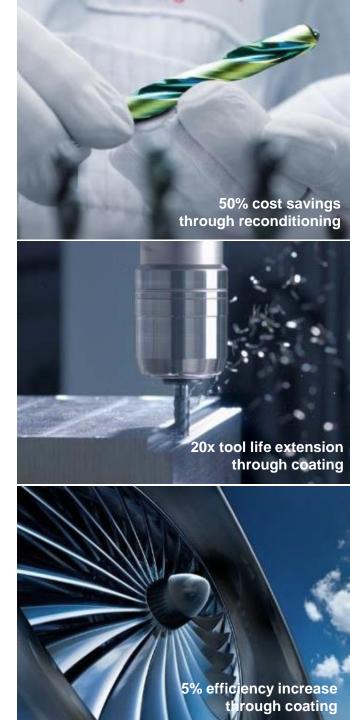


### **Agenda**

- 1 Overview

  Market leader in sweet spots with technology barriers to entry
- Pure Play Transformation
  Unlocking value
- 3 Surface Solutions
  Well positioned for 4-6% sales growth and 300bps margin upside
- 4 Polymer Processing Solutions

  Market leader exposed to structural mid-term growth
- Operational Execution & ESG
  Enabling profitable growth and avoided emissions for customers



# There is not a single day without Oerlikon



### Industrial technology leader in sweet spots with barriers to entry





#### **Surface Solutions (56% of sales)**

Integrated coating solutions based on broad technology portfolio

### **Polymer Processing Solutions (44%)**

Equipment to process polymers used in filament and non-filament

#### #1

Market leader in coating solutions and Filament

#### >30k

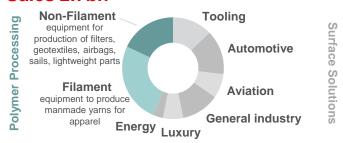
Customers incl. OEM & tier 1

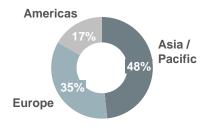
Market leader in sweet spots with technology entry barriers



# Broad market coverage

#### Sales 2.7bn





Aligned to key megatrends



# **Key financials 2023**





Robust financials despite transitory filament downturn

## **Growth strategy Surface Solutions**





Accelerate regional expansion

# Increasing demand for surface solutions driven by efficiency, performance and sustainability

- Realize >20% sales upside in Americas and Asia with new regional organization
- Leverage competitive advantages of integrated offering and broad technology portfolio

>20% sales upside



Leverage techleadership into new areas

- +10% sales upside from extending technology leadership and leveraging core competencies into new growth areas
- Focus on growth opportunities in future mobility, luxury, semiconductor, and cleantech industries

+10% sales upside



**Optimize portfolio** 

- Actively manage portfolio towards high-margin solutions
- Envision selective and accretive bolt-on acquisitions, opportunistically

M&A

& operational upside



**Drive cost** stewardship

- +300 bps upside ... 20-22% EBITDA margin target in mid-term
- Drive operating leverage and continue to focus on cost efficiency, portfolio optimization, mix normalization and pricing

+300bps margin upside<sup>1</sup>



Mid-term growth potential p.a.; short-term impacted by macro headwinds

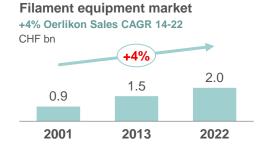
+5% Sales CAGR 15-19

### Mid-term growth drivers Polymer Processing Solutions





- Filament equipment market grew with 4% CAGR 01-22 driven by underlying manmade fibers market growth, innovation, rising GDP and limited alternative resources
- Positive mid-term outlook supported by need for energy saving machines and intact historical growth drivers
- 2023 and 2024 with transitory sales headwinds resulting from customers postponing investment decisions <sup>1</sup>



