

# ▶ Spinning lines

**SML**  
EXTRUSION LINES – ENGINEERED TO PERFORM ▶

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## ▶ *Austrofil* LABTEX

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Multifilament yarns



**EXTRUSION LINES –  
Engineered to perform**

## Cost-efficient production of yarn samples

SML's Austrofil LABTEX is specially designed to produce small quantities of yarns for testing and R&D purposes. It offers easy, rapid and cost-effective product development. The product settings can be scaled to a full size industrial line without requalification at a later stage.

### KEY FEATURES

- Fast and cost-efficient product development
- Technically corresponding to an industrial production line
- FDY and POY production on a single machine
- Stable micro-filament production
- High flexibility in use of various polymers, including recycled materials



### PRODUCT PROPERTIES

Excellent yarn properties in terms of:

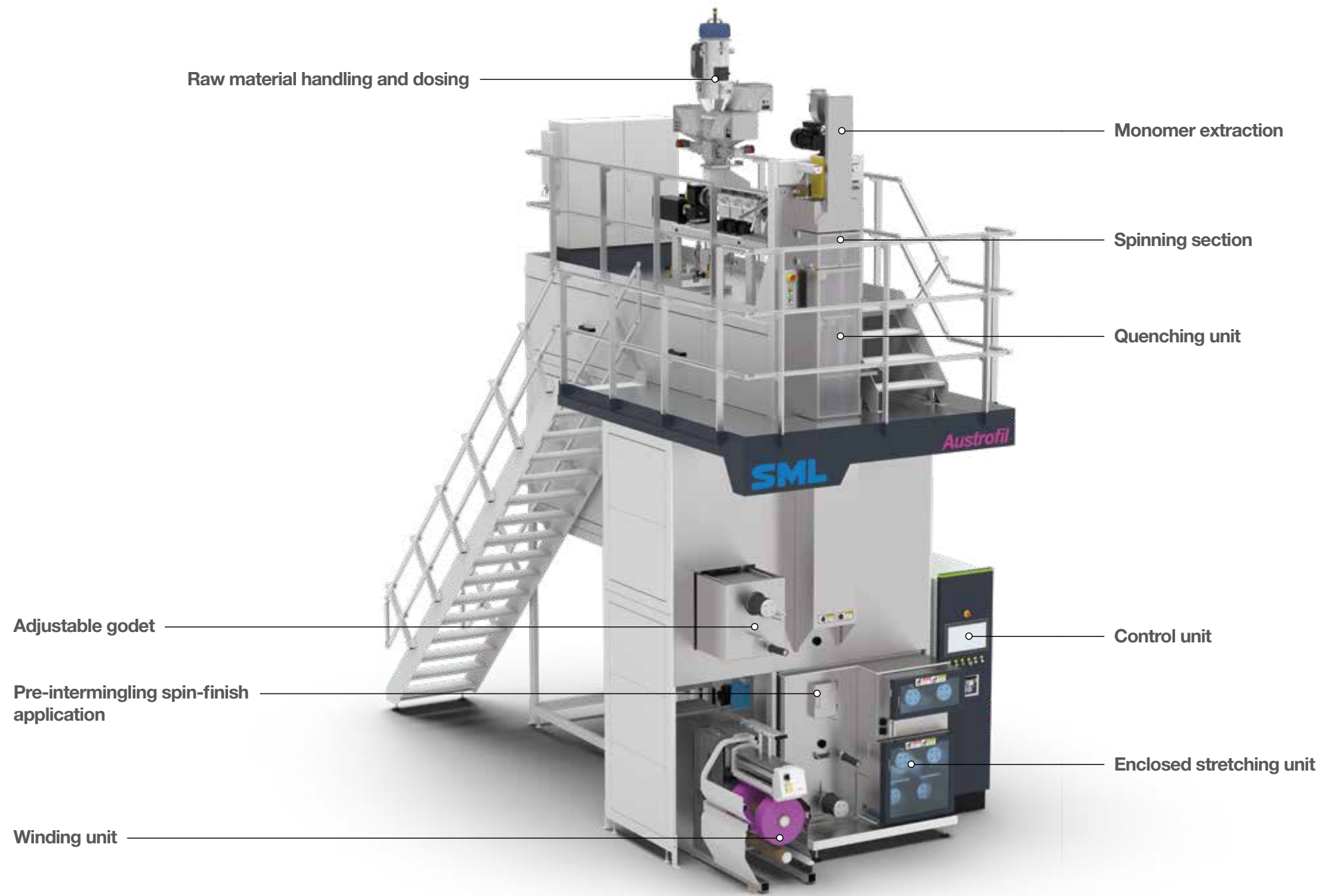
- tenacity
- elongation
- residual shrinkage



**Austrofil LABTEX – the premier laboratory-scale solution that accelerates research and development and delivers excellence for the spinning industry.**

The range of applications is as diverse as the polymers that can be processed, offering limitless flexibility for every project.





**LINE CONFIGURATION EXAMPLE**

	Austrofil LABTEX	
Materials	PET, PA6	PP
Titre range	50–500 den / 55–550 dtex	150–1,200 den / 165–1,320 dtex
Extruder	30/28	
Output	Max. 30 kg/h	
	The actual maximum output depends on product specifications and extruder configuration.	
Total number of ends	2 or 4	
Dosing system	Continuous volumetric dosing with up to 3 components.	
Number of heated duos	3	
Winder type	grooved roll	
Winding speed	2,500–4,500 m/min	
Number of yarns	2 or 4 per winder	
Bobbin diameter	max. 420 mm	
Core diameter	94 mm	
Dimensions L x W x H	approx. 3 x 7 x 7 m	

**MACHINE COMPONENTS**

- ▶ Material handling, drying and crystallisation equipment
- ▶ Extrusion unit: extruder, subsequent static melt mixer and a screen filter for high melt quality, homogeneity
- ▶ Spinning head with electrical heating for uniform temperature distribution
- ▶ Quenching unit with conditioned air and constant humidity for a stable quenching process
- ▶ Stretching unit: FDY and POY configurations with highly precise ceramic godets
- ▶ Intermingling and pre-intermingling available
- ▶ Fully automatic winding unit with 2 or 4 ends per winder

**PRODUCT SPECIFICATION**

Products	Fully drawn yarn (FDY) Partially oriented yarn (POY)
Polymer	Polypropylene, MFR 10-25 Polyethylenterephthalat IV 0.62–0.8 Polyamid RV 3.4
Titre range	50–1,200 den / 55–1,320 dtex

▶ For more information  
about  
**SPINNING LINES**  
follow the link



Engineered to perform.

## SML – the leading manufacturer of high-end extrusion lines

- ▶ Cast film lines
- ▶ Sheet lines
- ▶ Coating and laminating lines
- ▶ Spinning lines
- ▶ Winding technology

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