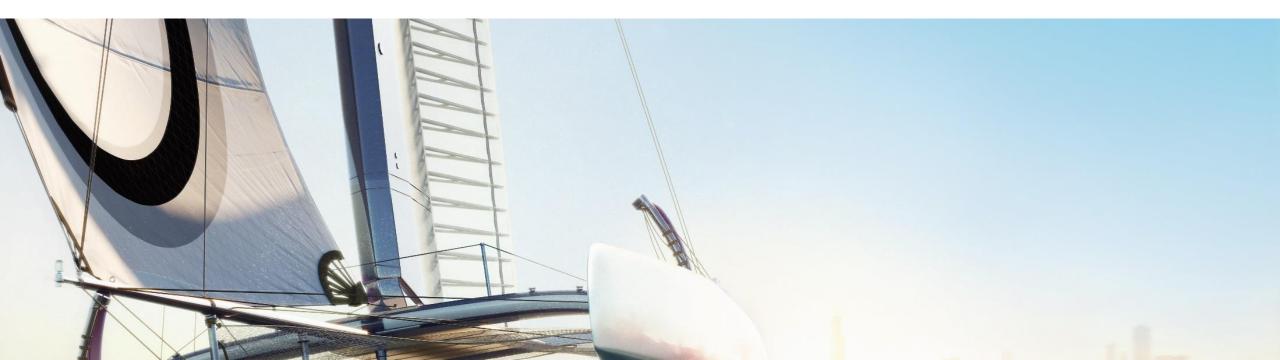


Polymer Processing SolutionsDivision



Division Polymer Processing Solutions





Georg Stausberg

CEO Polymer Processing Solutions

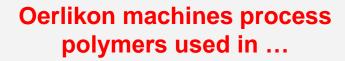
Joined Oerlikon: 2007
30 years experience in the polymer processing industry

Accelerate expansion into Non-Filament and capitalize on long-term industry trends

