

# Focus upon intelligent milling drums

*Trissino in Italian Vicenza province is home to Revomec Srl, a newly established engineering business now concentrating on designing and manufacturing a family of milling drums.*



*General view of the Dharma Lab milling drum.*

As well as acting as a base for the development of full size modern milling and finishing drums, Revomec has produced a laboratory drum specifically for the production of small batches of high quality leathers. Conscious that milling effectiveness in the main is a factor of mechanical action and relative friction, as well as the amount of leathers loaded in a given size of drum, the company has put a 150kg – 200kg capacity milling and finishing drum on the market named the Dharma 1.8. To counteract the negative factors in this lab model type, proportionally more mechanical action is necessary than full size milling and finishing drums can normally create. The number of revolutions per minute is also important as rolling up or twisting the leather is to be avoided. They should be raised to a certain height by means of the shelves and dropped to achieve the necessary tumbling effect.

The Dharma design has solved the problems at its root—it provides a perforated stainless steel basket which holds the leathers and a powerful blower which produces vigorously recirculated air in a top-to-bottom movement a depression created underneath causes the leathers to fall sharply generating the required friction. A number of patented drum management elements with the Dharma include a programmable cleaning system by water jets, pneumatic flap valves for damp air exhaust along with air assisted atomising nozzles for humidification and chemical addition. Temperature and humidity are precisely controlled.

Full size Removec milling and finishing drums are also built in 2.5m x 1.5m and 3m x 2m dimensions. Operational and control systems provide operators with a graphic interface. Touch screen display provides personnel with continuous immediate information on the state of progress. Working processes are readily programmable and progress is editable and easily followed. The SSD memory visualises and reviews previously performed processes where required. When chemical addition is practised a dosing unit tank can be fitted. Supply pressure can be regulated as required. An analogue level gauge is available to detect liquid flow across the injection cycle in real time. ☺



*Loading port showing the atomising nozzles.*



*Perforated stainless steel basket holding the leathers.*