

SCM SANDING: the upgraded Dmc Eurosystem, the innovative solution of the Finesand orbitating pad, the new Dmc sd 70 and Dmc mb 90

The sanding technologies will present many new developments at Ligna 2017. Starting from the **Dmc Eurosystem** which has been upgraded compared to the previous Eurosand L model, with the choice of fitting high range sanding and thickening technologies on machines which require less demanding investments. The new solution is fitted with a **crossways unit** that can be positioned at the infeed, to pre-sand the unfinished piece, or at the outfeed for precision finishing. The resulting machine is extremely flexible, completely modular and it can house the units required by the user. All the modularity, all the technology and all the possibilities of top of the range machines are made available to a wider public, bringing extremely efficient technology to less mature markets.

The **Finesand orbitating pad** is the **innovative solution for the precision finishing of cross grained products and composite materials**. The machining unit uses a sanding pad with a very large contact area, that operates on the panel with an orderly movement, resulting from the combination of two rotations that eliminate crossways scratches, rendering the abrasion homogenous across the whole sanding area. Moreover the combination of the action of the Finesand unit with the action of the units on the Dmc System, in particular with the Planetario unit, ensures the best finishing results on an industrial scale.

Another new development can be found in the **Dmc sd 70 automatic wide belt sander**, the new compact machine designed for industrial uses, with 2620 mm long belts, a useful working width of 1350 mm and larger rollers. It can be fitted with 2/3 machining units and allows for excellent levels of diversified finishes.

The **new Dmc mb 90** is a machine that features technologies usually found on machines higher up in the range. It is fitted with units that brush and chamfer copied MDF or wood doors, that can operate either when machining unfinished pieces or after the basecoat has been applied. The Dmc mb 90 uses flexible abrasive tools, that are more or less aggressive based on the machining speed and the grit. The brushes are longitudinal and are very easy to remove for replacement or maintenance. Two different tools can be fitted on the same brush and by simply changing the rotation direction, different machining operations can be achieved.

THE EXCLUSIVITY OF FINISHES THANKS TO THE CARVING UNIT

In order to compete in today's market it is essential to provide one's clients with products that have superior specifications enabling them to manufacture exclusive products. In the furniture sector, quality and aesthetic components require a strategic position to achieve success. DMC has, since its beginning, focused on this target with a continuous research and development aimed to improve products quality for the System range of flexible sanders and it has created a series of **technology innovations**, unique to the industry, enabling customers to produce high quality textures and surface finishes. Recent technologies aimed at texturing solid wood and related materials are some examples of development and research: these new technologies allow users to achieve finishes found in artisan products that will enhance the raw nature of wood by introducing surface textures such as Band Saw Cutting Effect, Worm-Hole Effect and the Carving Effect, longitudinal and transversal Waves Effect, as well as the widest variety of distressing and brushing effects.

The carving unit is **the super advanced technology developed by DMC** (patent requested), a multifunctional solution creating the look of a truly carved surface on solid wood, veneer and MDF, this technology can be applied to many application sectors such as parquet flooring, home furniture and internal wall manufacturing.

Creative ideas for drawing paths and trajectories that follow and overlap each other either uniformly or totally at random, are easily transferred by the user to the product to be processed thanks to the highly flexible working unit. This grants almost the same flexibility as a CNC working center but with lower price and higher productivity.

The innovative carving unit, allows the reproduction on an industrial scale of the artisan finishing effects obtained with a hand scraping tool. This highly in-demand finish emulates manual woodworking processes and provides an authentic and valuable characteristic to wooden furniture.

The system of vertical and transversal tool movements allows users to freely reproduce **unlimited carving effects** that differ in depth, direction and shape of the pattern grooves. Any effect can easily be achieved due to the translation system which is controlled by brushless servomotors, that guarantee fast and precise movements, and the Hydra-PC control that allows for simple and intuitive programming of the machining unit.

For the finishing of cabinet doors or MDF internal walls, the machine is programmed with synchronized movements of the various operating units which grants the reproduction of repetitive trajectories. In this way, real drawings can be realized even with the 3D effect that is much appreciated by the market.

Inside a single machine, the carving units can be paired with abrasive brushes units. It is possible to realize configurations that, in just one step, allows the creation of 3D surfaces, followed by sanding, making the panel ready for painting, laminating, papering or veneering.

The **complete modularity of the System range** allows end users to freely combine machining units to achieve the most varied effects and to replace them **quickly** and **economically** to adapt **the machine composition to market requirements**.

The innovative range of DMC "System" sanders has been designed and constructed as a veritable **"technological container"** capable of housing up to 10 machining units in a single machine, resulting in an extremely advanced solution that can meet even the most complex surface effect requirements.

ACTION TF

the through-feed electro mechanical cabinet clamp **rapid and precise furniture assembly**

- **EFFICIENT SQUARING OF CABINETS**

by means of an integrated **rack and pinion system**.

- **BEST PERFORMANCE,**

due to installed **brushless motors** which allow the cycle's **maximum speed execution**.

- **VERSATILE USE**

due to touch screen panel control.

The through-feed electro mechanical cabinet clamp model ACTION TF is the solution for the assembly of cabinets. This machine is suitable for all cabinet manufacturers, with medium to high production volumes (from 30 to 650 cabinets/shift).