

magnum
automatic spraying machine

finishing systems



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OUR TECHNOLOGY BEHIND YOUR IDEAS
Magnum. High performance spraying machine.





- **HIGH FEED SPEEDS**
with synchronized functions.
- **HIGH QUALITY FINISHING RESULTS**
thanks to the optimal fluid management system for all finishing materials. Full flexibility with multiple full flow fluid circuits and patented independent reciprocators.
- **QUICK CHANGE OF MATERIALS**
with multiple lacquer recovery units and integrated color change software.
- **SPRAY CABIN KEPT TO OPTIMAL SPRAY CONDITION**
with automatic capture filter replenishment by including the option of "filter on demand". This minimizes end of day clean up and eliminates stoppages for filter change.



EXTENDED DISTANCE BETWEEN RECIPROCATOR ARMS AND ADJUSTABLE SPRAY OFFSET

Independent drives to each arm allowing variable spray offset.

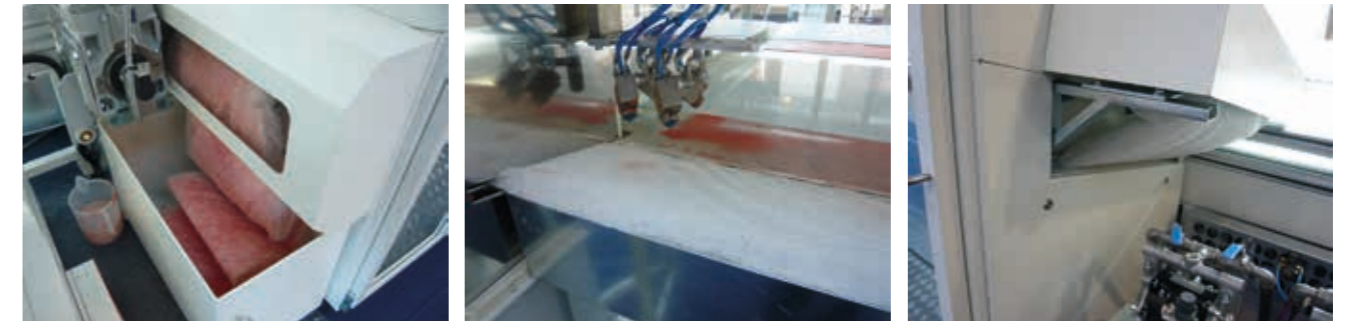
With the extended distance between reciprocator arms the benefits are:

Opportunity to allow material flow out between reciprocators.

Isolation of overspray so each gun set is not causing disturbance to the next application of finish from second reciprocator

More controlled application of difficult materials like W based , High gloss and metallic finishes

All points result in controlled superior finishing which is repeatable every time by saving set up within recipes and filed in the system for future use.



AIR FILTRATION SYSTEMS - DRY - WET BED WITH AUTOMATIC FILTRATION

DRY - Standard dry down draft system using pleated cardboard filter.

DRY / FILTER ON DEMAND. A system used which automatically indexes the advancement of the filter to match a preset work counter. Alternatively the operator can manually advance the filter. Automatic advancement ensures a constant spraying environment ensuring consistent spraying conditions, therefore reliable high quality results.

WET SYSTEM - Wet system is recommended for very high quality when using materials which generate "dusty" overspray which may fall back on the workpiece. The system has a wet filter separating solids from the water and returning clean water to the machine.



MULTIPLE MATERIAL RECLAIM UNITS

The possibility of installing multiple reclaim units allows each to be dedicated to specific materials. This allows instant material change without stopping the line to clean the system ready to reclaim the next material.



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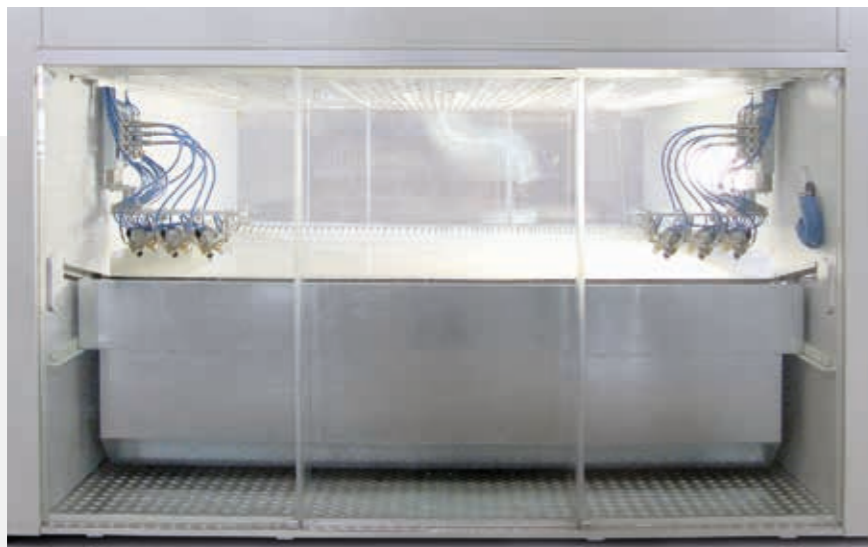
large cabin with full two sided easy access



Flexibility in the spray cabin size to be selected according to the type of finishing required and the feed speed of the line. Easy and wide access to the cabin on both sides with full height doors for easy cleaning and maintenance operations.



Spray area is supplied with input air from a wide and specially engineered filter roof across the entire spray cabin. It's special design ensures perfectly even air distribution across the full working area. Cabin walls are all fabricated with Stainless steel facings for easy clean up.