There is Not a Single Day Without Oerlikon









Filament

... diapers and wipes



... pellets and bottles



Non-Filament

Polymer Processing Solutions at a Glance





Key metrics



Offering



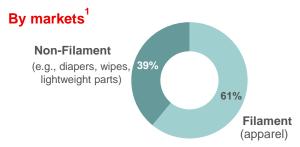
Sales split

#1

Filament market leader

Machines & plants

For polymer processing



CHF 1.4bn

Sales

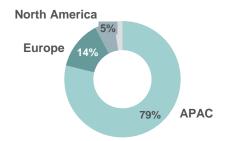
16%

Operational EBITDA margin

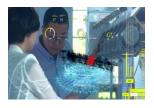
Components

Hot runner systems, pumps

By geography



4'218 FTE's



Services

Commissioning, maintenance & repair, advisory and upgrades

Focus on Non-Filament growth and diversification

Market leader for polymer processing solutions

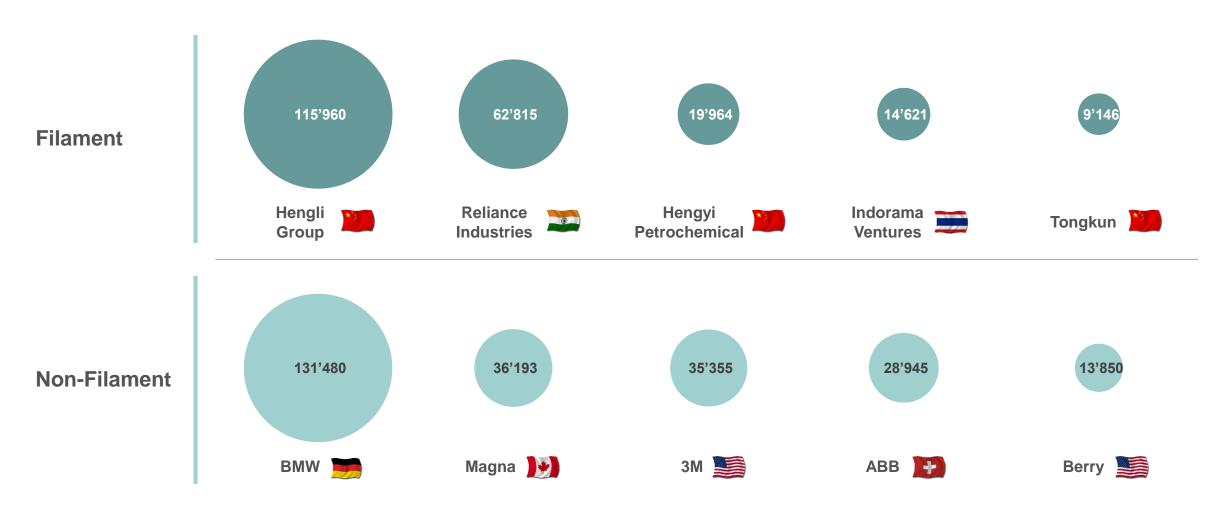
Integrated high-tech offering

(1) Assuming 12 months of INglass consolidation

Serving a Global Set of Leading Customers



Revenues of leading customers in USDm¹



⁽¹⁾ Latest reported period (annual) or company website

No Modern World Without Polymers – Oerlikon is a Crucial Enabler cerlikon



Essential

- **Resource scarcity**: No other option to dress the world high scalability in manmade yarn production vs. capacity constrained natural fibers
- **Economic viability**: Competing materials are substantially more expensive
- Superior characteristics: Durability, stretchiness, water-resistance, stain resistance



Versatile

- In countless applications such as yarns and automotive parts
- Replacing materials like glass, metal and wood; reducing weight in automotive applications like e-mobility
- Improved ecological impact of manmade vs. natural yarns



Circular

- Recyclability as the enabler of circularity
- **Biopolymers** is a fast-growing segment, substituting fossil-based polymers



Growth Strategy



4-6%

Mid-term growth potential

profitable

sales growth

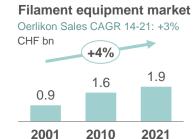


Enhance leadership in Filament

pg. 9 – 12

3 areas in focus

- Filament equipment market grew with 4% CAGR 01-21 driven by underlying manmade fibers market growth
- Positive 22-26 outlook supported by need for energy saving machines and vertical integration of filament products



Oerlikon outlook 22-26

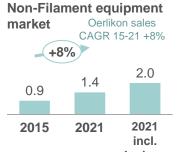




Expand in Non-Filament

pg. 13 - 17

- Solid market growth; Oerlikon increased strategic focus on Non-Filament since 2015
- Expansion supported by technology synergies with Filament and opportunistic bolt-on M&A in highly fragmented markets



Oerlikon outlook 22-26



p.a.

Inglass

Oerlikon outlook



Capitalize on long-term trends

pg. 18 - 23

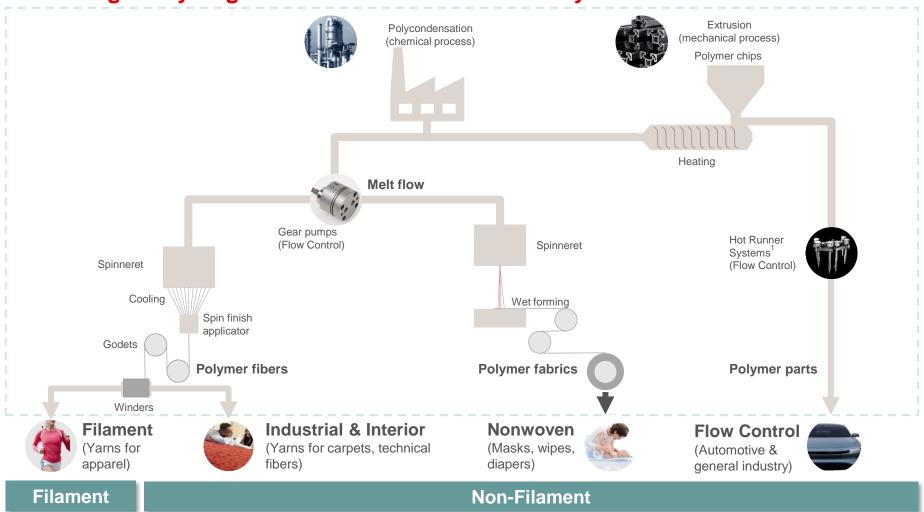
- Drive R&D to capitalize on long-term trends like textile recycling and biopolymers beyond 2025
- Supported by leveraging of machinery and process knowhow as well as market access

Energy saving

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

Filament – Enabling Customers to Dress the World

œrlikon



61% of sales¹

Oerlikon offering





Market leader with 40-50% equipment market





Customers' products based on Oerlikon equipment



Leisure apparel







SASA



USD ~10.7bn Invested (2015-29)²

10m t/yr Total capacity (2029)²

Fully automated plant built for one of the world's leading manufacturers of fibers, filaments and specialty polymers



Modern **Syntex**



0.25m t/yr Total capacity (2023)

First manmade fibers plant in Bangladesh as Oerlikon turn-key melt-to-yarn production

(1) Assuming 12 months of INglass consolidation; (2) Total investment, not only Oerlikon and filament

Manmade Fibers Outgrowing Natural Fibers ...



