



New Italian finishing equipment from Gemata

Roller coating takes a fresh approach and reciprocating spraying system functions have been newly developed by Gemata.



Rear view of the Deepcolor showing the two cylinder arrangement.

Simultaneous dyeing of both sides of leathers, particularly during rollcoating so far had not been explored. Now Gemata, after extensive research into the possibility of finding a reliable method to achieve both grain and flesh sides of leather dyeing, has developed what is basically a rollcoating dyeing machine. One of the advantages perceived in this way compared with employing traditional dyeing drums, apart from effective uniformity of dyeing, is a considerable reduction of the required chemical products. Further the new method reduces the time of the process and as limited batches may be processed quickly and precisely to specific requirements.

A sophisticated 1800mm wide rollcoater named by Gemata Deepcolor employs two engraved rollers which work simultaneously. An upper steel one to dye the flesh side of the leather and a lower rubber one to dye the grain side. Feeding of the leathers takes place by means of two conveyors resulting in optimum spreading. Two devices are fitted to automatically detach the leathers, one at the exit of the upper one and the other at the exit of the lower one. The take-off conveyor is motor driven. Feed speed is variable up to 10m per minute, controlled electronically. The machine settings are managed from a panel through a guidance menu showing digital display of working parameters.

An entirely fresh approach to linear finish spraying has come about after research and much work in Gemata's laboratories. Original reciprocating spraying machines, as well as the rotary type, are in general use but both can have drawbacks mainly in the even distribution of the applied coats. The newly developed spraying machine—named Spraystorm—is based upon its low translation speed when compared with the best of rotary machines achieving high spraying output with reduced

dispersion of the applied product, its principal advantage as the result of its design.

Constructional elements of the Spraystorm include the number and mountings of spray guns; there are eight gun holding arms in a smaller model and twelve on machines 3000mm to 3800mm wide. The setting and cleaning of guns is carried out by aligning these directly in front of an operator at the side of the cabin which are all accessible when the double



Front view of the Spraystorm reciprocating spraying machine. It also shows the side of the sprayer with the double doors shut.



Accessible array of spray guns and arms holding guns.

doors are opened. Each gun carrying unit is motorised independently and has a speed variation device. Bearing in mind emission control, an appropriate water-jet scrubber is fitted for the exhausting of fumes. Readers will be interested in a change of the leather conveyor construction. Instead of the conventional nylon strings used to enter and transport the leathers, an arrangement adopted sometimes in the United States, is the use

of the net type plastic conveyor band. No more continuous cleaning of strings. When the net conveyor is loaded with colour it is simply pulled out and a new one is fitted.

Attention is also drawn to a new automatic system available to be fitted to the type of splitting machine manufactured by Gemata. The image below shows a feeding and spreading belt mounted on swing arms in the non working position above the machine. A hydraulic drive swings the belt to the feed position when required. Normal operator guide to feed, spread and entering the leather is eliminated as the belt takes over this task. ☺



CHEMTAN® R-97New

Tel: (603) 772-3741
www.CHEMTAN.com • info@CHEMTAN.com