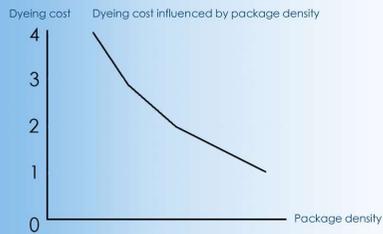


BR AP2 Soft winding machine

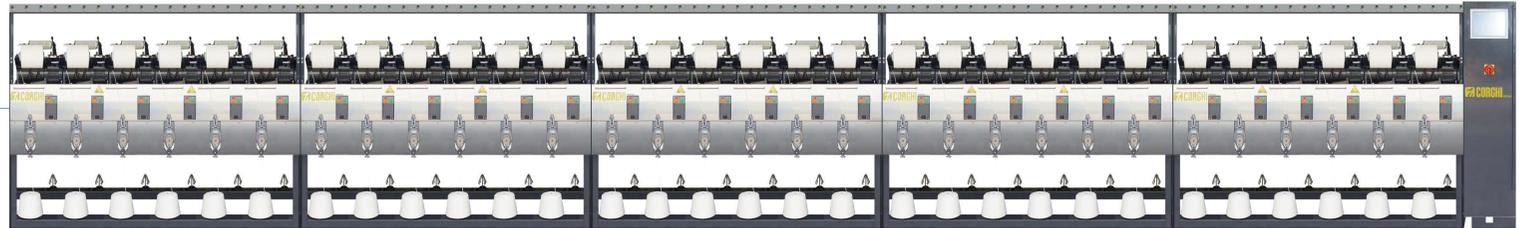
The BR AP 2 soft winding machine is the result of the technological evolution of Corghi's nearly 60 years of experience in the textiles sector. The market's pressing demands for machines with everhigher performance, ensuring return on investments in shorter and shorter times, have led us to revolutionize the traditional technology with mechanical and electronic features typical of high precision automatic winders. All features achieved perfect dyeing package, i.e. Pattern free, high working speed, less piling, uniform density inside to outside of package in high density condition. For dyeing process, means lower liquid ratio, low water wastage, lower energy consume, lower chemicals and dyestuff consume.



Dyeing cost including: water consume, dyestuff and chemicals consume, labour cost and success rate.

	1	2	3	4
package diameter	170	170	170	170
tube diameter	70	70	70	70
height of package	155	155	155	155
package volume	2922	2922	2922	2922
package weight	1000	1200	1300	1380
tube weight	138	138	138	138
package density	0.295	0.364	0.398	0.425
real capacity of 1000 packages dyeing tank	1000	1200	1300	1380

Different capacity for 1000 packages dyeing tank according to package density



Each drum is driven by a 90 watts coaxial AC motor controlled by inverter, assure the mechanical structure simple and reliable.



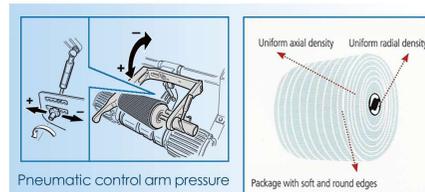
Digital step motor tensioning device.



Increasingly high-precision tube-holder arm, with pneumatic control of the pressure on the package to ensure that the weight is always right as the diameter increases



Tubes secured by means of tailstocks with axial spring to compensate for small or even large differences in tube quality, for constantly uniform winding.



