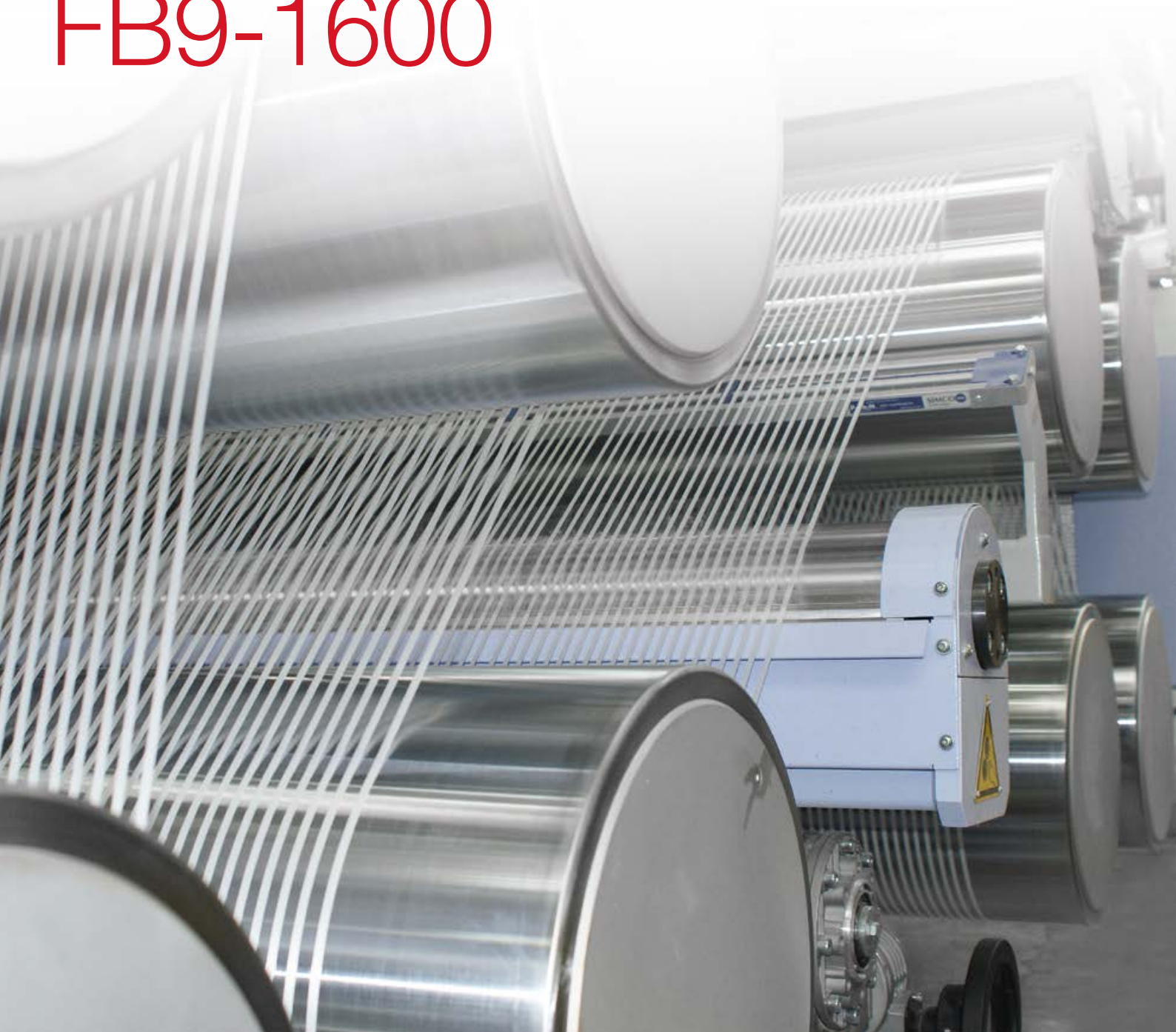


Tape stretching lines

FB9-1000

FB9-1400

FB9-1600



Features

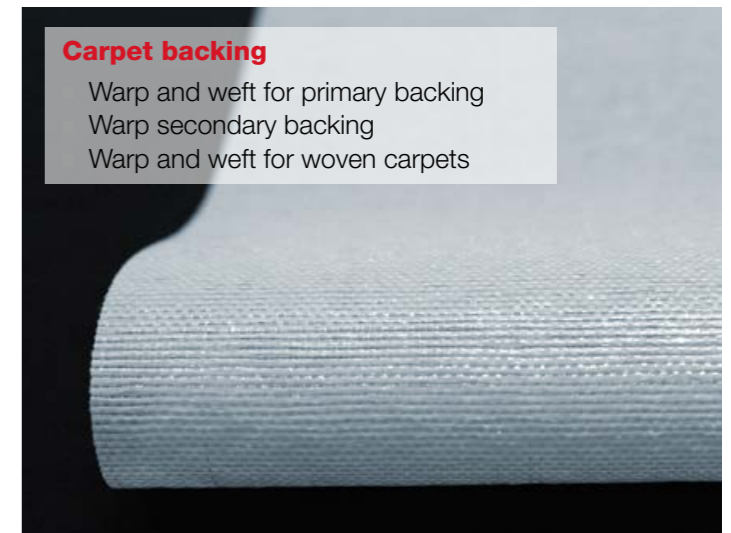
Our extrusion systems convince tape producers with their incomparable features:

- Extruder pump system (pressure controlled extruder)
- Adiabatic, high-speed extruder
- Easy handling using stand-alone components (e.g. thickness monitoring; slitting unit)
- Best temperature distribution in hot air oven and on entire godet surfaces
- Re-feeding of up to 20% flakes
- Perfect color and material mixing
- Various fibrillation units
- Choice of different melt filters
