

MC-GF

Gilbos

MC-GF

Fully Automatic Winder of spun yarns from spinning bobbins onto 10" packages, including

Electronic clearing
Automatic air splicing
Automatic doffing of full packages



Gilbos

Winding Unit

Automatic section

- Splicer box
- Tensioner box

Individual driver per spindle

By motor with frequency inverter control.
The machine can be split up into several groups of spindles, through the electronic control system, with different winding parameters in each group.
This allows the simultaneous winding of different yarn counts, and qualities on the same machine.

Parameters per group of spindles

- Winding speed
- Yarn length per package
- Clearer settings
- Splicing parameters by separate control valves



Magazine for yarn supply



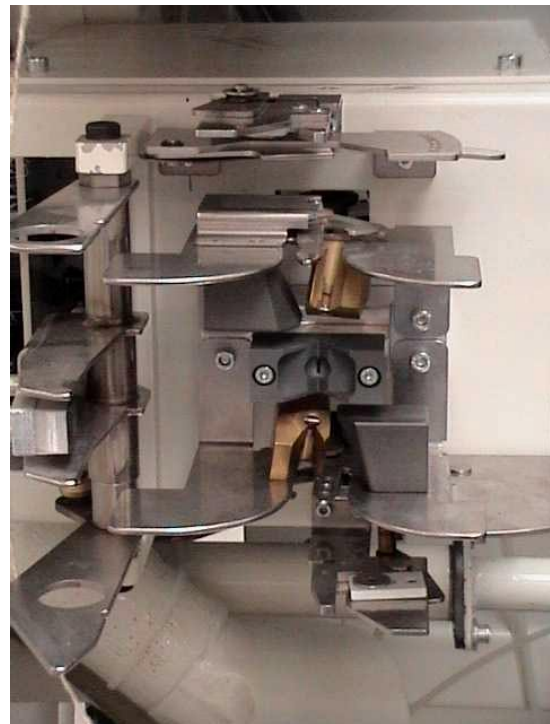
Winding Unit

- For conical or cylindrical winding in 10" traverse.
- Positive Yarn guiding by swivelling arm
- Winding speed, in function of the material, up to 1200 m/min.
- Angle of winding, in function of the material, between 12° and 22°.
- Constant winding speed with very effective anti-ribbing by continually varying the number of cam strokes per minute.
- Length measurement and diameter stop motion are standard features.
- Maximum package diameter 400 mm.
- Random winding is standard. Step-precision winding in option.
- Yarn reserve adjustable in length for tag-ending proposes.



Fully Automatic

- Control over all the yarn pick-up moments.
- All moving parts are located in dust sealed housing.
- Electronic clearer type Loeffe Yarn Master 800.
- Splicer box :
 - With untwisting of the yarn ends
 - Very short splice cycle
 - Quick change of splice chamber
 - Maintenance free



Yarn Tensioner

- Opens automatically for yarn entry.
- All parts in contact with the yarn are protected against wear.
- Mechanical tension setting.
- With electronic yarn detection.
- Special anti-dust air blast at every splice cycle.

Magazine for yarn supply

- For yarn on spinning bobbins or flanged bobbins.
- Standard frame foreseen for tube lengths up to 610 mm (700 mm optional).
- Five position magazine for feed package diameters up to 180 mm, three position magazine for diameter up to 240 mm.
- Unique and very operator friendly yarn suction arrangement into the tube or flange centre.
- Automatic clockwise rotation of the magazine.
- Anti-ballooning plates between the yarn supply packages.
- Direct link system available in option.

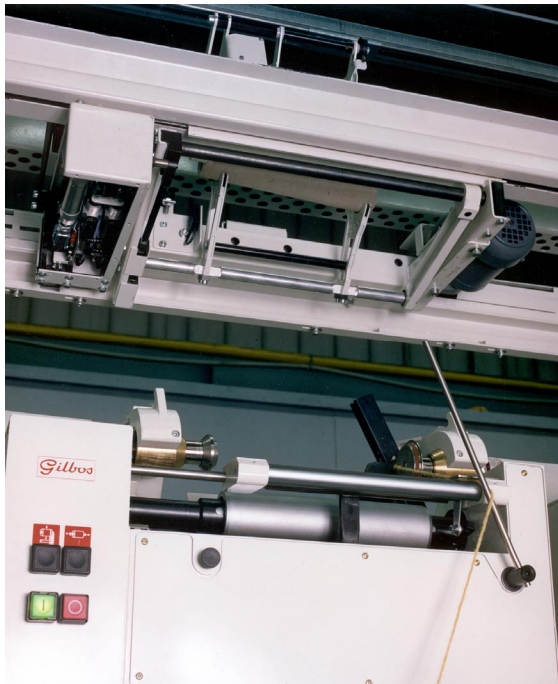
To define the correct winding parameters such as winding speed, angle of winding, splice parameters, clearing ratio's, it is highly recommended to run preliminary trials in the Demonstration Room at the Gilbos Company.