Growth drivers



Population growth and affluence



Better availability

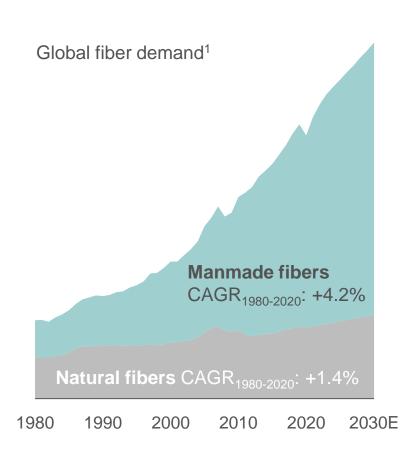


Lower resource intensity



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

+4% manmade fibers growth

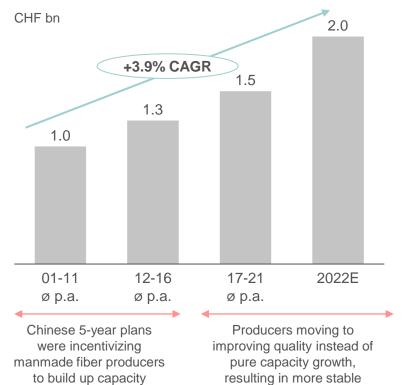




... Leading to Continued Growth in the Equipment Market

œrlikon

2001-21 filament equipment market with +3.9% CAGR



market and consolidation

2022-26 with expected strong order flow

Upstream investments

- Upstream investments of top Chinese customers resulting in significant new demand for spinning equipment until 2025
- "Vision India" aims to provide substantial new manmade fiber capacity until 2025

Consolidation

 Top 25 manmade fiber manufacturers expected to account for 60% of production in 2025 vs. 50% in 2020

Replacements with energy saving machines

- Installation of resource saving machines: New Oerlikon machines saving significant energy compared to older generation
- Environmental regulation as a future driver for replacement



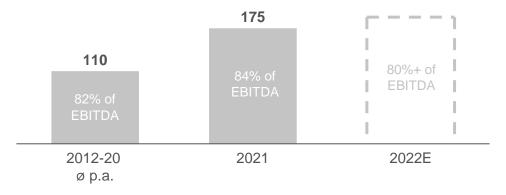
Filament is a Cash Generative Foundation



Low capital intensity supported by sound business model



CHFm





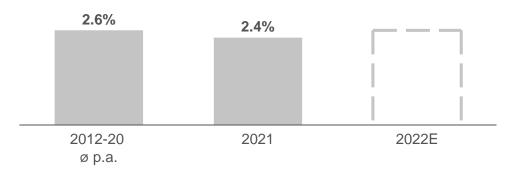
Niche market

Technology entry barriers

Long-term customer relationships



Capex / sales



(1) Refers to total Polymer Processing Solutions; cash generation is EBITDA minus Capex

Mon.Filam

Growth in Nonwoven & Plant Engineering

œrlikon

16% of sales¹



Nonwoven



5%

Market growth (CAGR 21- 26E) CHF ~450m

Market size (equipment)

- Equipment market growth supported by mid to high single-digit market growth rates in underlying end markets of hygiene, wipes and filters
- Underlying end market growth drivers include substitution of less economic alternatives, hygiene standards, sustainability trends and regulation





Hygiene articles Wipes & Diapers Facial masks

Filters
Geotextiles

Ā

Plant Engineering



Market growth (CAGR 21- 26E) CHF ~650m

Market size (equipment)

- Polycondensation plants growth driven by GDP as well as PET packaging;
 Polycondensation plants produce PET for textile and non-textile application, including packaging
- Staple fibers equipment market expected stable



Polycondensation plants



Staple fiber equipment



Textile and non-textile applications (incl. PET packaging)



