

# **Analyst Briefing ITMA Barcelona**

Fira de Barcelona Hall 7, A101 Monday, June 24, 2019



## Agenda



- Introduction
- Flight with the Digital Rollercoaster
- Presentation
  - 3.1 Market picture and current business situation
  - 3.2 Overview Oerlikon Manmade Fibers Segment
  - 3.3 Outlook Oerlikon Manmade Fibers Segment
- Innovations at the ITMA
- Q&A

### **œrlikon**

# **Oerlikon Manmade Fibers Segment** at the ITMA Barcelona 2019



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# Flight with the Digital Rollercoaster Boarding: 2.15 pm Flight at: 2.20 pm



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### A leading global presence to serve our customers locally





CHF 2 609 Million sales (2018)

#### **Surface Solutions Segment** CHF 1 511 Million

World market leader with widest ranging portfolio of surface technologies, advanced materials, coating equipment and services

#### **Manmade Fibers Segment** CHF 1 098 Million

From melt to yarn, fibers and nonwovens world market leader for systems used in the manufacture of manmade fibers

4	75	location	0
	70		5

in 37 countries

160

Surface Solutions sites

50

Production and R&D sites

162

Sales and service sites

1 435

**Employees in North America** 

5 973

**Employees in Europe** 

2 945

**Employees in Asia Pacific** 

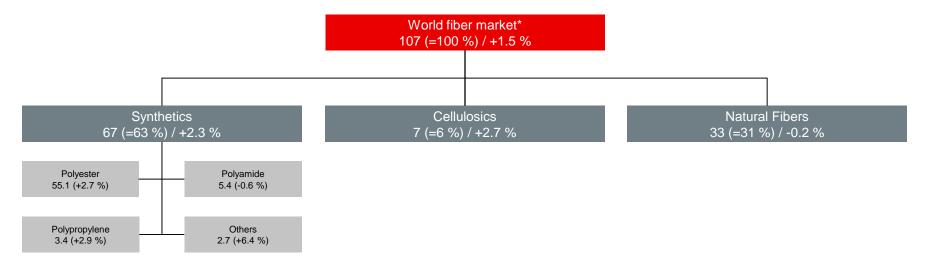
374

**Employees in other regions** 



### 2018 world fiber market – Polyester accounts for more than half of the world fiber market (in million tons)

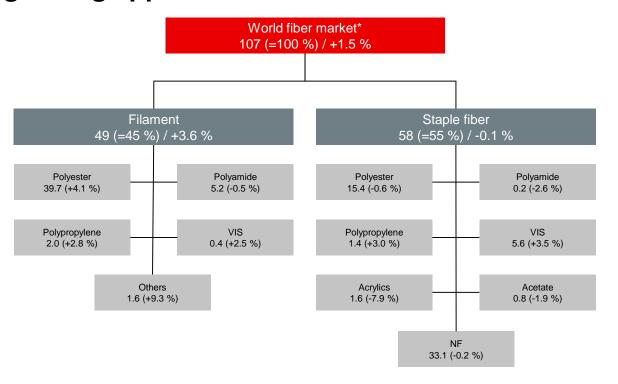




<sup>\*</sup> World fiber production; excluding nonwovens / Source: The Fiber Year 2019 Percentage compared to previous year

# 2018 world fiber market – Polyester filament market is the fastest growing application

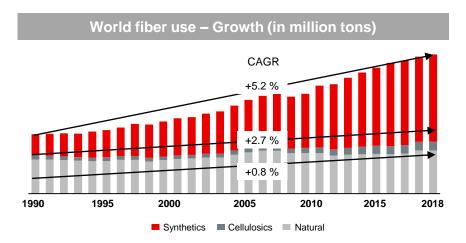


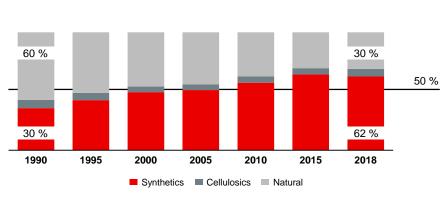


<sup>\*</sup> World fiber production; excluding nonwovens / Source: The Fiber Year 2019 Percentage compared to previous year

