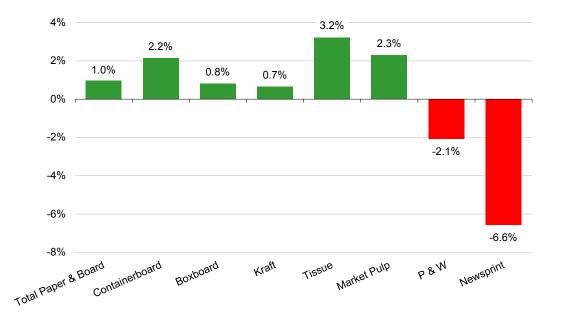
- Customers in 63 Countries
- ~70% sales outside U.S.
- 11 Primary Currencies

**MARKET SIZE AND GROWTH** 

#### Global Production by Product FY 2018 440 million tons (MT)



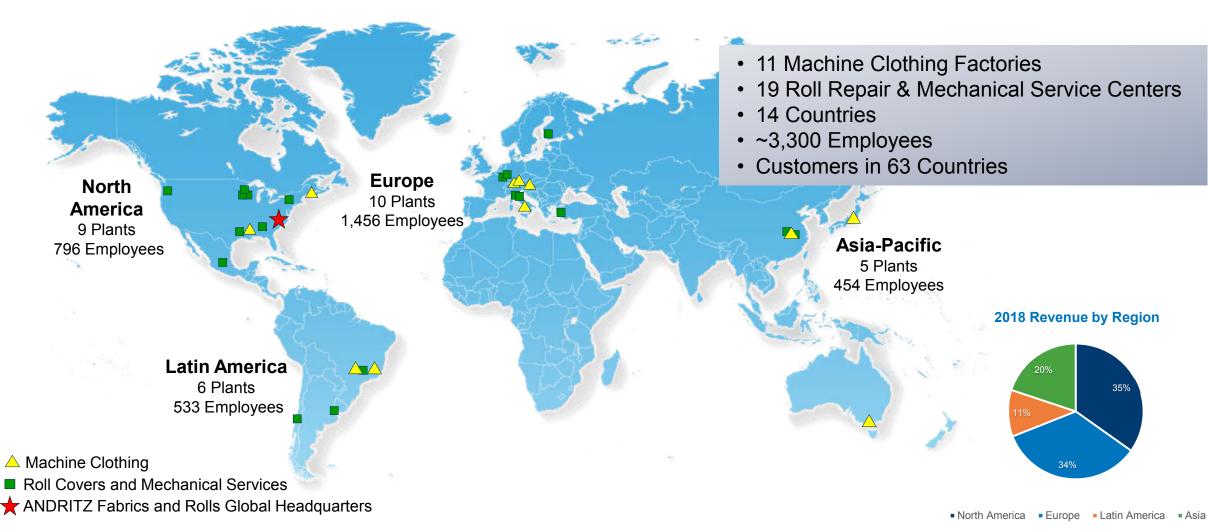
#### Growth % By Grade 2018 – 2023E CAGR