Growth initiatives to outperform market

- Increase market share in applications where Oerlikon has a strong position in terms of technology and customer access; extend product offering to further hygiene applications
- Win market share in wipes by introducing new plants processing biodegradable materials

Growth initiatives to outperform market

- Polycondensation plants targeting to increase market share in continuous polymerization (CP) business outside China and continuing its diversification into packaging
- New, disruptive staple fibers equipment to improve fiber quality, reduce energy costs by ~23% and increase production speed by up to 25%

(1) Pro-rated for 12 months of INglass; market data on slide refers to addressable market

Innovate Industrial & Interiors to Outperform Market



10% of sales¹

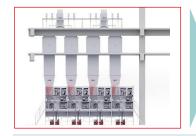




CHF ~90m

Market size (equipment)

- Growth supported by increasing applications of technical- and geotextiles
- Increasing demand within manufacturing industry and automotive, e.g., airbags
- Industrial yarns representing innovation driver for other manmade fiber segments





Airbags
Safety belts
Bandages
Geotextiles
Sails





CHF ~80m

Market size (equipment)

- Residential business supported by homebuilding, home office and replacement
- Contract business supported by building and renovation of commercial property, such as hotels and offices





Carpets

Growth initiatives to outperform market

- Drive machine and process innovation to increase speed, reduce energy
- Extend service portfolio
- Establish modular platform for synergetic development of both technologies

Flow Control Overview

œrlikon

12% of sales¹



Oerlikon offering



Gear pumps and hot runner systems (HRS) to control and optimize the flow and distribution of molten polymers





Customers' products based on Oerlikon solutions



Car interiors, e.g., cockpit parts

End products include light-weight parts of car interiors as well as exteriors such as headlights and bumpers

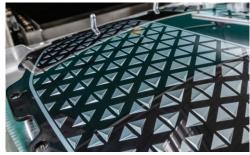
Durable containers and packaging





Projects

ENGEL for BMW i4



BMW grille is injected with HRSflow and coated by Surface Solutions

BSH BOSCH SIEMENS Haushaltsgeräte





Significant material saving due to replacement with Oerlikon HRS machines



Opportunity to Expand Into New Flow Control End Markets





Gear metering **pumps**





CHF ~200m

Market Growth

Market size

- Market for textile pumps benefits from strong demand for spinning equipment business
- Further diversification into non-textile segments such as paint metering pumps, coating, and adhesives





5%

CHF ~600m

Market growth Market size (CAGR 20- 24E)



CHF ~2bn

Market size

Automotive

- Demand for HRS products driven by model launches of new cars
- Benefiting from accelerated model launches as a result of transition to electric vehicles. (EV) and increasing market differentiation with introduction of new brands (e.g., Cupra, NIO)
- Benefiting from ongoing trend to higher polymer share in cars to reduce weight

Non-automotive

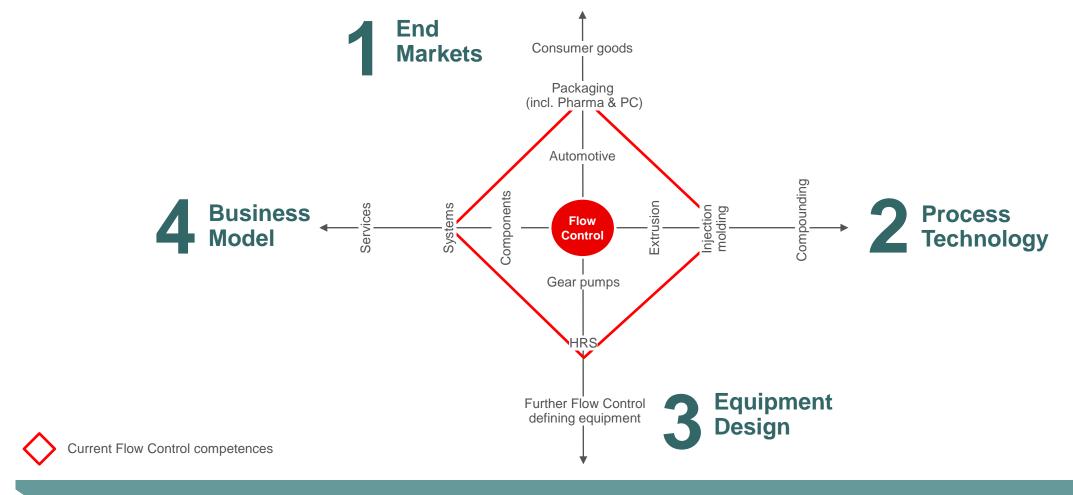
- Oerlikon well-positioned to outperform competitors, aiming to increase current 1% market share to ~10%
- Enter adjacent markets such as transportation systems, packaging, medtech, pharma and personal care
- Organic growth initiatives focusing on innovation and customer synergies with **Surface Solutions**
- Complemented with opportunistic bolt-on M&A in highly fragmented market