# Synthetics continue to replace natural fibers and are one of the growth drivers for world fiber use







World fiber use - Market share

- Steadily rising textile demand
- Increasing per capita consumption;
   107 m tons in 2018 ~14.2 kg per capita
   (vs. 8.5 kg per capita in 1990; +67 %)
- Strongest growth in synthetics industry (growth p.a. of 5 %)

- Synthetics substitute natural fibers because:
  - almost unlimited availability
  - no dependency on weather / climate
  - cost-efficient
  - broader range of applications
  - environmentally friendly (recyclable)

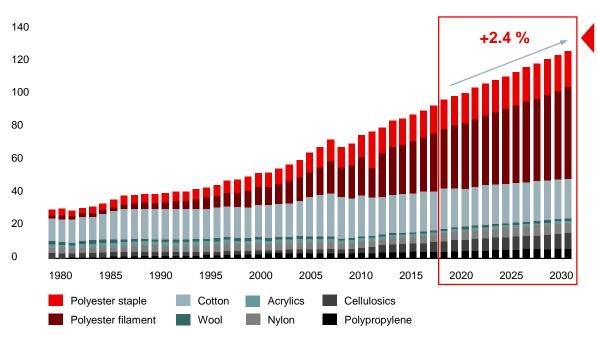
Synthetics share continued to increase (30 % in 1990 to 62 % in 2018)

<sup>\*</sup> Source: The Fiber Year 2019

### Polyester growth outperforms other fibers: + 2.4 % (CAGR)



(in million tons)



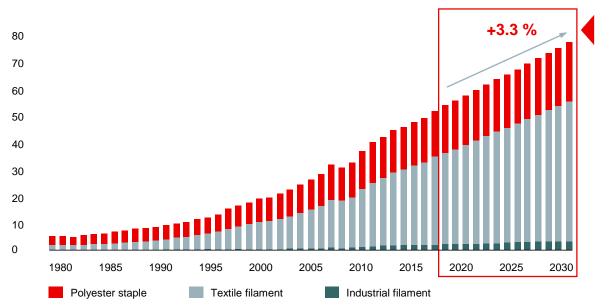
The manmade fiber industry will continue to benefit above average from the market growth and the shift of market shares from cotton to manmade fibers in the coming years.



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# Textile Filament (PET) is experiencing largest growth (in million tons)





Growth 2016–2030 (CAGR)					
All polyester	+ 3.3 %				
Staple	+ 2.1 %				
Filament	+ 3.8 %				
<ul><li>Industrial</li></ul>	approx. +100 ktpa				
<ul><li>Textile</li></ul>	approx. +1 500 ktpa				



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### From Melt to Yarn, Fibers and Nonwovens

### œrlikon



#### Oerlikon serves the need for better Functional Fibers

#### œrlikon



More than 35 million tons of manmade fibers are produced on Oerlikon solutions per year. The world's largest textile manufactures trust in Oerlikon filament spinning, texturing, staple fiber and nonwoven Industry 4.0 plant solutions.



