

multi- filament lines

SML
EXTRUSION LINES – ENGINEERED TO PERFORM ▶

▶ **Austrofil® VERTEX**



**Extrusion lines –
engineered to perform**

Higher output at lower titres

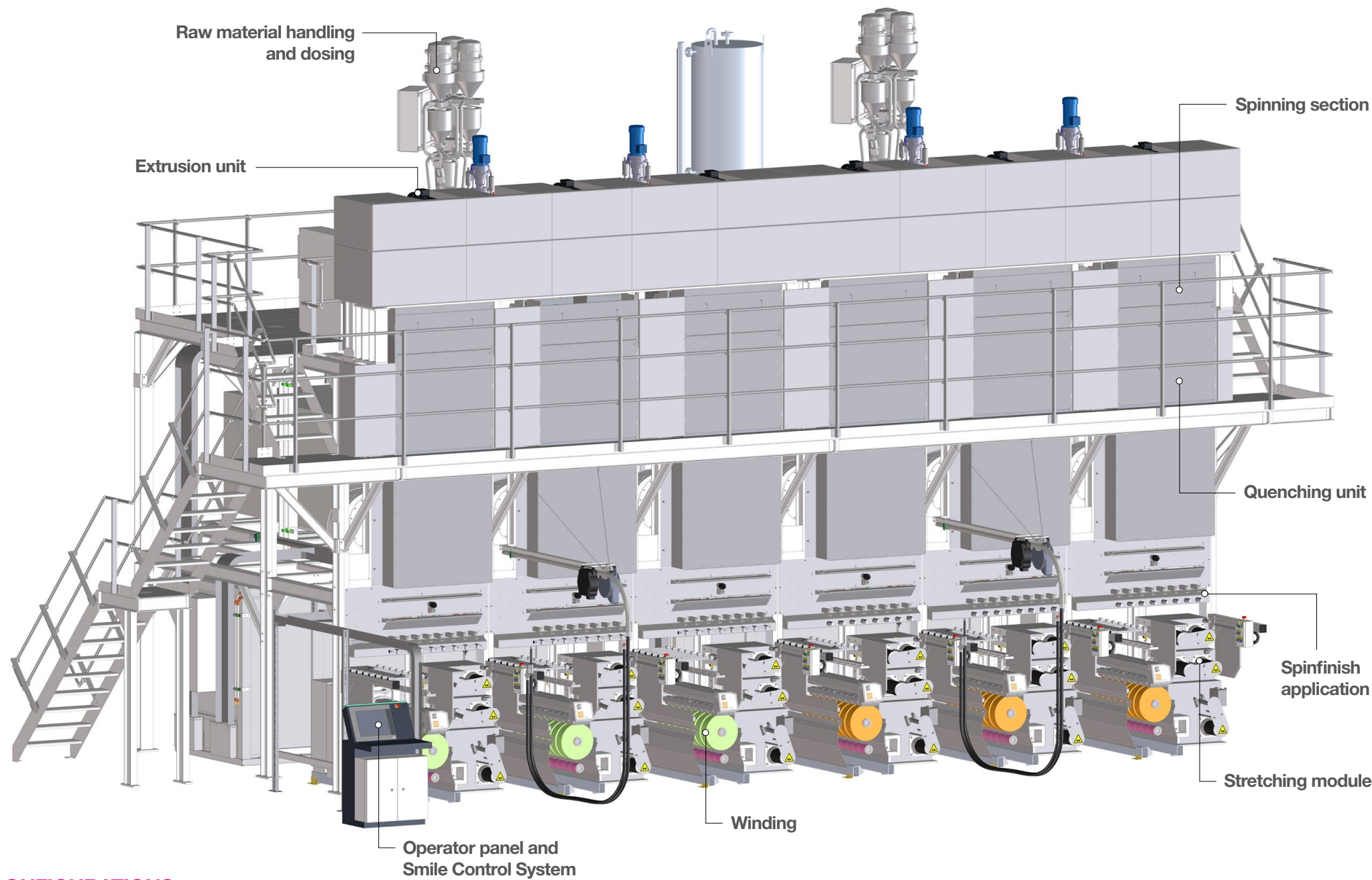
SML's VERTEX continuous filament (CF) line is specially designed to produce partially oriented (POY) or fully drawn (FDY) yarns at low titres. The vertical line concept ensures high output in the titre range of 75 - 800 den. Higher line speeds are achieved by a sophisticated thread guiding.

Compared to the HT/MT line, the VERTEX shows an increased output of 50 % at 250 den.