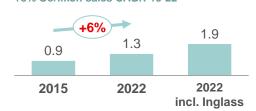


### Fragmented Non-Filament markets

- Market share gain supported by technology synergies with Filament and highly fragmented markets
- 2023 and 2024 impacted by customers postponing Capex decisions in some end markets
- Non-Filament scope to be reviewed in context of pure play strategy

#### Non-Filament equipment market

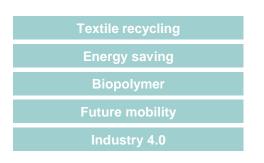
+8% Oerlikon sales CAGR 15-22





# Upside from long-term trends

- Drive R&D to capitalize on long-term trends like textile recycling and biopolymers beyond 2025
- Supported by leveraging of machinery and process knowhow as well as market access





Mid-term growth potential p.a.; short-term impacted by headwinds

Historical Oerlikon sales CAGR are organic and FX adjusted; 1) Customers started to postpone investment decisions (orders) in H2'22 following a) >2 years of lockdowns in China, b) higher stockpiles in the textile industry and selective consumer spending (inflation), c) logistics challenges and tighter financing in China; d) globally weakening industrial production; price cost spreads ('cash margin') of filament customers were negative in 2022 and started to recover into positive territory throughout 2023



# Pure Play Transformation Unlocking Value



# Oerlikon finalizing portfolio transformation started 10 years ago



### From 5 Divisions in 2014 ...

Surface Solutions

Polymer Processing Solutions



Market Leaders in sweet spots with technology barriers to entry

Drive Systems

Advanced Technologies

Vacuum



**Lack** of opportunity for market leadership

### To 2 Divisions 2019 - 2024



- Limited synergies given different end markets, geographies, customers, business models and cycles
- Return focus on transformation following COVID and increasing geopolitical tensions



- Divested: Transitioned to better ownership
- CHF 1.2bn proceeds used for M&A (CHF 1.1bn) and extra ordinary dividends (CHF 0.4bn)

2024 - 2026



Unlock pure play potential upon filament cycle recovery

## By taking the last step Oerlikon unlocks value





### Surface Solutions

- Become agile, dynamic and independent by merging overhead; set free capacity, supporting efficient operations in tensed geopolitical environment
- Pure focus on growth opportunities in the broad fragmented Surface Solutions market
- Create distinct investment opportunity for investors; distinguish brand with clear positioning towards customers

Oerlikon transforming into Surface Solutions pure play



# **Polymer Processing Solutions**

- Attractive asset with low capital intensity; benefiting from structural mid-term growth driven by increasing population/wealth and limited alternatives: Filament equipment market CAGR of +4% in last 20 years
- Leverage potential by allowing strategy and capital allocation to stronger emphasize on focused end market and geography
- Create distinct investment opportunity for investors; distinguish brand with clear positioning towards customers

Oerlikon evaluating options for separation with the aim of value creation for all stakeholders

### Oerlikon Surface Solutions is well positioned for profitable growth



### Market leader in sweet spot with technology entry barriers



#1



>30k

Market leader in surface solutions

Integrated high-tech offering

Global and diverse end markets

Customers incl. industry leaders

# Profitable growth

# Increasing demand for surface solutions driven by efficiency and sustainability

>20%

sales upside

+10%

M&A

+300

sales upside

& operational upside

bps margin upside

Accelerate regional expansion

Leverage technology leadership into new areas

Optimize portfolio

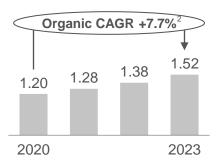
20%+ EBITDA margin target in mid-term

2023: +13% growth in Americas <sup>1</sup>

2023: 11% luxury sales exposure following Riri M&A

2023: Realigned Additive Manufacturing 2023: Q1-Q4 sequential margin improvements







# Oerlikon Surface Solutions Division Overview



# Surface Solutions is well positioned for profitable growth



- 1
- **Sound positioning** as leader in a niche markets with technology entry barriers and diversified end market exposure