### **Oerlikon Solutions guarantee Quality** of Consumer Products



Raw materials

PTA





Oerlikon's consumer product within the textile

Textile processing

Knitting



Printing

Laminating





Product make-up





Retail & distribution

Merchant and whole-sale





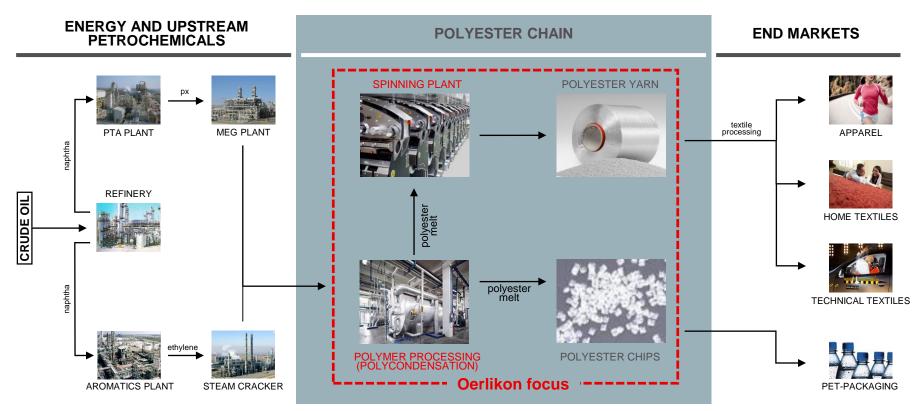






### Oerlikon in the middle of the polyester value chain



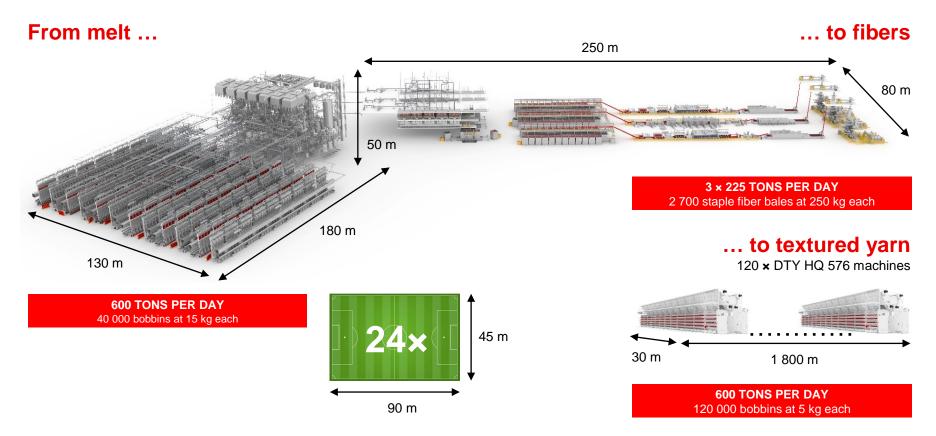


 ${\sf PX = paraxylene; \ PTA = purified \ terephthalic \ acid; \ MEG = monoethylene \ glycol; \ PET = polyethylene \ terephthalate.}$ 

