

DynaJet

HIGH SPEED
AIR ENTANGLEMENT WINDER

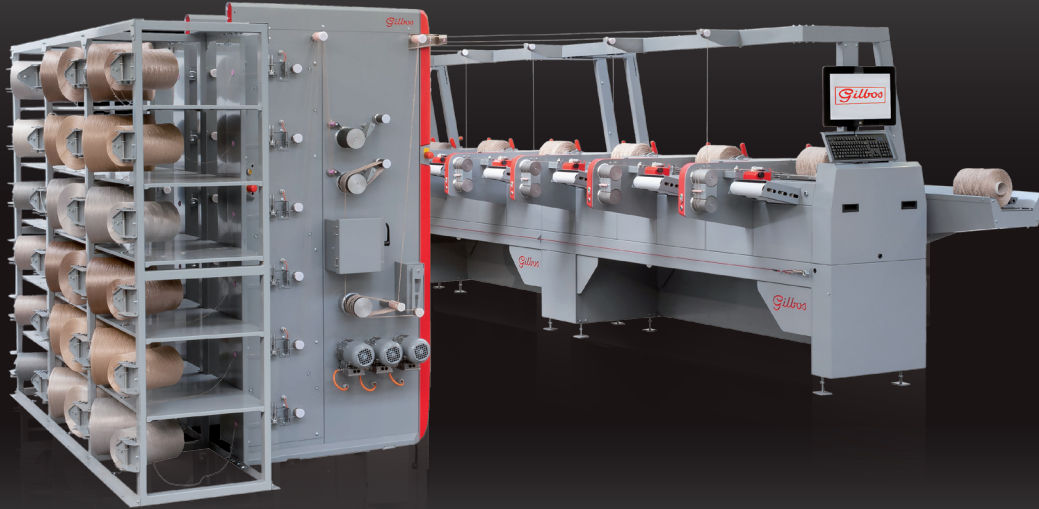


YARN WINDING & PROCESSING MACHINES

Gilbos

DynaJet

HIGH SPEED AIR ENTANGLEMENT WINDER

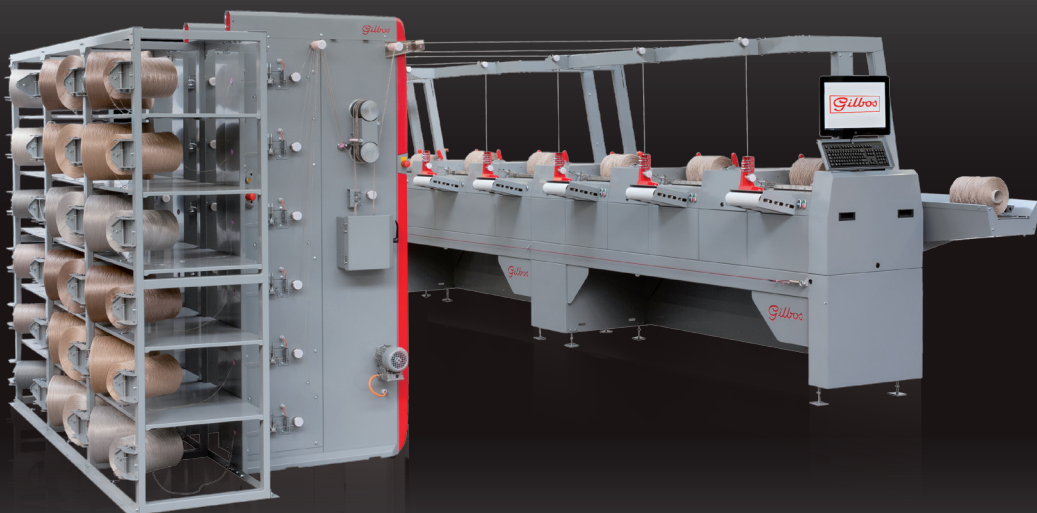


DYNAJET IM - InterMingling

- Entangling BCF and/or CF yarns for medium coarse counts up to 10 000 dTex or 9 000 den.
- 2 separately driven feeder rolls allowing parallel and core-effect entanglement.
- Allowing better color separation of the feeder yarns.
- Modular entangling unit connected to the creel.
- Process speed up to 1000 m/min or 1100 yds/min, depending on process parameters.
- Compressed air pressure between 4 and 10 bar or between 58 and 145 psi.

DYNAJET 50 - Standard Overfeed

- Entangling BCF and/or CF yarns for coarse counts up to 20 000 dTex or 18 000 den.
- Driven double feeder rolls with double yarn guiding: before and after the entangling.
- Modular entangling unit connected to the creel.
- Process speed up to 1000 m/min or 1100 yds/min, depending on process parameters.
- Compressed air pressure between 4 and 10 bar or between 58 and 145 psi.