Nonautomotive with sales upside of CHF ~200m

Source; HRS market sizes per IC Market Tracking for Hot Runner Systems 2021

Organic and Inorganic Growth Avenues in Flow Control





Flow Control represents a growth platform with various interfaces for further expansion of business and core competences

Growth Opportunities From End-market Trends



Sustainability



Sector trends

Textile recycling

Energy savings as growth driver

Biopolymers

Future mobility and lightweight materials

Oerlikon contribution

Innovate and capture growth opportunities

Digitalization



Machine-based learning technology / connectivity



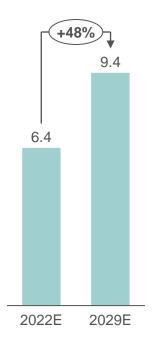
Industry 4.0
Remote services

Textile Recycling to Change the Fiber Industry



Manmade fibers increasingly based on recycled PET

Recycled PET production in million tonnes 1





~54% CO₂ reduction for yarn production from rPET vs. virgin PET; representing 14 million tonnes CO₂ in 2022, equaling 45% of Swiss CO₂ emissions ²

Oerlikon well-positioned to participate in PET textile recycling

PET is most recycled polymer

- Oerlikon is right in the heart of the textile value chain, with significant potential to change the industry to become circular
- Oerlikon is already in the market with various mechanical recycling solutions, e.g., processing PET bottles into yarn;
 Oerlikon is also conducting R&D for textile-to-textile recycling

Oerlikon is the partner to develop textile recycling

- Textile industry with its complexity in feedstock requires more than just mechanical recycling technologies to reach circularity
- Oerlikon engaged in R&D and partnerships to further develop chemical recycling, increasing scalability and versatility of feedstock processed



Incremental market for textile recycling equipment presenting upside of up to CHF 500m p.a. beyond 2028

Energy Savings as Growth Driver



Increasing energy efficiency requirements



Reduce greenhouse gases impact from footwear & apparel



Demand by end customers for sustainable products



Increasing regulatory / governmental requirements

New Oerlikon equipment significantly reducing greenhouse gases emissions

~30% Energy reduction

Saving ~2.6 million tonnes CO₂ p.a. on installed base vs older generation equipment; equivalent to energy consumption of ~328k households



~30%

Saving 57k tonnes of waste p.a. vs. older generation equipment; which is Waste reduction equivalent to the weight of 380 million tshirts



~35%

Space reduction

Space saving in manmade fiber plants of 204'000m² in installed base vs. older generation equipment, which is equivalent to 29 football fields



Filament industry in China reduced energy consumption by 45% per ton between 2015 and 2019 - Oerlikon significantly contributed



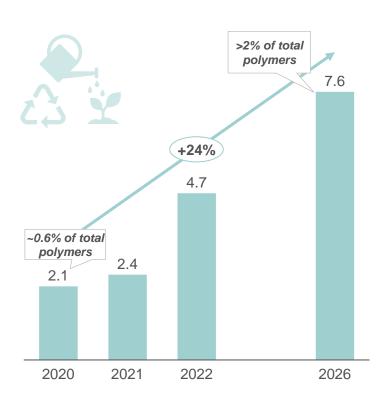
Customers shortening machine replacement cycle to increase efficiency

Biopolymers to Gain Traction as Alternative Raw Material



Future trend to biopolymers¹

Global production capacities of biopolymers (in m t)



- Biopolymers have different processing characteristics compared to conventional polymers, resulting in new challenges for equipment suppliers
- Biopolymers required to improve sustainability in industries such as packaging and single-usepolymers
- Oerlikon with footprint in packaging via Flow Control (HRS) (e.g., coffee capsules, bottle caps) and in single-use products via Nonwoven (e.g., wet wipes)
- Oerlikon with technological edge to engineer solutions for versatile biopolymer applications



Oerlikon to outperform competition based on biopolymer-compatible equipment

Source: European Bioplastics (2021)