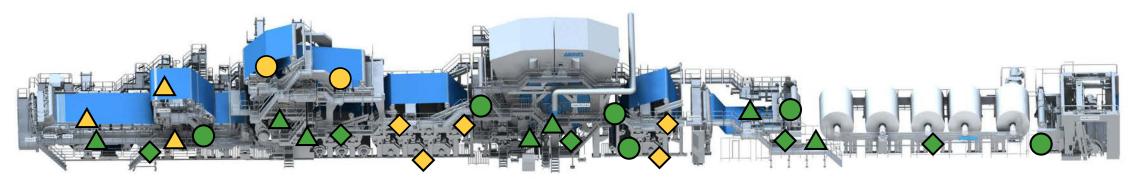
Source: PPPC/Numera Analytics



# A GLOBAL COMPANY WITH FACILITIES LOCATED IN A EACH OF THE MAJOR MARKETS



### A GLOBAL LEADER IN FABRICS, FELTS & ROLLS TECHNOLOGY FOR PULP & PAPER MACHINES

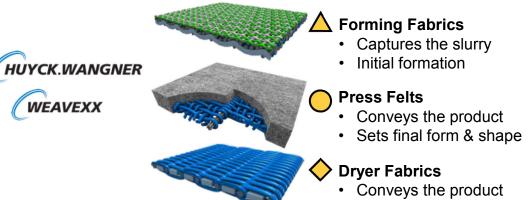


STOWE

MOUNT HOPE

ezolve

#### Fabric & Felt Products



• Dries product

#### **Roll Covers & Machine Services**



#### **Roll Covers**

- Numerous types per machine
  Becovered every 2.2 vrs
- Recovered every 2-3 yrs.

#### Spreader Rolls

- 2-15 per machine
- Rebuilt every 2-3 yrs.