OPTIONS AND POSSIBLE COMBINATIONS



TC (Tension Control)

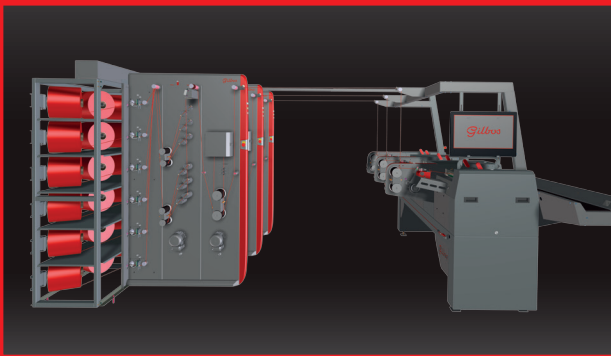


AT (AirTwist)

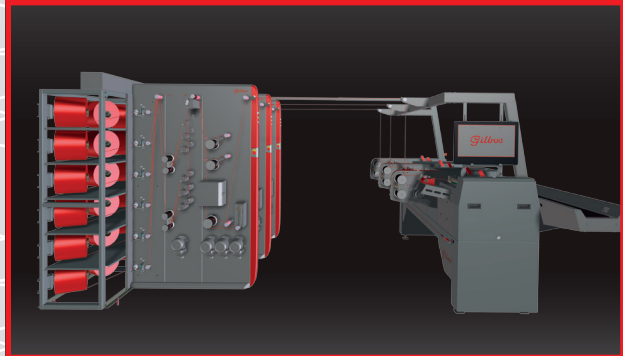
- Overfeed rollers eliminate tension variations per end. ■
- Individually controlled tensioner and ■
- with tension sensor per end. ■
- Available in 2 to 6 ends per spindle. ■
- Modular unit connected to the creel. ■
- Process speed up to 1000 m/min or 1100 yds/min. ■

- Producing alternating S/Z ply-twist on 2 up to 6 BCF ■
- and/or CF yarns for medium coarse counts. ■
- Up to 10 000 dTex or 9 000 den. ■
- Combined AirTwisted / Entangled yarns are possible. ■
- Modular unit connected to the creel. ■
- Process speed up to 600 m/min or 660 yds/min, ■
- depending on parameters. ■
- Compressed air pressure between 4 and 10 bar ■
- or between 58 and 145 psi. ■
- Includes patented TackControl® system. ■

SO + TC



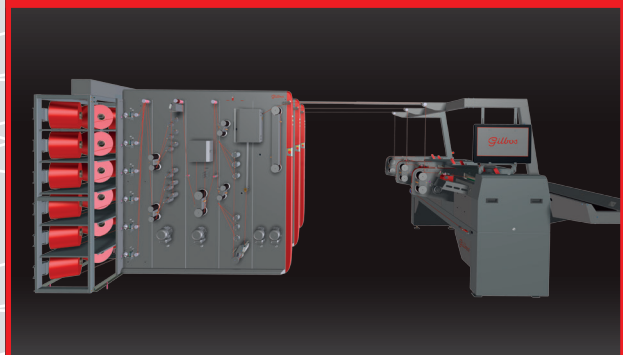
IM + TC



POSSIBLE COMBINATIONS

Type SO	Type IM
SO + AT	IM + AT
SO + TC	IM + TC
SO + AT + TC	IM + AT + TC

SO + AT + TC



DynaJet

TECHNICAL SPECIFICATIONS

Type of winding	random
Winding speed	up to 1000 m/min or 1100 yds/min (speed depending on process parameters)
Package build up	on cylindrical tubes Ø 73 mm x 290 mm with freely programmable winding angle between 13° and 21°
Doffing	standard - 15 s cycle time - 8 tubes in magazine
Traverse length	254 mm
Package diameter	up to 400 mm
Package weight	up to 12 kg or 26.5 lbs depending on the fiber material
Material	BCF, CF or spun - PES, PP, PA, natural fiber
Count range	600 up to 20 000 dTex or 540 up to 18 000 den
Layout	gauge 800 or 1000 mm, 3 spindles per section
N° of spindles	3 - 6 - 9 - 12 spindles
Spindles, guides & feeder rollers	individually driven and controlled by digital inverter
Electrical supply	3 x 400V or 3 x 480V + PE - 50 or 60 Hz
Total connected load	winder: 4 kVA per 3 spindles creel modules: depending on configuration
DynaJet air consumption	0,25 to 3,0 Nm ³ /min/spindle or 8,82 to 106 SCFM (depending upon process parameters and jet)
Compressed air supply	min. 8 bar or min. 116 psi
Compressed air quality	clean, dry and oil free air
Air connection	½ inch + 3 inch
Machine and process control	Hyperion and Orion control system developed by Gilbos

GILBOS winding and processing machines for:

Rewinding
 Rewinding + CMS
 Assembly winding
 AirEntangling
 AirTwisting
 SmarTwisting
 Heatset winding

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