- 2
- **4-6% sales growth** potential driven by customers' need for efficiency and sustainability and by Oerlikon innovating, expanding regionally and extending technology leadership into new areas

- 3
- +300 bps upside to 20-22% EBITDA margin target in mid-term, supported by operating leverage, cost focus, innovation and active management towards high-margin solutions

4

Making customers sustainable and driving environmental progress in own operations

### Enabling efficiency and avoided carbon emissions for customers



# Surface solutions improve efficiency, performance and sustainability

Uncoated Older standard Coating Oerlikon Coating

Oerlikon Coating

### Coatings **protect tools** after >4500 holes drilled

corrosion protection | environmental protection | strength | abrasion protection | hardness | chemical stability | conduction control | permeability control | anti-sticking | color flexibility | decorative enhancement | thermal stability | antibacterial | bio-compatibility | magnetism control | anti-reflection | easy cleaning | safety | wear resistance | insulation control | thermal protection | clearance control | erosion protection

1) Across 2019 installed base of aero engines; 2) 20x reflects average across tooling, with peak extension up to 160x

# Oerlikon's coatings for Tooling and Aviation save >100% of Swiss CO<sub>2</sub> emissions



**20x lifetime extension** <sup>2</sup> of a metal tool through coating... resulting in significant metal saving, saving annually ~8.3 mio metric tons CO<sub>2</sub> or ~28% of **Swiss CO<sub>2</sub>** emissions





**5% efficiency increase** in aero turbines through coatings... equaling ~26 mio metric tons of CO<sub>2</sub> reduction annually <sup>1</sup> or ~88% of Swiss CO<sub>2</sub> emissions





Coatings **enable lightweight** materials... 10% less weight extends car driving range by 5-7%...for a 650 km EV this is equivalent to a **marathon** 



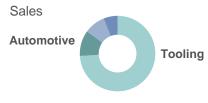
# Developed Surface Solutions into a diversified technology leader close to customers





### 2013







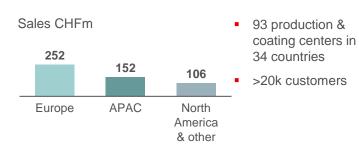
# Specialized in PVD for tooling & automotive with limited growth opportunities

PVD for tooling and automotive





### Functional organization out of Europe



#### 2023

#### Diversified end markets aligned to key megatrends

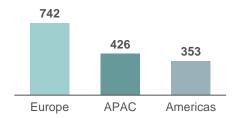


#### Diversified across technologies with growth potential

- PVD/CVD (services & equipment) for tooling, medical, automotive, luxury, energy
- Thermal Spray (equipment & materials) with aviation and energy as key markets
- Additive Manufacturing (services and materials) with focus on aviation (incl. space) and semiconductors



#### Geographical organization driving regional growth



- 161 production & coating centers in 36 countries
- >30k customers

### **Surface Solutions at a glance**





Key metrics

Integrated hightech offering



Sales split



Customers

#1

Market leader in coating solutions

CHF 1.5bn Sales

17% EBITDA margin <sup>1</sup>

**8'432** FTE's

Market leader in coating solutions



**Coating** services



Coating materials



Coating equipment



Components



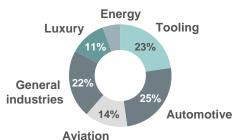
Additive manufacturing

**Enabler of avoided emissions for customers** 





By industry



Global and diverse end markets

# >30k active customers including industry leaders

#### **Serving top players**

- 100% in Tooling
- 75% in Automotive
- 75% in Aviation
- 100% in Energy

Top 10 customers account for ~7% of sales

Broad and stable customer base

### Market leader in niche market with barriers to entry





#### Oerlikon is market leader in niche market

PVD competitors include Ionbond (IHI), Eifeler (Voestalpine), Cemecon; Thermal spray competitors include Höganäs and Praxair (Linde) <sup>1</sup>