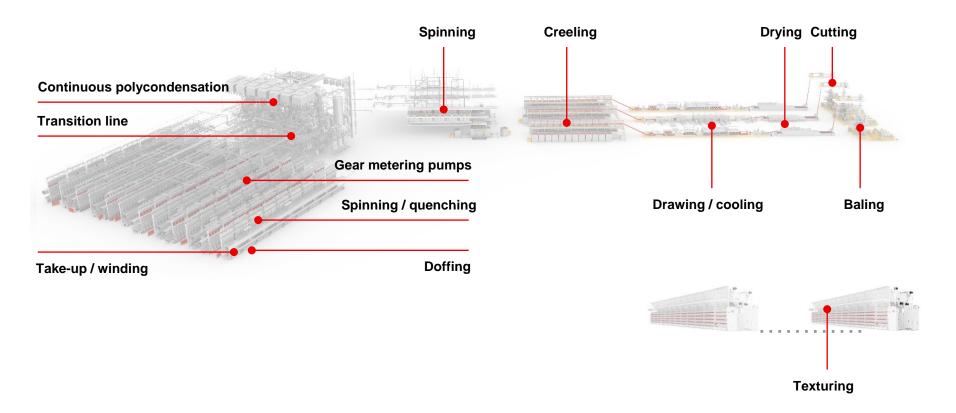


### **Engineered Plant Solutions as a one-stop service**

### **œrlikon**

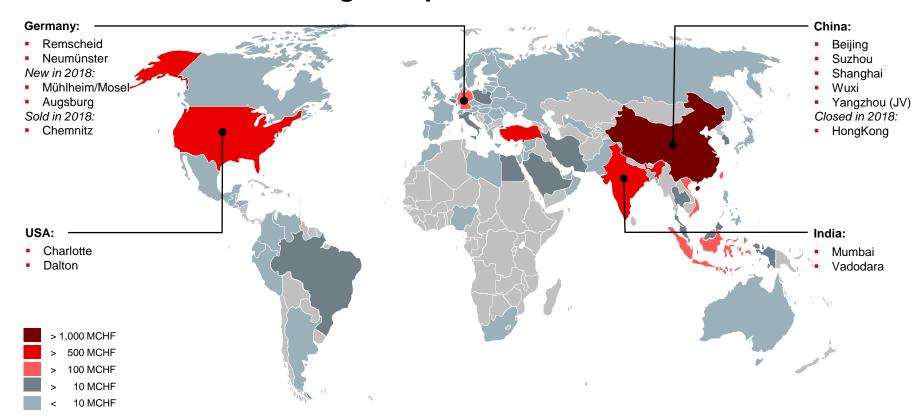


## Quality influencing technologies – all controlled by Oerlikon cerlikon



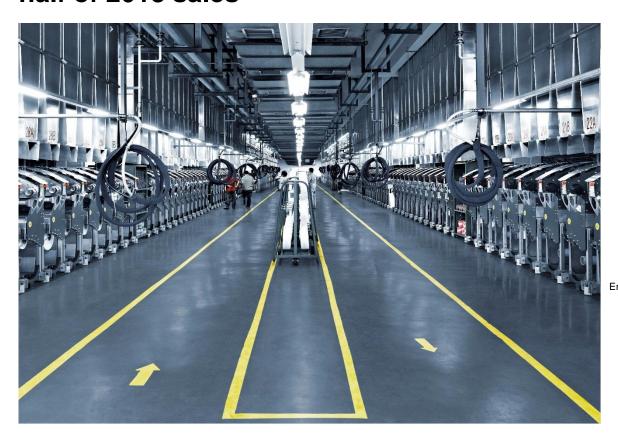
# Sales Force serving 80 countries worldwide – Close to customers with global production sites

#### **œrlikon**

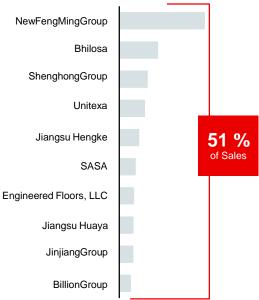


## Strong customer base – top 10 customers make over half of 2018 sales





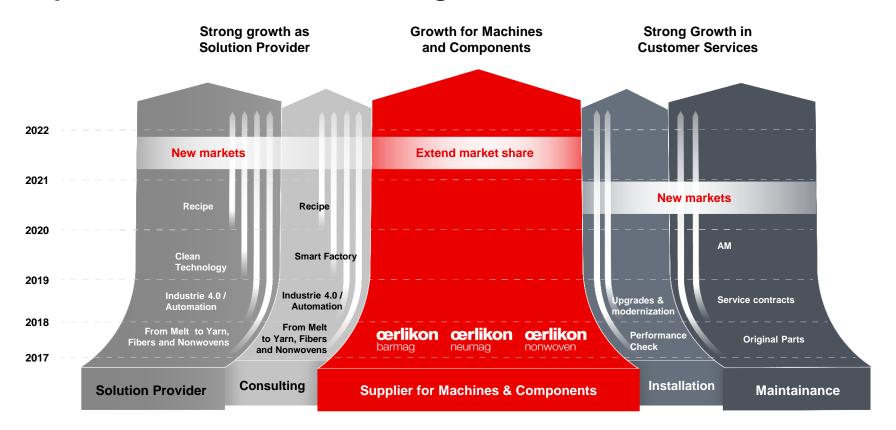
#### Top 10 customer sales split (FY 2018)