Pneumatic control arm pressure

Package with soft and round edges

Increasingly high-precision tube-holder arm, with pneumatic control of the pressure on the package to ensure that the weight is always right as the diameter increases. Tubes secured by means of tailstocks with axial spring to compensate for small or even large differences in tube quality, for constantly uniform winding. High-precision meter-counter to minimise the percentage error and produce constantly identical, uniform packages for effective, flawless dyeing, as well as the complete elimination of all end cones at the weaving stage. 100%-effective anti-ribboning: with the new "pattern free" technology, Corghi has ruled out absolutely all ribboning, guaranteeing a perfect package at the dyeing level, comparable with those produced on machines with high-precision electronic yarn guides. Since the "pattern free" system successfully prevents all ribboning, the Corghi machine is able to produce high-density cones, thus increasing dyeing capacity with the same diameter. The machine's frame has been designed to make threading as easy as possible; the removal of all potentially damaging angle of deflection from the yarn's route has done away with the peeling effect once and for all. The use of anodised aluminium grooved drums at 2.5 rpm (other models available) is the ideal solution for a high-productivity machine, providing up to 1400 mt/min with soft packages of the very highest quality. Axial motion is an integral part of the system, producing perfect packages with rounded edges with no overlapping turns or differences in density at cone ends. A range of extremely useful accessories are available, including the device for feeding yarn at constant tension to produce packages of the highest quality, capable of providing real-time display of the exact yarn tension, with precision adjustment ensuring constant tension in all working conditions. This takes place regardless of the speed at which the textile machine is working (high or low speed) and the yarn tension is kept constant even when the yarn natural tension tends to vary as the package gradually empty.

INTELLI-WIND® touch The simple way to manage complex winding functions

INTELLI-WIND TOUCH® is a dedicated software especially developed for BR AP 2 soft winding machine, with simplified and automates operations such as yarn count conversion, production parameter transformation from meters to kilos and precise meter counter, using industrial touch panel, all parameters can be set up and displayed for single head or entire machine. The recipe for different yarn count can be set up and computerized, and call up when need in the future.



MAIN FUNCTION

Self-diagnostic at switch on the machine checks the connected modules and shows anomalies on the touch panel

Language settings, can be set up any main languages

Speed settings: via touch panel

Automatic yarn count conversion: real yarn count is entered for output calculation

Automatic calculation of the length percentage correction for the individual head or the machine

Setting of output in meters/kilograms or yards/pounds

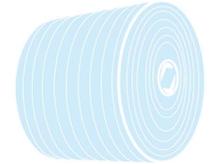
Real time display of metros wound and output completed

Calculation of real and theoretical efficiency by lot and by shift

Formula data storage for the individual head of the machine: all the machine's settings can be stored and reused as required



BR AP2 Soft winding machine

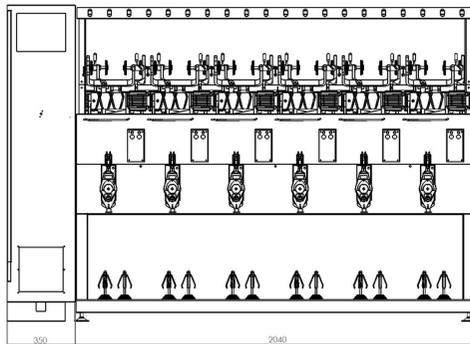
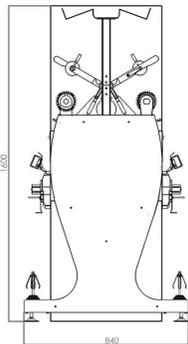


BR

AP2 Soft winding machine

6 inch winding traverse (152mm)	Single side 6 heads per section 60 heads per machine Double side 12 heads per section 60 heads per machine
8 inch winding traverse (200mm)	Single side 5 heads per section 50 heads per machine Double side 10 heads per section 50 heads per machine
10 inch winding traverse (250mm)	Single side 4 heads per section 40 heads per machine Double side 8 heads per section 40 heads per machine
Power supply voltage	3 Phases 400v 50/60 Hz
Motor drive	1 AC coaxial motor per head
Absorption	0.115 KW per motor and overfeeder
Crossover angle	14° Standard
Grooved drum	Diameter 82mm 2.5 pitches
Winding	Cylindrical
Anti ribboning	Particular "Pattern Free" system
Cone size	Max. Diameter 290 mm
Yarn tension sensor	1 unit per head
Positive Yarn Feed	1 unit per head
Yarn tensioner	1 unit per head
Broken yarn sensor	1 optical sensor per head
Arm counterweight	Adjustable compression gas spring
Speed setting	Electronic via keyboard and digital display
Speed	300 to 1400 m/min continuous adjustable

Suitable to soft winding before package dyeing



over 50 years of winding experience,
designed and engineered in Italy



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