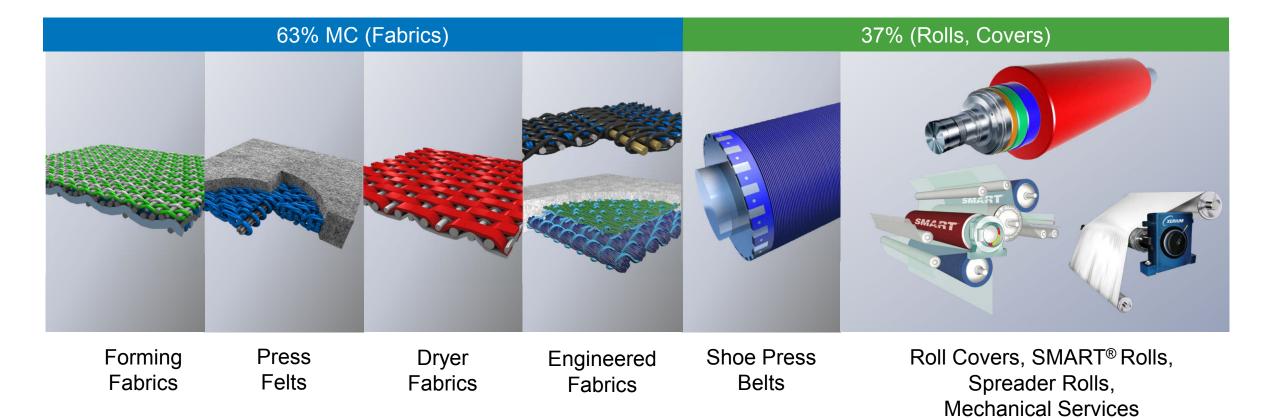
#### Mechanical Repair Services

- OEM component refurbishing other than covers
- For every roll on the machine



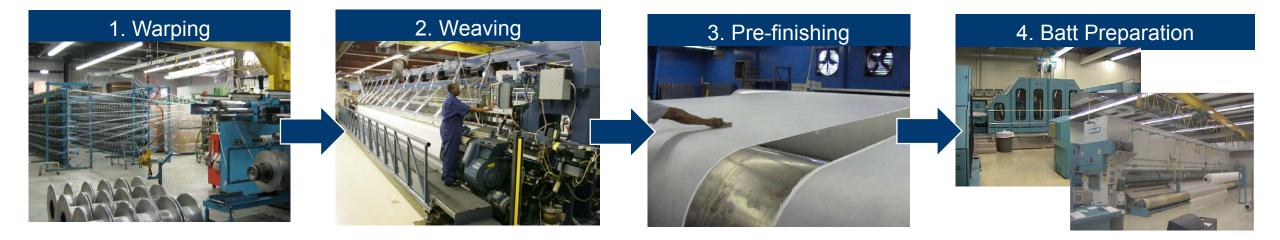
### **PRODUCT SALES BY GROUP**





### **MANUFACTURING PROCESS – PRESS FELTS**







### **MANUFACTURING PROCESS – ROLL COVERS**

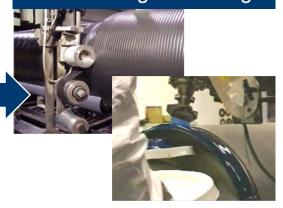


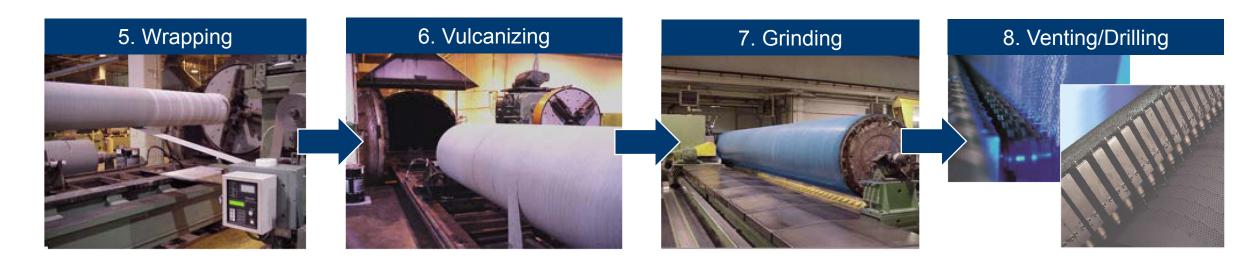






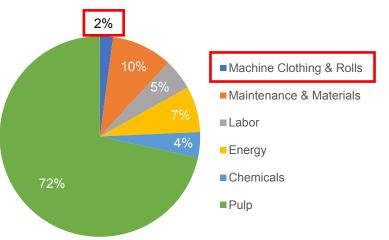
4. Extruding or Casting





### NATURE OF PRODUCT USE PROVIDES REVENUE STABILITY

- ANDRITZ products represent fraction of paper mill maintenance costs
  - Value-add products that can have significant impact on paper machine efficiency
  - High switching costs and low cost structure enable customer loyalty



#### Paper Mill Cost Structure

- Vast majority of ANDRITZ Machine Clothing revenue comes from consumable products with short lifespans
  - 94% of machine clothing orders are from repeat sales
  - 89% of roll cover and service orders are from repeat sales

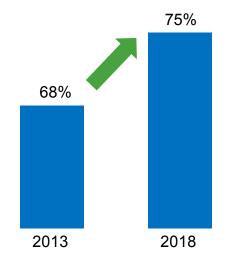
#### Illustrative machine clothing revenue potential for a board and packaging machine

Product	lifespan (months)	positions on machine	number products used per year	value per piece (x 1000 Euros)	value per year (x 1000 Euros)
Press Felt	2	4	24	33	792
Forming Fabric	4	2	6	35	210
Dryer Fabric	12	8	8	30	240
Belt	12	1	1	35	35

Source: management estimates.

### STRATEGIC GOAL IS TO ALIGN WITH STABLE, GROWING SEGMENTS OF THE MARKET

#### % of Revenue from Steady, Growing Market Segments



#### **End Product Growth**

- Consumer packaging
- Tissue
- eCommerce boxes
- Tissue converting
- Paper towels, napkins
- Shipping containers
- Folding cartons