# Extend our core business, develop solutions and improve customers services for growth









# Reflecting the positioning of the Segment in the new business split



#### Old business split

Filament spinning / Texturing

BCF1 / CP2

Staple Fibers / Nonwovens



#### New business split

Textile Applications

Filament spinning / Texturing

Special Filament

BCF<sup>1</sup> / IDY<sup>2</sup>

Plant Engineering

CP<sup>3</sup> / Staple Fibers / Nonwovens



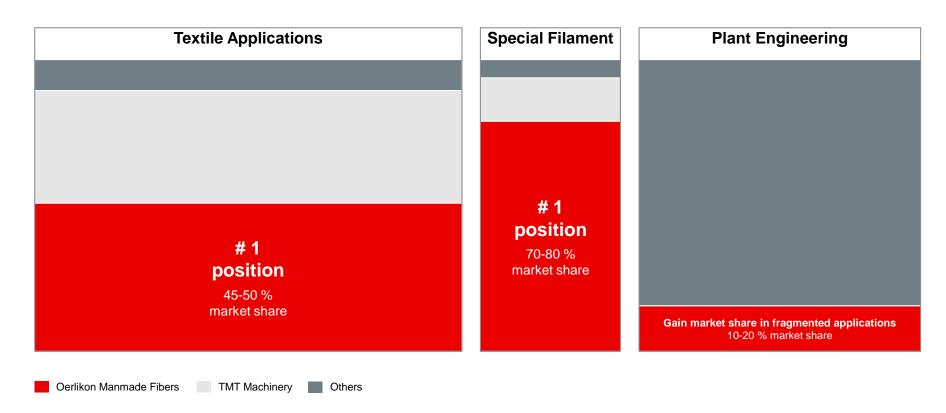
Order Intake	Q1 2018	Q2 2018	Q3 2018	Q4 2018	FY 2018	Q1 2019
Textile Applications	254	187	129	183	753	222
Special Filament	87	81	76	24	268	32
Plant Engineering	32	13	55	34	134	42
Total	373	282	260	241	1'157	296

Sales	Q1 2018	Q2 2018	Q3 2018	Q4 2018	FY 2018	Q1 2019
Textile Applications	178	177	202	148	705	164
Special Filament	35	67	68	78	248	42
Plant Engineering	30	27	44	45	146	48
Total	243	271	314	270	1'098	254

<sup>&</sup>lt;sup>1</sup> Bulked continuous filament (carpet yarn); <sup>2</sup> Industrial Yarn; <sup>3</sup> Continuous Polymerization Differences due to rounding

# Competitive landscape Market share by application





## Extend our core business, develop solutions and improve customers services for growth

### **œrlikon**



**Industrie 4.0 / Digitization** 



Products and Engineering (incl. Recycling)



**Customer Services** 



**Automation** 



Corporate Social Responsibility (e-save)



Yarn / Material

## Agenda



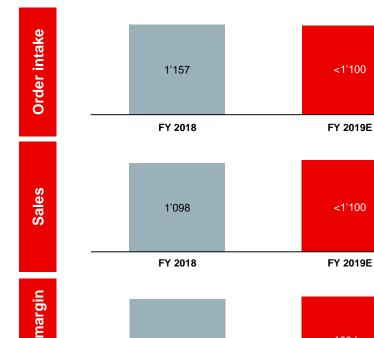
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## 2019 outlook confirmed – Strong project pipeline and improving profitability level

~100 bps

FY 2019E





#### Full Year 2019 guidance

- Order intake up to CHF 1.1 bn due to ongoing strong project pipeline
- Sales expected around prior year's level due to cap of capacity
- EBITDA margin to improve by around 100 bps

#### Q1 2019 results confirming path to guidance

- Strong order intake of CHF 296 m sustained across all product lines (2<sup>nd</sup> highest since Q4 2011)
- Sales growth of ~5 % (CHF 254 m) led by business wins in Asia
- Strong EBITDA margin of 13.2 % due to project mix

#### Long term expectations

- Continued high level of order intake
- Capacity cap resulting in delivery lead times reaching into 2022
- EBITDA margin to improve towards mid-teens levels

