

# KnitWinder

MULTIPURPOSE  
SINGLE END AND ASSEMBLY WINDER

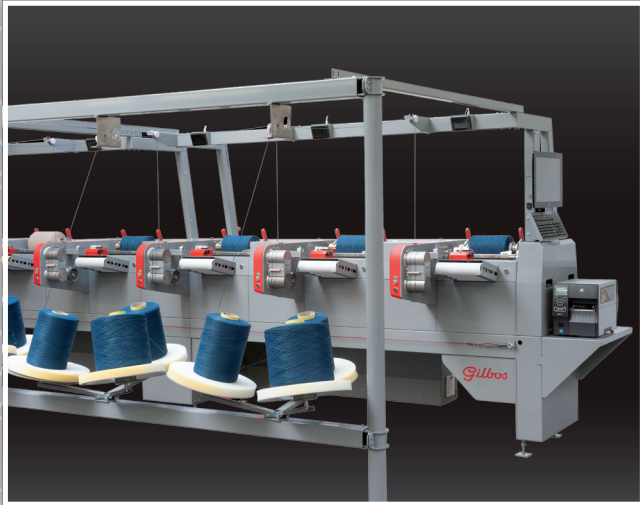


YARN WINDING & PROCESSING MACHINES



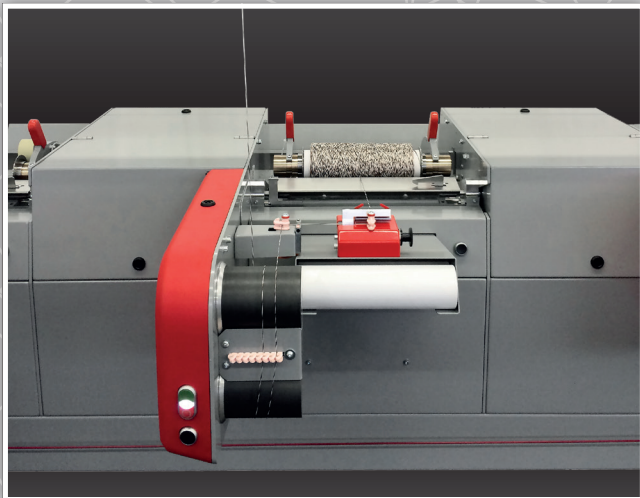
# UniWinder

## AUTOMATIC WINDER FOR SINGLE END AND ASSEMBLY WINDING



### UNIWINDER CMS - Creel Management System

- UniWinder with additional Creel Management System.
- Ability to wind packages for a specific carpet design to a pre-determined length.
- The input data is a csv-file created by any leading Carpet Design Software package, containing the length and yarn type for each position in the creel.
- Optimal use of the winder and operator capacity is obtained.



### UNIWINDER

- Rewinding BCF, CF or spun - PES, PP, PA, natural fiber.
- Driven double feeder rolls per spindle.
- Adapted creel suitable for packages or spinning bobbins.
- Working speeds up to 1000 m/min or 1100 yds/min, depending on the material.
- Standard length measurement +/- 2%



### UNIWINDER D - Doubling

- UniWinder for doubling of 2 up to 12 BCF and/or CF yarns for medium coarse counts up to 10 000 dTex or 9 000 den.
- Brake plate on each spindle to avoid that the broken end is wound on the package.
- Different types of creels available up to 12 ends with reserve packages and broken end detector.
- Winding speed up to 800 m/min or 880 yds/min, depending on material and number of ends.

## OPTIONS

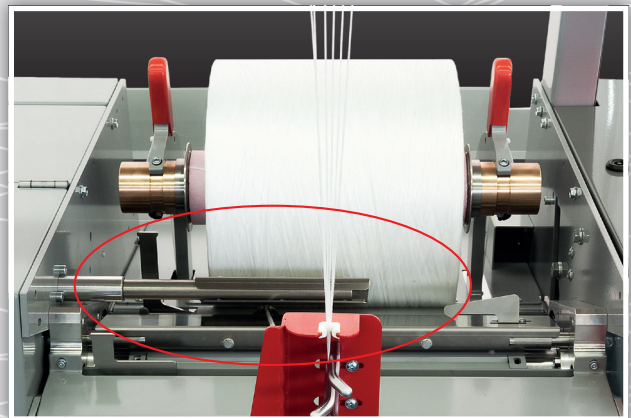


### CONVEYOR BELT

- Conveyor belt at the rear side of the machine
- Photocell to stop/start the conveyor.

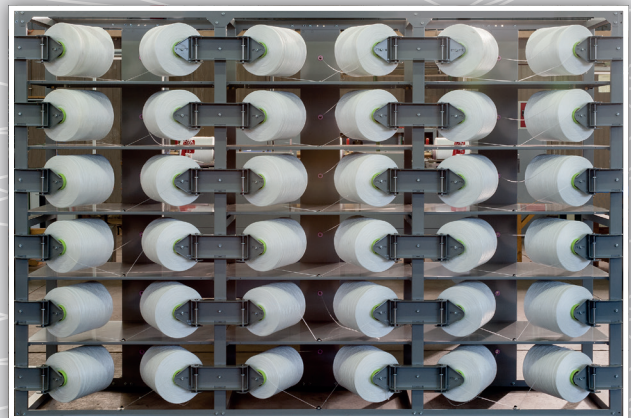
### BRAKE PLATE

- Brake plate and package lift avoid that broken ends are wound on the package.



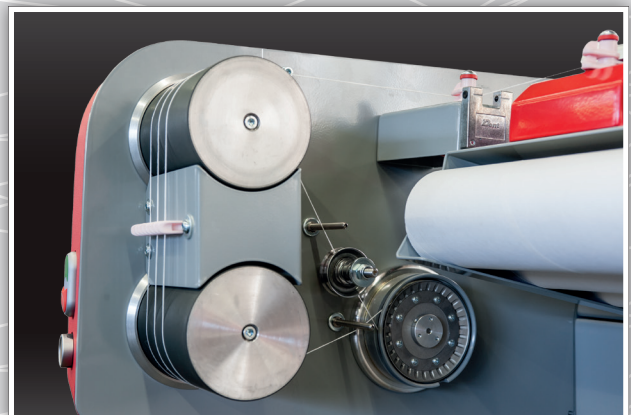
### CREELS UP TO 12 ENDS

- Yarn tensioner and detector per end
- Up to 300 mm diameter
- With reserve package



### ACCURATE LENGTH MEASUREMENT

- Hysteresis wheel with +/- 0,5 % accuracy







## 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	4 kVA per 3 spindles
Compressed air supply	6 bar or min. 87 psi
Air connection	1/2 inch supply
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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Textile Technology