### At technology forefront since 1978 (PVD)

e.g. BALINIT ALCRONA EVO (launched in 2024) features 30% tool life increase vs. predecessor coating BALINIT ALCRONA PRO (2010)



### **Application knowhow of interdisciplinary sciences is key**

incl. materials science, physics, chemistry, engineering and IT



### Long-standing customer relationships and industry expertise

Oerlikon with >150 coating centers globally, joined R&D with customers, present across major industries, strong brand



### Strong credibility through integrated offering

Leveraging unique positioning of integrated offering (services, materials, equipment) and broad technology portfolio (incl. PVD, thermal spray, additive manufacturing)





<sup>1)</sup> Market share depending on applications and based on current addressable market

## **Growth strategy Surface Solutions**





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- Envision selective and accretive bolt-on acquisitions, opportunistically

A&M

& operational upside



Drive cost stewardship

- +300 bps upside ... 20-22% EBITDA margin target in mid-term
- Drive operating leverage and continue to focus on cost efficiency, portfolio optimization, mix normalization and pricing

+300bps margin upside<sup>1</sup>



Mid-term growth potential p.a.; short-term impacted by macro headwinds

+5% Sales CAGR 15-19<sup>2</sup>

# One face to the customer benefiting from integrated portfolio

œrlikon

Technology leadership in materials and equipment drives profitable growth in services



### **Coating services**

- Global network of 150+ coating centers; customer proximity and response time is key
- Pick-up and return within 1-2 days
- Bespoke solution offering
- Technologies including thin film (PVD) and thermal spray



**Coating materials** 

- Manufacturing and sale of powders used in thermal spray and additive manufacturing
- New material development using Scoperta's artificial intelligence platform
- Tailored solutions to specific needs



**Coating equipment** 

- Manufacturing and sale of coating machines including thermal spray and thin film
- Largest installed base of coating machines with global coverage
- Aftermarket: spare parts and field services



### **Components**

- Produce high-performance components
- High-end special materials knowhow: In-house competence center for coated and printed components
- Customer synergies with integrated offering



# Additive Manufacturing

- Pioneering the industrialization of additive manufacturing, in series
- Offering 3D printing services and materials (metal-based) for customers in focus application areas



Coating equipment for polymer auto grill



Coated mold



Materials & equipment for turbine blade



Materials & equipment for landing gear



Battery shielding for EVs



Printed support structure for satellite radio antenna

### Unparalleled ability to innovate across multiple end-markets





Thin film (PVD)





**Thermal** spraying



**Additive** manufacturing

### Services, materials, components and equipment based on leading-edge coating technologies

- Carbides, nitrides and other materials are deposited onto the surface of a component or tool; occurs in a high temperature vacuum with the support of electrical and magnetic field forces
- Sustainable coating technology with reconditioning capability for circular economy
- Metals, ceramics and other materials are deposited onto the surface; materials are applied with 'spray guns' at high velocity onto a component through a plasma or combustion stream
- Sustainable coating technology with reconditioning capability for circular economy
- Laser(s) are building complex structures layer by layer from a metal powder bed (3D printing)
- Sustainable production technology with minimal waste compared to subtractive production technology

**Oerlikon enabling** 

surface properties



Integrated modular technologies tailored to the customer's needs

Supported by R&D investments: ~5% of sales

# Combining surface technologies tailored to the customer's needs



Case example: SubSea valve

### Oerlikon increasing efficiency, extending service life and reducing weight

# Thin film (PVD)



**Valve coatings:** Corrosion, erosion protection, low friction, wear resistance

# Thermal spraying

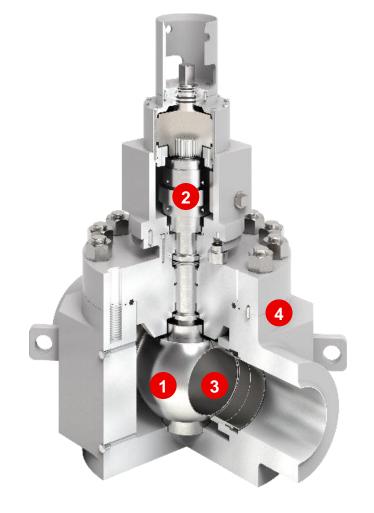


Valve Stems/Actuators: Clearance reduction, antiabrasion, low friction, improve efficiency