⁽¹⁾ Biopolymers are bio-based, bio-degradable, or both; biobased = material or product is (partly) derived from biomass e.g., food waste, cellulose or sugar cane; bio-degradation = natural chemical process during which material is converted to natural substances

Future Mobility as Incremental Growth Area

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Growth of highperformance lightweight polymer parts

- Industry transition to increasingly lightweight and fuel-efficient vehicles
- Substitution of metals and other materials resulting in higher polymer share in cars
- Electric vehicles range extension: every 10% weight reduction in a vehicle improves efficiency by 5-7%
- Global automotive polymer market expected to grow with 4.4% CAGR₂₁₋₂₈





Drive growth of lightweight and increasingly sophisticated polymer components

Source: Grand View Research

ong tem's

Artificial Intelligence as Enabler for Autonomous Yarn Manufacturing



Interlinking and optimizing equipment with Industry 4.0



Smart Service Apps combining data analytics and process know-how will become an additional differentiator in the polymer processing industry



Oerlikon's Common Service Platform (CSP) is the enabler to

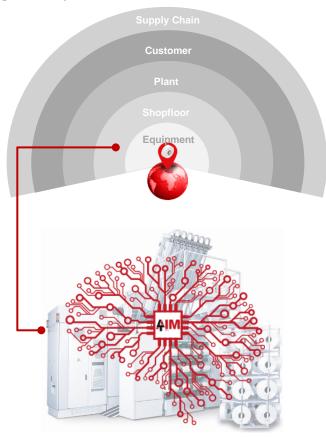
- support customers based on individual requirements and maturity within their digital transformation
- generate additional value for customers, e.g., by providing structured datasets or software applications, such as AIM4DTY¹
- maintain data sovereignty and continue to develop data driven business models where feasible



Customer benefits are reduced costs and **industry-leading quality** through

- remote services and better understanding of lifecycle
- preventive diagnostics supported by machine-based learning technology
- reduction in waste and downtime

CSP as Digital Ecosystem



Artificial Intelligent Manufacturing for DTY (AIM4DTY)

Autonomously and instantly translates the pattern of a fault graph into a clear recommended action to reach operational excellence at all times

Conclusion: Well Positioned for Profitable Growth



1 Leader in Filament

- Positive 22-26 outlook supported by upstream investments and replacement cycles at customers
- +4% market CAGR 01-21 driven by underlying manmade fibers growth

More growth from Non-Filament

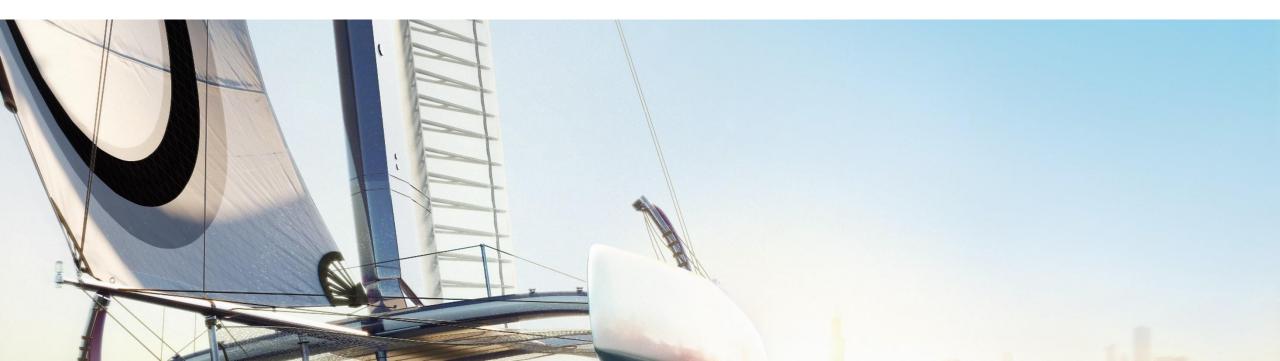
- Expanded from CHF 2bn Filament to total CHF ~5bn+ addressable market by further developing Non-Filament business
- Oerlikon to outperform mid-single-digit market growth through market extension and market share gains
- Upside from bolt-on M&A

Upside from long-term trends

- Invest into sustainable innovation and benefit from trend towards energy-saving equipment
- Textile recycling as potential third growth pillar
- Long-term population growth and rising affluence underpin the need for polymer processing

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Q&A



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