BITDA

ш

FY 2018

11.7 %

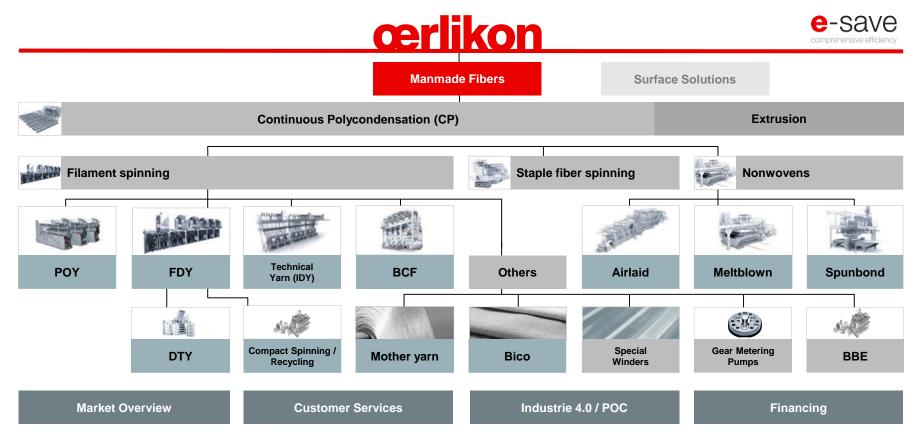
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### From Melt to Yarn, Fibers and Nonwovens





# VacuFil® Recycling Line

#### **œrlikon**

## BBE COMPONENTS BBE COMPETENCE

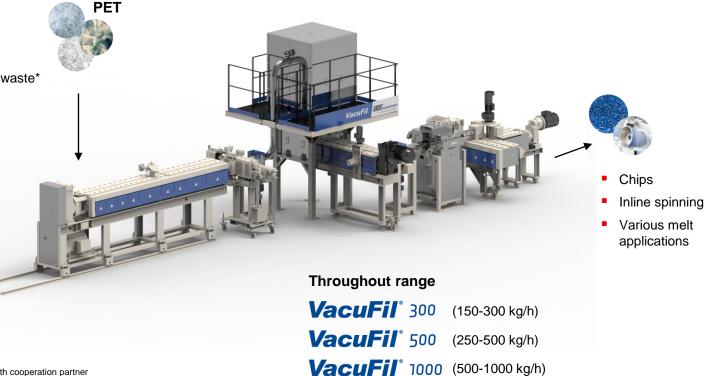
Bottle flakes

Post-production fibre waste\*

Start-up lumps\*

Film\*

Chips, pellets



\*pre-processing of inhouse waste with cooperation partner



### VacuFil® Recycling Line

#### œrlikon

## **VacuFil**® Recycling Line **BBE Valueneering**



#### **Unique features**

- Multi-step melt filtration
- large filter surface
- Minimum pressure difference
- Maximum filtration
- Excellent melt degassing due
- to large degassing area and permanent surface renewal
- Online IV measuring unit
- Easy integration into existing plants
- Modular and flexible
- Additional features available

#### **BBE Valueneering**

- Engineering and process know-how
- From individual consulting all the way through to start-up
- Custom-made design
- Worldwide customer service







## eAFK Evo – Texturing at its coolest Production cost decides on your success in DTY





#### What's new?

- Very compact design
- Low height of < 4.5 m</li>
- 4-deck take-up
- Ready for automation

#### Your benefit!

- Less building height required
- Less air conditioning
- All components are easily reachable
- Easy maintenance
- Easy string up

#### œrlikon

## **eAFK Evo – Texturing at its coolest** Production cost decides on your success in DTY

#### Quality

- Consistent yarn quality for best downstream
- Best unwinding properties
- Best dyeing and consistency

#### Cost-efficient manufacturing

- Up to 20 % increased production speed
- Energy savings of up to 25 % per kg/yarn

#### Efficiency / productivity

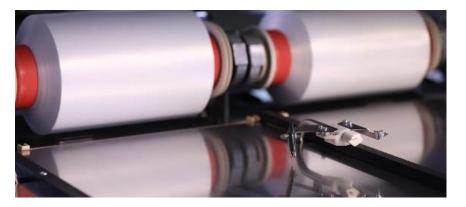
- Fastest string-up
- Highest doff efficiency
- Easy and efficient maintenance

