



RATERA®

Founded in 1942
Braiding Machines



ML – 100 Smart Winder

We were pleased to introduce Ratera's newest winder – the ML-100 Automatic Winder for bobbins 80 mm through 120 mm gauge bobbins at ITMA in Milan. This four (4) spindle machine allows for the production of 80, 100, 104, 115 and 120 gauge bobbins on one machine.

The machine features smart machine control and a linear servo traverse drive to facilitate style changes and maximize bobbin performance.

Flexibility

Changing to a different bobbin size is managed with 10 minutes' work: set the width of the delivery, doffing and transport rails; change a bobbin adaptor; then select the proper recipe from the HMI. All-in-one automatic winding!

Waste

Wasted fiber is a perennial issue with winding to length with conventional Uhing/mechanical traverse controls. The ML-100's linear motor traverse enables the spindles to stop at the pre-set length and the traverse move for doffing without additional winding eliminating uneven run-outs on the braider.

Control

The ML-100's PLC and plain language HMI enable on-the-fly modifications of yarn speed, traverse speed and traverse length settings. The HMI is a touchscreen with intuitive display and easy to understand pictographic keys. Once the settings are settled for a particular fiber and bobbin arrangement then the recipe may be stored in the PLC for easy recall. Recalling a recipe automatically adjusts the machine for running eliminating the need for operators to do anything more than set the tension and start winding.

Operation

The machine is fully automatic for loading and doffing bobbins. There is an option for hot knife or mechanical cutting as well as automatic installation of clips to control lively fibers after cutting. Once the bobbins are completed they doff to the side of the ML-100 where they may be collected or deposited into a box.