- Film quenching by water bath or chill roll
- Thickness monitoring systems, also in combination with automatic T-die
- Tailor-made screw geometries
- Very effective film drying for high speeds
- Online assistance
- Low degradation of raw materials due to low melt temperatures
- Extremely-low energy consumption (down to 0.4 kW/kg)



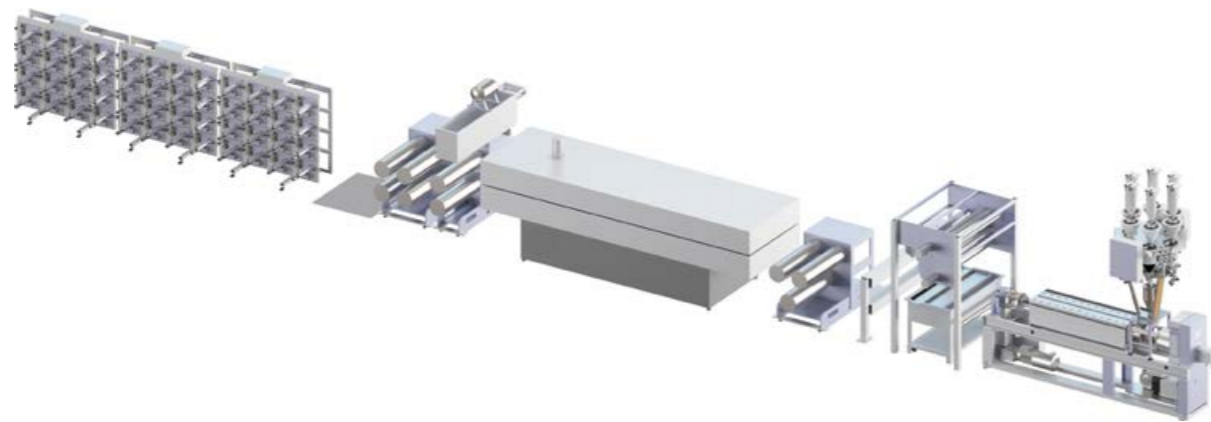
Extruder variants		Working widths
60 mm Ø 27D	(up to 200 kg/h)	1000 mm
75 mm Ø 27D	(up to 350 kg/h)	1400 mm
90 mm Ø 27D	(up to 550 kg/h)	1600 mm
105 mm Ø 27D	(up to 800 kg/h)	
120 mm Ø 33D	(for special applications)	