#### Reliability

- Long machine life-cycle
- High machine availability
- Single driven godets

#### Service

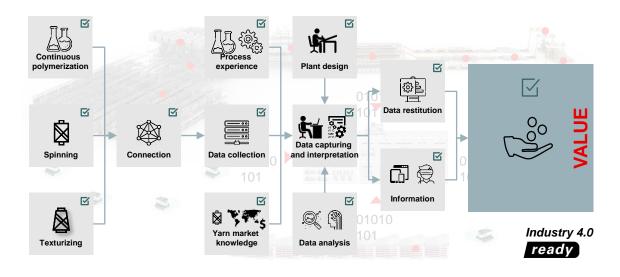
- Lifecycle management
- Technical services
- Advanced services





# **Smart Innovation Oerlikon Smart Plant Technology**



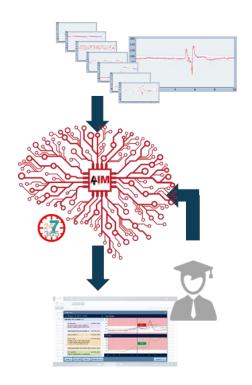


#### eAFK Evo: ready for Smart Plant technology

- Rewriting the future of digitalized production
- Ready for automated operations in yarn supply and doffing
- Ready for improving quality with online monitoring as part of the Oerlikon Smart Melt to Yarn Plant concept
- Ready for optimum production control with the Oerlikon Plant Operation Center (POC)
- AIM<sup>4</sup>DTY ready: Al based fault detection and root cause analysis

## Oerlikon Smart Plant Technology eAFK Evo is ready for AIM<sup>4</sup>DTY





#### **♣** What's new?

- Automatic analysis of UNITENS®¹ faultgraphs
- Faults are detected and categorized automatically
- Learning software with AI (Artificial Intelligence)

#### Your benefit!

- Speed up the quality deviation analysis
- Ensure availability of expert know how
- Improve reaction time to quality deviation
- Reduced labor costs
- Optimize quality / increase margin

 $<sup>^1\,\</sup>text{UNITENS} \text{ is an internationally registered trademark exclusively owned by Saurer Fibrevision Ltd.}, \,\text{Macclesfield}, \,\text{UK}$ 

### Tricolor carpet yarn production with BCF S8





A new platform to meet markets demand seeking a wide spectrum of color separations in tricolor yarns

The concept



A sequential straight yarn path for 3 ends from spinning to winding combined with a new designed CPC-T unit

The benefits



The ability to produce the most diverse color separations, from melange to strongly separated colors

#### **BCF S8 Tricolor with new CPC-T**







More than 200,000 different color shades with three colors



Separate pressure control for each color



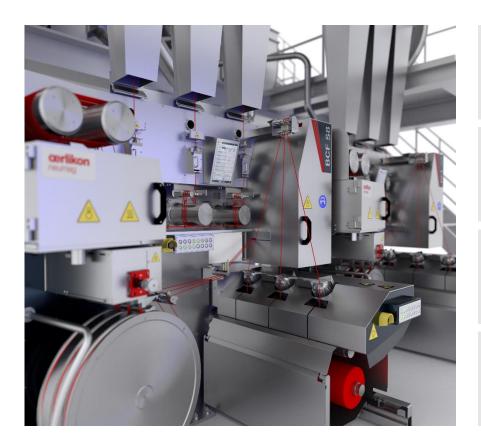
Higher process stability and reliability



Easy thread-up and handling

## Be one step ahead of your competition







Up to 700 filaments



2.5 dpf - guaranteed



Up to 15 % higher throughput



Easy thread-up and handling

## **Polyamide FDY production with WINGS**

### **œrlikon**





## Polyamide FDY production with WINGS



The idea



Efficiently producing high quality polyamide FDY yarns

The concept



Extending the WINGS family to the FDY polyamide process

The benefits



- Cost efficient yarn production
- High yarn quality
- Compact design
- Proven WINGS concept
- Easy handling, installation and maintenance



### œrlikon

# Clean Technology. Smart Factory. Bring it to Life.







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## Thank you.

