

Officina Meccanica BETA SpA

BETA was born in 1959 and is specialized in high quality padders (foulards) and calenders; more than 1500 machines were sold in more than forty years all around the world.

All machines are equipped with patented Beta rolls whose particular internal layout (it is a very simple mechanical system with an internal axle) allows to reach great working pressures (linear pressure up to 100N/mm for padders and 300N/mm for calenders) with no deflection along whole roll working surface: all Beta rolls are parallel ground and this gives them a perfect uniformity of treatment.

In fact, with same pressure load and external dimensions, Beta roll has a negligible residual deflection which amounts to 80 times lower than a conventional crown roll having a bigger central diameter with respect to rolls' ends.

Crown rolls used by our competitors have a great deficiency: they compensate deflection only at a given design pressure load but if customer needs to change the working pressure to comply with different fabrics' requirements, the final quality drastically drops.

Beta roll has not a single working pressure as for the crown roll because, thanks to its design, it can work at all pressure values from zero to the maximum with the same great efficiency: in conclusion, no deflection is present on Beta rolls whatever is the working pressure and they can work at higher pressure load thus assuring to the user great versatility and usage flexibility which allow to obtain high quality products for all possible working conditions and types of fabrics.

The Beta patented roll for calenders is more complex than the padder Beta roll because has a much higher precision in the control of residual deflection of the working surface: high quality calender in fact need an absolute uniformity of the pressure distribution.

Beta calender roll has also special internal solution to guarantee a perfectly even temperature distribution along the whole working surface.

Our production includes foulards for squeezing, impregnation, dyeing which are especially tailored for each fabric type (cotton, knitted, wool, elastic, and so on). These machines are available in different versions: 2-rolls for dyeing, 3-rolls for high squeezing, 3-rolls differentiated for double impregnation and impregnation on wet fabrics, twin foulard for fabric particularly hard to work with. Machine are equipped with all the last developments (load cells, laser synchronization, double scroll roll with inverter, ...) to give to the customer the best efficiency with all fabrics.

Also Beta calenders are designed on the customer requirements and are equipped with steel rolls and/or rolls with a nylon sleeve to give different finishing treatments. Steel rolls can be heated and also quick-release engraved rolls are available. We make calenders for woven and for non-woven lines and these machine can be provided with all devices needed for a good and safe production: metal detector, seam detector, antistatic, spacer devices for keeping rolls at a given distance, batcher with inverter and load cells, and so on.

All Beta machine are produced in safety category 4, the maximum available, and comply with all European directives about safety of machinery.

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