# Additive manufacturing



Valve Ball & Body: Additive manufacture of valve balls and valve bodies for weight reduction



# Cutting-edge surface solutions technology: Deep dive PVD



**PVD** coatings: Harder than steel ... Coating

... but only a few thousandths of a millimeter thin

Human hair

0.05mm 0.003mm

BALINIT® hard coating

### High-tech coating processes: Deep dive PVD

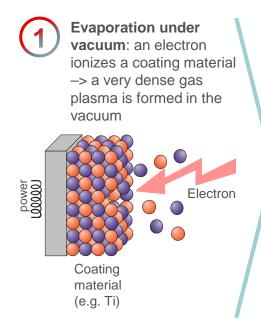
### **œrlikon**

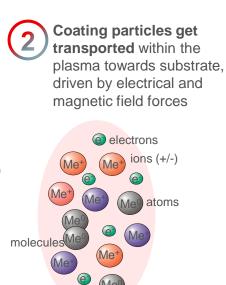
### **Physical Vapor Deposition**

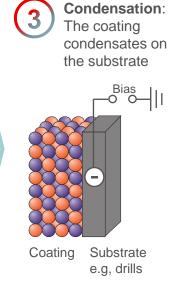
PVD is a coating process carried out under high vacuum and at temperatures between 80 and 600 °C; metals are deposited onto a surface serving as ultra thin, resilient and environmentally friendly coating



Drills
getting
coated in
a PVD
vacuum
chamber









# Surface Solutions margins of 20%+ continue to be a key management focus

### **œrlikon**

### 2019-21:

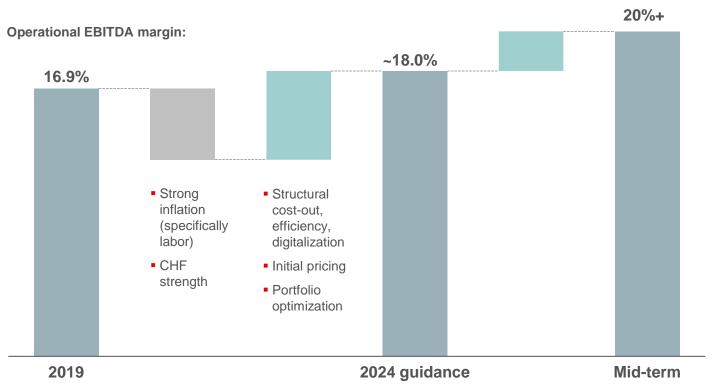
Efficiency gains despite lower sales during COVID ->18.3% margin in 2021

#### 2022-23:

Unprecedented input cost pressure, not yet fully compensated

#### 2024 - Mid-term:

Drive innovation, operating leverage and efficiency



# Clear path to 20%+ margin:

- Operating leverage
- Continued pricing supported by new dedicated pricing team and technology
- Accelerating innovation & digitalization (SAP implemented by YE'23; digital twin rollout in 2024 to digitize the coating process)
- Operational excellence incl. continued footprint optimization
- Overhead efficiency incl. continued streamlining of organization
- Portfolio optimization towards high-margin solutions



# Polymer Processing Solutions Division Overview

### **Oerlikon** is evaluating options for separation of the division

with the aim of value creation for all stakeholders (as announced on 20 Feb 2024)



### Polymer Processing Solutions at a glance





Key metrics

#1

Filament market leader with 40-50% share

CHF 1.2bn Sales

14%
Operational EBITDA margin

**3'798** FTE's

Market leader for polymer processing solutions



### Offering



Machines & plants
For polymer processing



Components

Hot runner systems, pumps



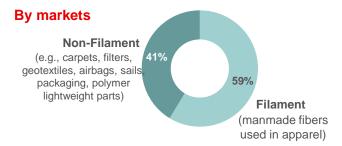
Commissioning, maintenance & repair, advisory and upgrades