Products made of tapes



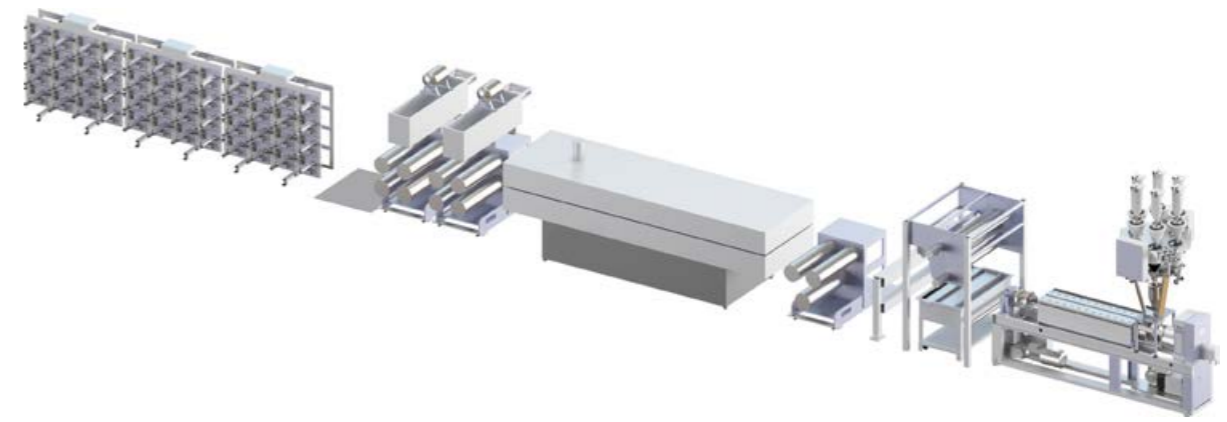


Woven sacks, bags, big bags



Materials	Count range	Characteristics	Special properties
PP	600 to 2100 dtex	High speed at low production costs; perfect properties for high-speed looms; also for flat-woven FIBC (re-usable big bags)	Up to 7 g/den with around 25% elongation; 7 g/den for flat-woven big bags

Agricultural woven fabrics

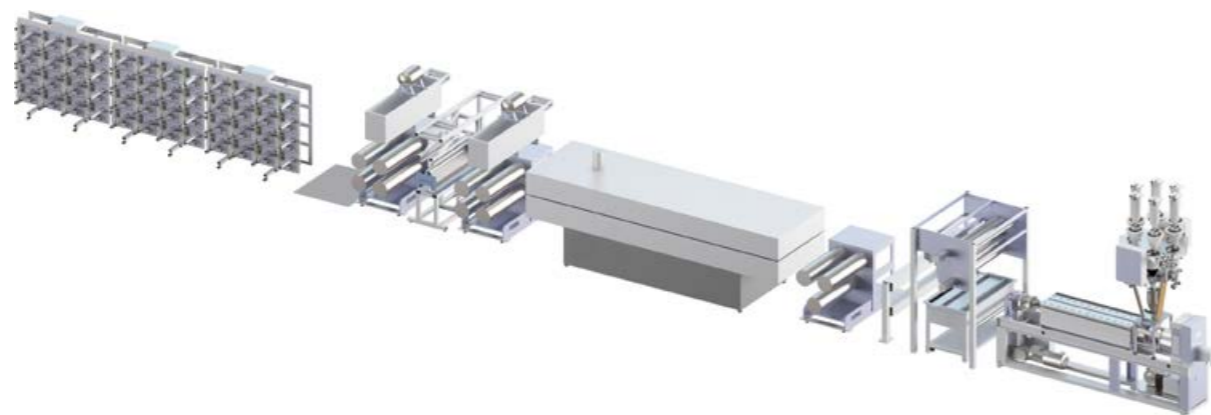


Materials	Count range	Characteristics	Special properties
PP/PE	600 to 2100 dtex	Thin, coloured tapes; thin, coloured tapes; Perfect properties for Raschel machines or flat weaving	Thin HDPE tapes, between 24 to 35 microns various elongations according to request

NEW

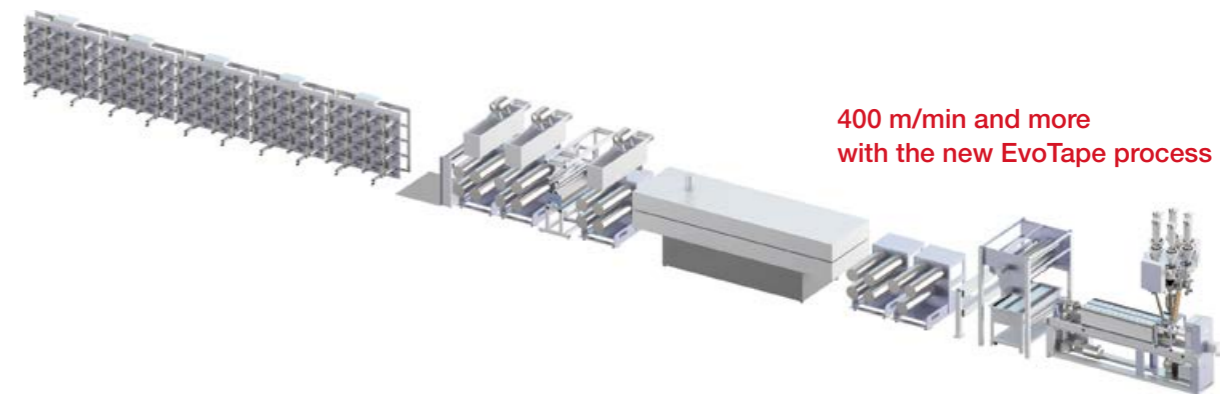


Geotextiles



Materials	Count range	Characteristics	Special properties
PP	600 to 8000 dtex	High speed at low production costs; thin, fibrillated or non-fibrillated	Thin tapes with up to 7.5 g/den; reduced shrinkage; specific elongations for best weaving efficiency