Automatic Doffing of full packages :

The MC-GF is equipped as standard with the Travelling Doffing system ATS. This consist of :

- One or more travelling doffers, each one covering a defined number of spindles.
- Each doffer carries a single tube or cone.
- Whenever a spindle gives a sign for automatic doffing, the doffer will immediately attend this spindle to present the empty tube or cone.
- A new tube or cone is immediately delivered to the doffer, which is then ready for the next doffing cycle.
- Standing time for autodoffing is limited to 25 sec. average.
- All mechanical elements for automatic doffing, with the exception of the presentation of the empty tube or cone, are individualised per spindle.



A central magazine for empty cones or tubes is located at the front side of the machine, with capacity of approximately 100 pieces, depending on the tube of cone or tube. This central magazine eliminates the need for an individual magazine per spindle and requires less operator intervention time.



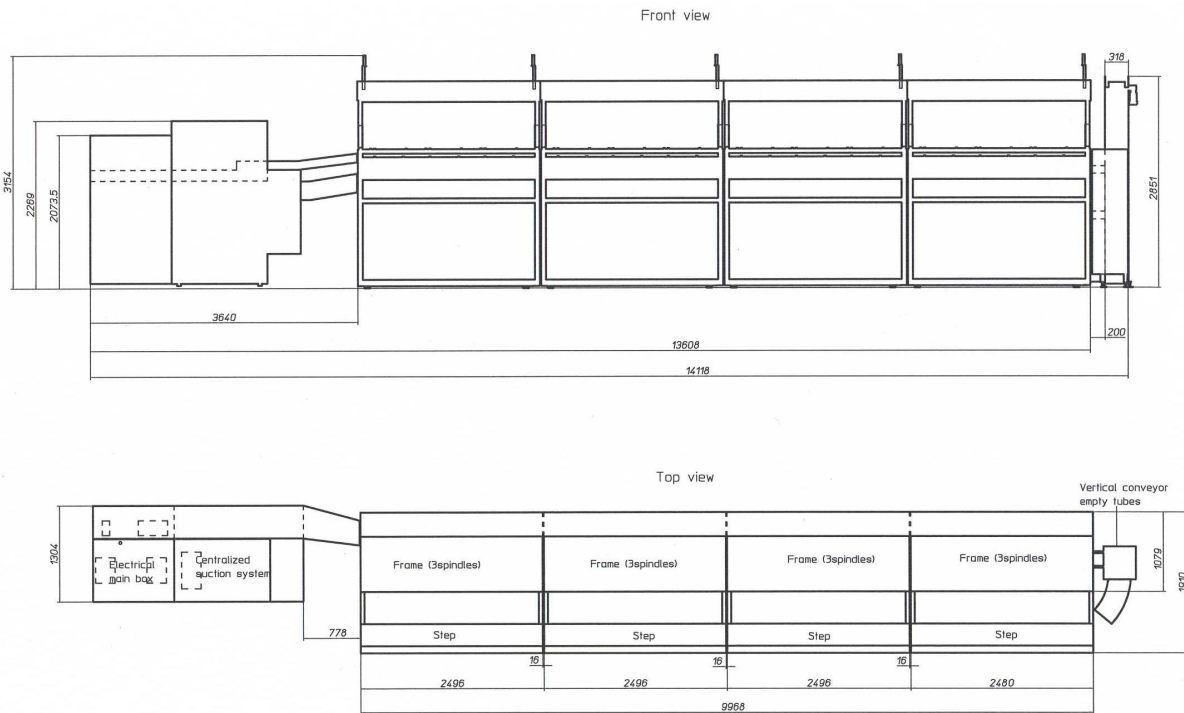
Conveyor Belt for packages :

A conveyor belt at the rear side of the machine is a standard feature. A photocell prevents full packages falling down at the end of the belt.

Technical Data :

Up to 24 spindles per machine, with 3 spindles per section.
 Winding speed up to 1.200 m/min., depending on the winding angle and type of package.
 Angle of winding adjustable between 12 and 22°.
 Maximum package diameter up to 400 mm.

Motor per spindle :	0,75 kW – 1500 rpm
Electric supply :	3 x 400 V + N or 3 x 230 V – 50/60 Hz
	Transformer is needed for other supplies
PLC :	Mitsubishi
Compressed air :	6 bars pressure for machine functions
Air pressure for splicing :	in accordance with the splice parameters
Suction motor :	30 or 37 kW
Conveyor belt motor :	0,18 kW
Travelling doffer motor :	0,15 kW
ATS motor :	0,18 kW
Cone/tube conveyor motor :	0,18 kW
Main colour of machine :	White RAL 9002



All technical details, descriptions, illustrations, dimensions and other particulars in this pamphlet are given in good faith, and can be subject to change without notice

