

## SCM SURFACE TECHNOLOGIES: EXCLUSIVE TURNKEY FINISHING

SCM stands out as a **unique partner** for the entire surfaces processing/treatment with **all-round products and services**.

The presence in the Group of the very wide range of SUPERFICI technologies ensures the supply of integrated painting lines of all kinds, for **exclusive and sophisticated finishing solutions**, which are able to meet all process requirements and finished product type.

This clearly emerged during the SCM LIVE SHOW event, broadcast live worldwide streaming from 30 June to 2 July, which saw two integrated process solutions for the Surface Technologies sector and in particular with regard to finishing.

### 1. FLEXIBLE FINISHING CELL

It is an extremely combination of versatile technologies for **sanding and painting**, capable to generate various finishing effects. The solution is addressed to small and medium sized companies with moderate production volumes, strongly oriented towards high quality and exclusivity of finishing to satisfy the expectations of the most demanding customers.

The cell combines the uses of the automatic wide belt sander “**dmc eurosystem**” and spraying “**Superfici mini reflex**” to meet these requirements perfectly.

They give a contribution in terms of **consistent productivity and high quality**, as well as repeatability of finishes over time. Thanks to the technological features, the flexibility and operational versatility, that usually characterizes the manual processes, are maintained.

There are different samples that can be easily obtained. Different level of **structuring effects on veneer or solid wood** alternatively a close pore effect, otherwise matt or glossy lacquer finishing on mdf panels can be achieved.

The easy set-up of the machines allow the fast pass from an operation to another or a batch to the next batch.

The single sander can be used for calibrating operations for surface preparation, the raw and base coat sanding, creation of close pore finishing or structuring effects.

As well as the single spraying machine can apply primer, base coat and top coat products. The sprayer is also equipped with an innovative system for the back and forth of the workpieces that allows the use by a single operator to minimize the use of manpower in case of small batches.

Therefore, the entire finishing cycle will be managed with two machines by multipassing through to create a compact finishing area in the factory.

**As an option, the solutions can be connected together in line**, in combination with cabin drying systems with trolleys to create a turnkey finishing area. It is also possible to provide automatic loading and unloading systems to increase the production efficiency of the cell.

I will now pass the microphone to my colleagues who will show you the machines and some of the mentioned operations. Thank you for your attention.

### The SCM and Superfici machines in the detail

At the SCM LIVE SHOW event it was possible to appreciate the versatility of the finishing effects achieved with the “**dmc eurosystem**” sanding machine, with two new additions: **a completely**

**new planetary unit**, ideal for structuring, chamfering, sanding the cross grain and precision finishing of any surface, and the interchangeable brushes unit, ideal for those in search of maximum production flexibility.

The spraying application phase is performed by the new **“Superfici mini reflex”**. It enables **single operator functionality**, to minimize labor when producing small batches. The loading and unloading on the same side of the machine at the infeed area can also be managed by automatic systems, thus ensuring the working autonomy of the cell without operators for the workpiece handling. In case of larger batches or higher capacity needs, **the machine can still be used in standard mode** with an operator at the infeed and an operator at the outfeed. A real flexible finishing cell, whose use can be easily adapted to the everyday variable production needs.

## 2. 3D SURFACES AND SUPER MATT FINISHING.

The recent technologies developed for the **preparation and treatment of surfaces**, allow to obtain surfaces with increased aesthetic and mechanical performance.

In recent years, in the context of surface preparation, innovative working units have been developed, that have converted the concept of the **“dmc”** sanding machine into a modular flexible abrasive centre. With technologies that make possible the creation of 3D finishing effects such as patterns, hand scraping, wood structuring, saw cut and woodworm, to give to the products original surface effects.

Today a further contribution is provided by **“Superfici excimatt”**, the new excimer UV lamps dryers able to produce an ultra-matt finishing on both flat and 3D panels, which emphasize the previous processes and give to the surface a soft-touch and smooth effect.

The benefits provided by this new technology not only affect the degree of mattness of the finish, which is lower than 5 glosses, but also the increased mechanical performance. In fact, thanks to the special ability to micro-texture the most external layer of paint, you get a surface with a very high degree of hardness and scratch resistance and an exclusive surface anti-fingerprint effect.

### The machines in the detail

SCM offers highly innovative solutions like the **“dmc system”** sanding machines, that transform the concept of the sanding machine in a flexible abrasive modular centre. The unique three-dimensional processing effects on the workpiece surface are enhanced by one of the most innovative finishing processes. Thanks to the newest UV treatment systems, the spraying application with **“Superfici magnum”** gives an extraordinary soft touch and an extremely low gloss surface, highly appreciated by the latest design trends. In this case, the **Superfici Excimatt** uses **excimer technology** in the finishing of furniture panels and perfectly combines with the wide range of the Superfici UV solutions.

Interesting are also the roller applications of **“Valtorta F1”** integrated with **“Superfici excimatt”**. The application range is very wide and it finds interesting uses on the most varied materials.

## 3. 3D LAMINATING

A surface treatment widely adopted by many door manufacturers and constantly growing, thanks to the continuous technological development of machineries, laminating materials and adhesive glues that allow the final products to reach considerable aesthetic and performance targets.

Another important advantage offered by this process, beyond the possibility of laminating the 3D panels, is having a **laminated product** not only on the main surface but also on the edges, without having discontinuity of graphics and colors, and presence of joining lines of edges, which allows to give to the final object a full and solid appearance.

The result of a 3d lamination is a combination of operations to be carried out with particular care and attention, in which technology and working parameters play a key role. From the quality in which surfaces are prepared through the sanding operation, through the correct application of the

glue in quantity and sequence, to the correct pressure and temperature in which the press cycle is carried out

This is why the interactions between technologies and the knowledge of what comes before and after each operation become very important.

**SCM is able to take care of every stage of processing by providing the most suitable technological solutions for every requirement, with stand-alone machines or full integrated laminating lines.**

**The machines in the detail.**

In this case, the process involves sanding, with the innovative units for gouging and brushing in the “**dmc system**” range, the “**Superfici bravorobot glue**” for glue application, the efficient cartesian robots equipped with **3D scanning** to achieve the selective spraying of edges and millings.

The process concludes with the “**sergiani 3d form hp**” press, a solution with high productivity levels and flexibility thanks to the "Flexy Pin" system and the configuration of the press up to three trays, that compact the cycle time into pressing time only. High definition of the end product even with the most complex 3d surfaces.