Carpet backing



1. Warp and weft for primary backing

Materials	Count range	Characteristics	Special properties
PP	Warp: 330 - 600 dtex Weft: 850 - 1500 dtex	0.9 - 1.1 mm width 2 - 3 mm width, 36 - 55 µm, partially fibrillated	Thin tapes with, > 3.5 cN/dtex, extremely-low shrinkage

2. Warp and weft for woven carpets

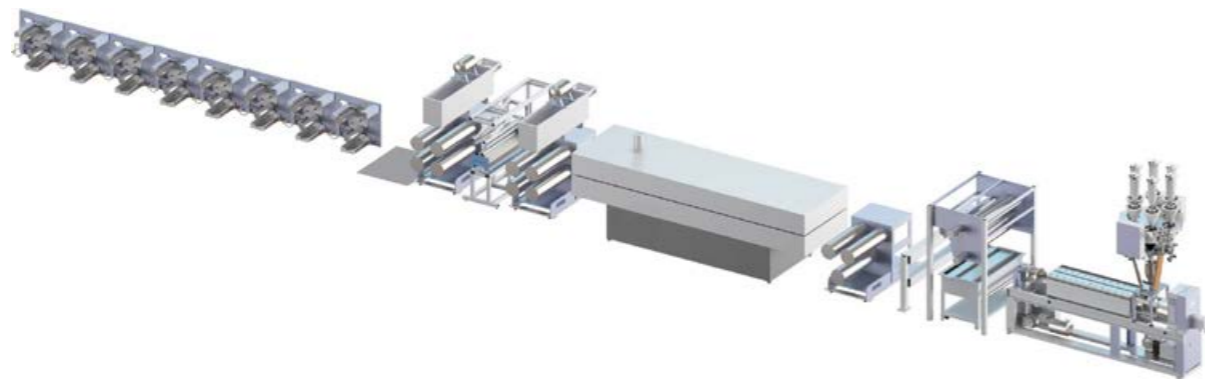
Materials	Count range	Characteristics	Special properties
PP	Warp: 1000 - 1500 dtex Weft: 1500 - 6000 dtex	Jute replacement, twisted (with DD2000) fibrillated	Thin tapes with > 4 cN/dtex, extremely-low shrinkage, extremely-low elongation

3. Secondary backing warp

Materials	Count range	Characteristics	Special properties
PP	Warp: 330 to 600 dtex	0.9 - 1.1mm width 36 - 55 µm, partially fibrillated	Thin tapes with > 3.5 cN/dtex, extremely-low shrinkage



Baler twines



Materials	Count range	Characteristics	Special properties
PP	8,000 to 100,000 dtex (100 to 1250 m/kg)	High speed at low production costs; fibrillated	Tapes with extra-high tenacity, profiled, top knot strength

Further applications

Materials	Count range	Characteristics	Special properties
PP	1,000 - 6,000 dtex	Sewing yarn twisted (with DD2000)	Fibrillated tapes, perfectly twisted and wound on precision bobbins, incl. oil application
PE	800 - 2,000 dtex	Tarpaulins	High-speed process, UV-protected
PP	20,000 - 500,000 dtex	Cable fillers	Fibrillated and twisted, thick tapes
PP	various	Ropes	Fibrillated tapes with high tenacity
PP	various	Jute replacement for coffee bags	Fibrillated tapes with rough surface
PE	1,000 - 4,000 dtex	Artificial grass	Fibrillated with needles or knives, thickness up to 200 micron



Downstream

Winders

The key competence of the ATW / WinOro winder is its easy handling. The serial length measurement system guarantees equal running lengths also with different raw materials. Multi-step precision winding is available optionally.

Types		
ATW-LGT	With 1 or 2 crossing ratios	Traverse: 200, 250, 260, 300mm
ATW-LGTE	With electronic crossing ratio	Traverse: 200, 250, 260, 300mm
WinOro	Automatic doffing winders with electronic crossing ratios	Traverse: 250, 300mm

DD2000/DD2000GT

This highly productive two-for-one twister produces packages with the highest density, due to precision winding. The drives are individual for each spindle. Also available with lubrication unit (oil applicator) for sewing yarns, with multi-step precision winding and tubeless or conical winding.

Types			
DD2000	Up to 8,000 dtex	Up to 10,000 rpm	
DD2000E	Up to 8,000 dtex	Up to 10,000 rpm	With electronic crossing ratio
DD2000GT	Up to 20,000 dtex	Up to 10,000 rpm	
DD2000GTE	Up to 20,000 dtex	Up to 10,000 rpm	With electronic crossing ratio

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