#### **Emerging Country Growth**

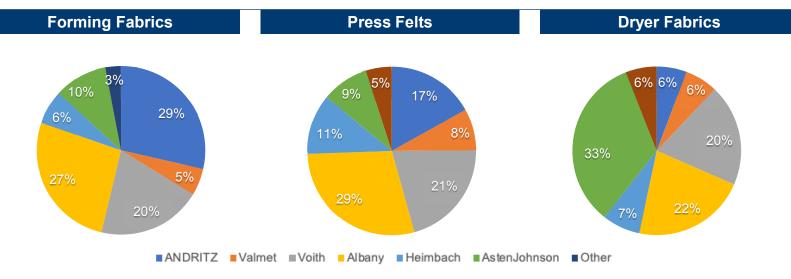
- Asia
- Latin America

### **COMPETITIVE LANDSCAPE**

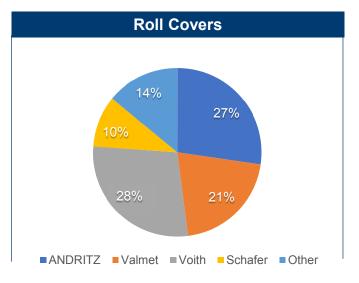
- AFR Machine Clothing (MC) plants provide forming fabric, press felts and dryer products for the global paper market.
   Albany is the market leader for MC with ANDRITZ, Voith and AstenJohnson holding significant market shares.
- ANDRITZ and Voith are the global leaders in the roll cover market. Valmet is also a strong competitor.

#### Production Facilities by Segment

Company	Machine Clothing	Rolls	
ANDRITZ	11	19	
Valmet	3	18	
Voith	8	22	
Albany	11	n/a	



#### **Market Share of Select Competitors**



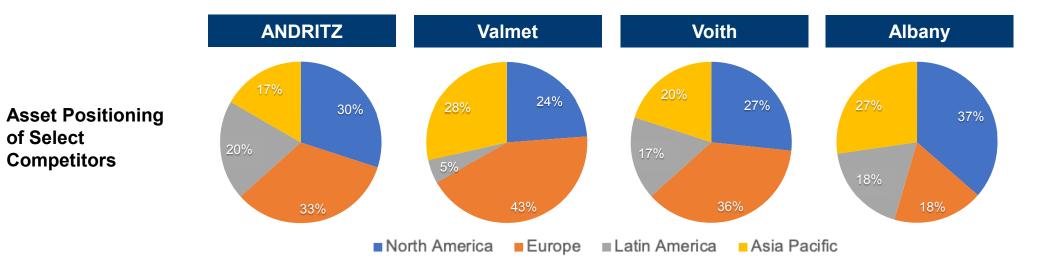
## **COMPETITIVE OVERVIEW**



- ANDRITZ, compared to its key competitors, has the most balanced portfolio of global production facilities.
- A \$17 million project to significantly increase China machine clothing production will be initiated in 2020.

#### **Production Facilities by Geographic Region**

Company	North America	Europe	Latin America	Asia Pacific	Total
ANDRITZ	9	10	6	5	30
Valmet	5	9	1	6	21
Voith	8	11	5	6	30
Albany	4	2	2	3	11





## STRATEGY

- Stable and strong operating cash flow remains core
- Leverage ANDRITZ presence and expertise to grow revenues cautiously
- Continue to invest in R&D and utilize consolidated resources to drive best in class product portfolio
- Integrate Kufferath into operating and commercial platforms
- Deliver synergistic revenues for ANDRITZ using already deployed, paper machine sales and service team of over 250 personnel globally



### **FURTHER SYNERGIES**

- AFR to utilize ANDRITZ pilot plants such as TIAC (Tissue pilot plant) to further develop and test best in class products.
- AFR to develop new equipment and service product solutions together with Paper Machine Equipment department. Same is valid for Pulp Drying Equipment.
- AFR to utilize ANDRITZ market access and joint product development in process industries like Non-Woven and Separation.
- Share market and product know-how in the different industry segments where both parties are active.
- Utilize the common global service workshops to improve local footprint for joint service business.
- Streamline redundant management structure where applicable.
- AFR to utilize the global ANDRITZ Marketing and Communication channels and tools to ensure a global brand awareness.





### **GROWTH OPPORTUNITIES**

#### **Projects in Progress**

- Expand presence and product portfolio for global Dryer Fabric market
- Expand Kunshan facility to add capacity for Press Felt production and seaming of Forming Fabrics

### **Under Evaluation**

• Expand existing Roll facilities as well as invest in new facilities in regions which are currently not covered, e.g. South China

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