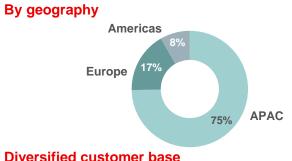
Integrated high-tech offering

**Services** 



Sales split





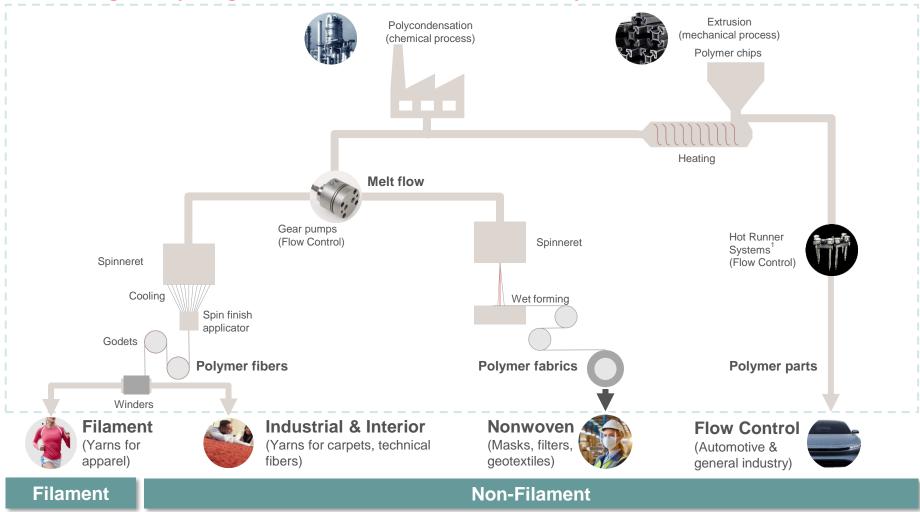
Filament: Hengli Group, Reliance Industries, Tongkun, Hengyi, ... Non-Filament: BMW, Magna, 3M, ABB, Berry, ...

**Geared towards APAC and Filament** 

# Technological leadership drives growth



### Technological synergies between Oerlikon machinery for Filament and Non-Filament





(1) Hot Runner Systems only go through the process of extrusion, not polycondensation

## Manmade fibers outgrowing natural fibers



### **Growth drivers**



Population growth and affluence



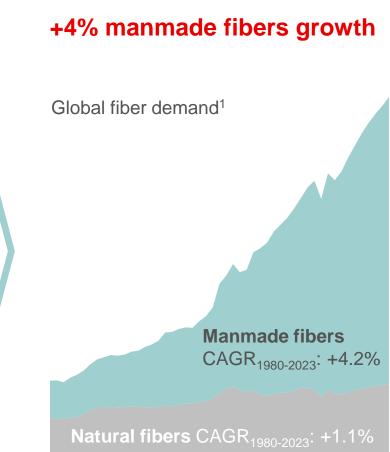
**Better availability** 



Lower resource intensity



Superior product characteristics (e.g., stretch, waterproof)



2000

2010

2020

2030E

1980

1990



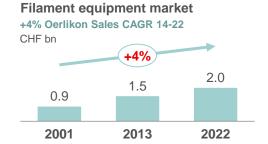
Oerlikon with ~45% global equipment market share for manmade fibers used in apparel (filament)

### Mid-term growth drivers Polymer Processing Solutions





- Filament equipment market grew with 4% CAGR 01-22 driven by underlying manmade fibers market growth, innovation, rising GDP and limited alternative resources
- Positive mid-term outlook supported by need for energy saving machines and intact historical growth drivers
- 2023 and 2024 with transitory sales headwinds resulting from customers postponing investment decisions <sup>1</sup>