Key Features

- High efficiency and output for low titres
- High flexibility in the use of different polymers (PET, PP, PA)
- Tailor-made line configuration possible
- Compact design
- Easy start up process with ramp up function
- High-performance winding technology
- Accurate dosing of master batches and additives
- Industry 4.0 standard





MACHINE COMPONENTS

- ▶ Modular designed steel platform
- ▶ Material handling and drying equipment: big bag handling, crystalliser, dryer
- ▶ Extrusion unit: highly efficient extruders in different sizes, subsequent static melt mixer and hydraulic piston screen changer for high melt quality and homogeneity
- ▶ Electrical heated spinning head with thermal oil for uniform temperature distribution
- ▶ Quenching unit with conditioned air for a stable quenching process with controlled humidity
- ▶ Stretching unit: easy implementation of stretching unit for FDY production, high quality godets up to 250 °C
- ▶ Intermingling unit
- ▶ Fully automatic grooved roll turret winding unit with 8 ends per winder

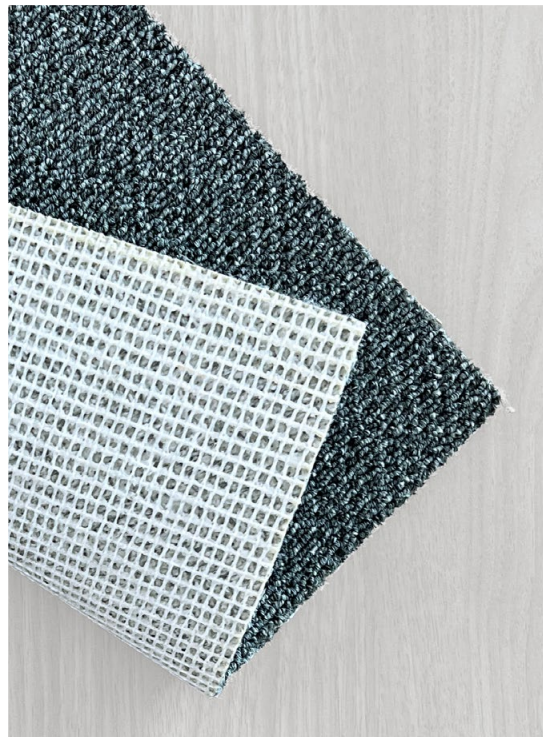


LINE CONFIGURATIONS

	Austrofil® VERTEX PP	Austrofil® VERTEX PP	Austrofil® VERTEX PET	Austrofil® VERTEX PET
Output	160 kg/h	320 kg/h	270 kg/h	540 kg/h
	The actual maximum output depends on the raw materials used and the titre			
Application	FDY/POY			
Total number of ends	24	48	24	48
Extruder	1 x 75/28	2 x 75/28	1 x 75/28	2 x 75/28
Dosing system	Continuous gravimetric loss-in-weight dosing with up to 3 components			
Spinning beam	3 spinning pumps electrically heated, thermal oil for heat transfer	6 spinning pumps electrically heated, thermal oil for heat transfer	3 spinning pumps electrically heated, thermal oil for heat transfer	6 spinning pumps electrically heated, thermal oil for heat transfer
Number of winders	3	6	3	6
Type	Automatic turret winder			
Winding speed	2,000 – 4,000 m/min			
Core diameter	94/110 mm			
Bobbin diameter	420 mm			
Dimensions L x W x H	8 x 11 x 8 m	14 x 11 x 8 m	8 x 11 x 8 m	14 x 11 x 8 m

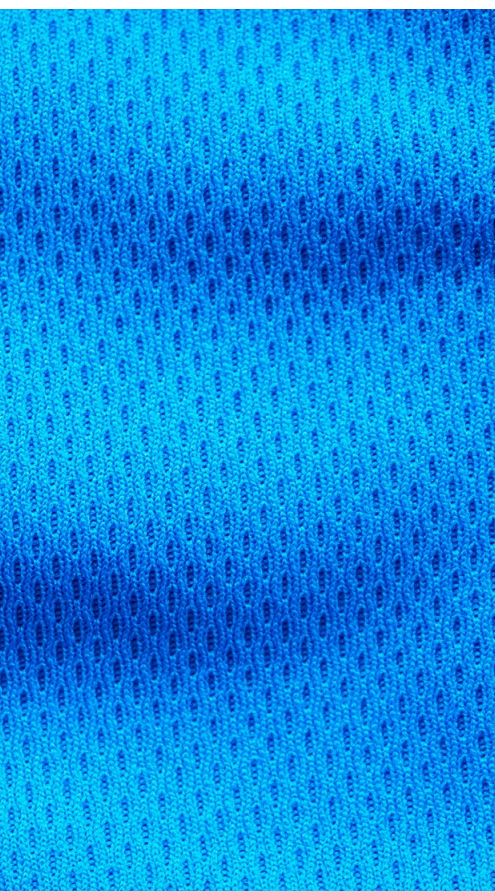
Technical data:

Products	Fully drawn yarn (FDY) Partially oriented yarn (POY)
Polymer	Polypropylene, MFR 10-25 Polyethyleneterephalat IV 0.62 - 0.67 Polyamid RV 3.3
Titre Range	75 – 800 den / 80 - 890 dtex



**The scope of the new VERTEX
multifilament line is extended to PET**

Typical applications are: manufacturing of
air texturised yarns, yarns for carpet piles,
home textiles and upholstery.



► **Take advantage
of our global
leadership in
extrusion
technology.**

**ANALYSES
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