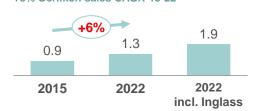


Fragmented Non-Filament markets

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#### Non-Filament equipment market

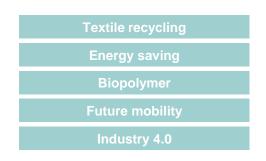
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- Supported by leveraging of machinery and process knowhow as well as market access





Mid-term growth potential p.a.; short-term impacted by headwinds

Historical Oerlikon sales CAGR are organic and FX adjusted; 1) Customers started to postpone investment decisions (orders) in H2'22 following a) >2 years of lockdowns in China, b) higher stockpiles in the textile industry and selective consumer spending (inflation), c) logistics challenges and tighter financing in China; d) globally weakening industrial production; price cost spreads ('cash margin') of filament customers were negative in 2022 and started to recover into positive territory throughout 2023



# **Operational Execution & ESG**

Enabling Profitable Growth and Avoided Carbon Emissions for Customers



## Operational focus to drive profitable growth





Grow & innovate

#### 3 focus areas

- Drive sustainable innovation and technology leadership to outgrow markets
- Leverage technology leadership into new growth areas and geographies; organically and with accretive M&A



Technology leadership



Improve profitability

- Apply strict cost focus and benefit from operating leverage
- Improve ROCE to double-digit supported by strengthened capital allocation framework
- Optimize portfolio towards high-margin solutions
- Maintain strong balance sheet

Capital allocation framework



Drive sustainability progress

- Enable customers' sustainability and efficiency: Provide ecological and economical value propositions by focusing R&D and new products on sustainability criteria
- Drive Oerlikon's environmental and social progress, focus on strong corporate culture

Sustainability proposition

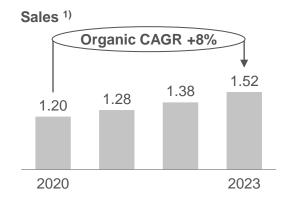
### **Growth & innovation track record**



### Surface **Solutions**

### **Pure Play Focus**

### Demand driven by sustainability and efficiency



- Geographic expansion in Americas (2023: +13% 2) supported by new organization
- Leverage technology leadership into new areas: e.g. battery shielding, semiconductors, luxury and hydrogen
- **Innovate**: e.g. launching next generation coatings, broaden customer reach via online sales platform

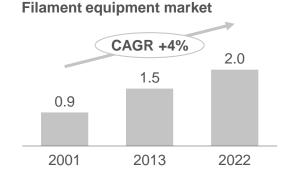
# **Processing**

**Evaluating options** for value creative separation

Polymer

**Solutions** 

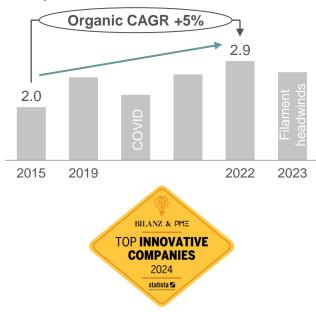
### Mid-term demand driven by rising GDP and limited alternative resources



- Leadership in filament: in terms of innovation (e.g. WINGS) and market share (~45%); 2023/24 impacted by cyclical downturn
- Non-Filament market share gain supported by technology synergies with Filament and highly fragmented markets
- **Upside** from long-term trends, e.g. textile recycling



#### Group sales<sup>1</sup>:



<sup>1)</sup> CAGR is FX adj. and excludes M&A; Group sales exclude the Drive Systems Division which was divested in 2019; 2) FX adjusted

## Growth accelerated by sustainable megatrends



### Oerlikon R&D on

**Energy consumption** 

Water consumption

**Social impact** 

Waste emissions

Raw material consumption

Service time

### Oerlikon's coatings for Tooling/Aviation save >100% of Swiss CO<sub>2</sub> emissions



**20x lifetime extension** <sup>3</sup> of a metal tool through coating (vs. uncoated)

Resulting in significant metal saving, saving annually ~8.3 mio metric tons CO<sub>2</sub> or ~28% of Swiss CO<sub>2</sub> emissions <sup>4)</sup>





Coatings on aero turbine increase efficiency ~5%

Equals ~26 mio metric tons of CO<sub>2</sub> reduction annually<sup>1</sup>... ~88% of Swiss emissions <sup>4)</sup>





Coatings and hot runner systems **enable lightweight** materials

10% less weight extends car driving range by 5-7%...for a 650km EV this is equivalent to a **marathon** 





Manmade fibers are **less resource intensive** than natural fibers and increasingly recyclable

A cotton t-shirt requires around 1'300l of water compared to ~8l for polymers... savings equivalent to ~9 bathtubs





~30% energy saving with new filament equipment

Annual  $CO_2$  emission savings  $^2$  of Oerlikon winders of 2.6mt... equivalent to annual gasoline consumption of ~500k cars



<sup>1)</sup> Across 2019 installed base of aero engines; 2) Data per 2020 installed base for new vs. older generation of FDY on POY take-up and winding machinery; 3) 20x reflects average across tooling, with peak extension up to 160x; 4) 29.6 mio metric tons as per 2022

# Strengthening the base for profitable growth

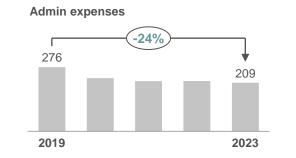




**Portfolio** 

optimization

- 24% overhead savings since 2019, despite 3 acquisitions
- Proactive cost actions initiated in Q4'22 ahead of filament headwinds
- Continued focus on efficiency incl. digitalization and footprint optimization of coating centers



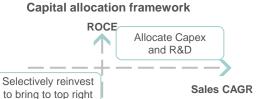
#### Stringent portfolio reviews

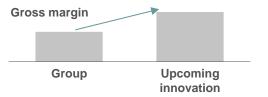
 Following inline ePD exit in Q4'22, exiting Teknoweb / OBA-Automation and realigning AM in Q4'23, thereby structurally improving profitability

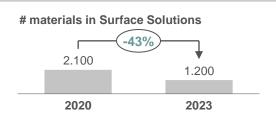
Upcoming innovation attractively priced in Surface Solutions, enabled by strengthened capital allocation framework with increased focus on

 Eliminating products which are subscale and dilutive in Surface Solutions' materials and equipment portfolio

commercialization







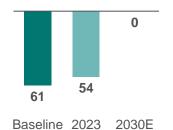


Taking measures to structurally improve mid-term profitability

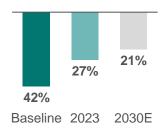
### **Progressing towards 2030 ESG targets**



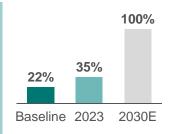
Reduce emission intensity (scope 1&2) in relevant operations to become climate neutral <sup>1</sup>



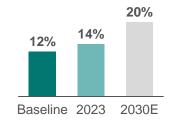
Reduce % of disposed waste



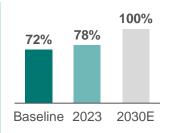
Increase % of electrical energy from **renewable** sources



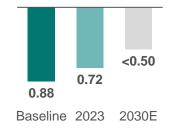
Increase % of women in management and leadership roles



Increase % R&D investment in products that must cover ESG criteria



Reduce rate of recordable work-related **injuries** (TAFR)





<sup>1)</sup> Measured in tons CO<sub>2</sub> eq / CHFm sales; More information can be found in the Oerlikon Sustainability Report online

# **Investor Relations**



Stephan Gick
Stephan.gick@oerlikon.com
+41 58 360 98 50



Aymeric Jamin
Aymeric.jamin@oerlikon.com
+41 58 360 96 59



ir@oerlikon.com



www.oerlikon.com/en/investors



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