Glass doors and interior lighting provides excellent visibility of the finish as it is being applied to the substrate.



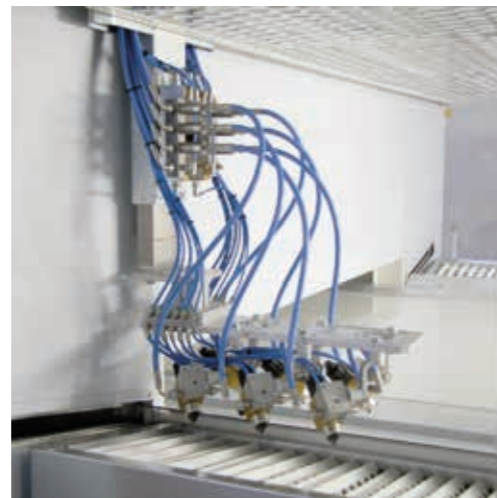
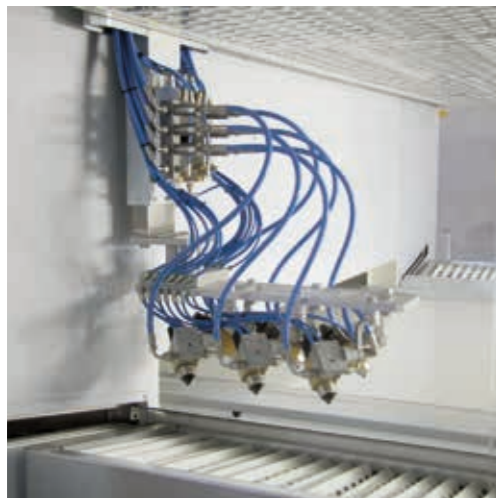
Quick access to the mechanical, electrical parts of the machine without using tools or keys.

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reciprocators and spraying arm



The two reciprocators have independent brushless servo drives. As the drives are independent, Superfici has developed special software to allow the reciprocator carriages to be offset. With the offset very precise overlap patterns can be achieved, giving extremely flat and even coating application.



Gun holders, with positions for up to 8 guns each and be used with up to 6 circuits. Options include quick change gun mounting plate assemblies and motorized height adjustment.

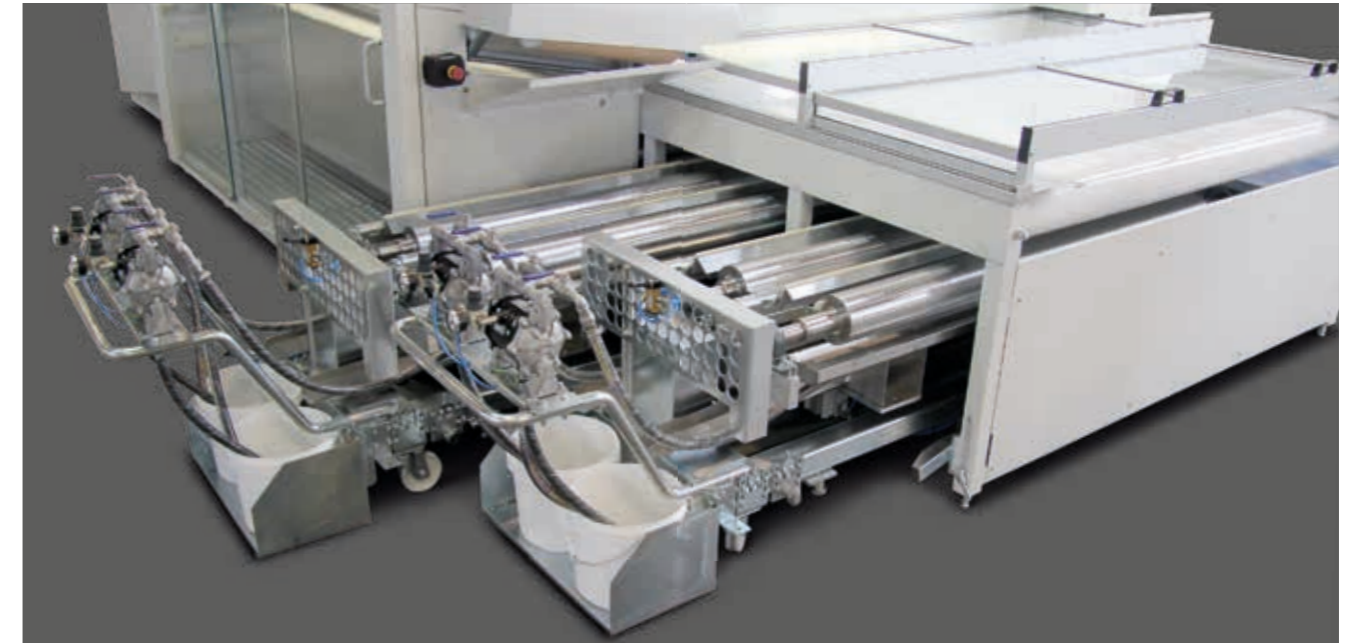


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Lacquer reclaiming unit

Lacquer reclaiming unit "scrape on wet".

The principle of the system to apply on the spraying belt the same material that is being used for spraying the panels. This fresh paint will dissolve the dry material on the belt and it can then be easily removed by means of a scraper. The complete reclaiming system is mounted on a slide out trolley to ease cleaning and quick color change operations. It is also possible with dual units to use in tandem allowing scraper blade clean off without stopping production.



It is possible to install on the machine more units at the same time for an instantaneous quick change and separate lacquer reclaiming of various products.

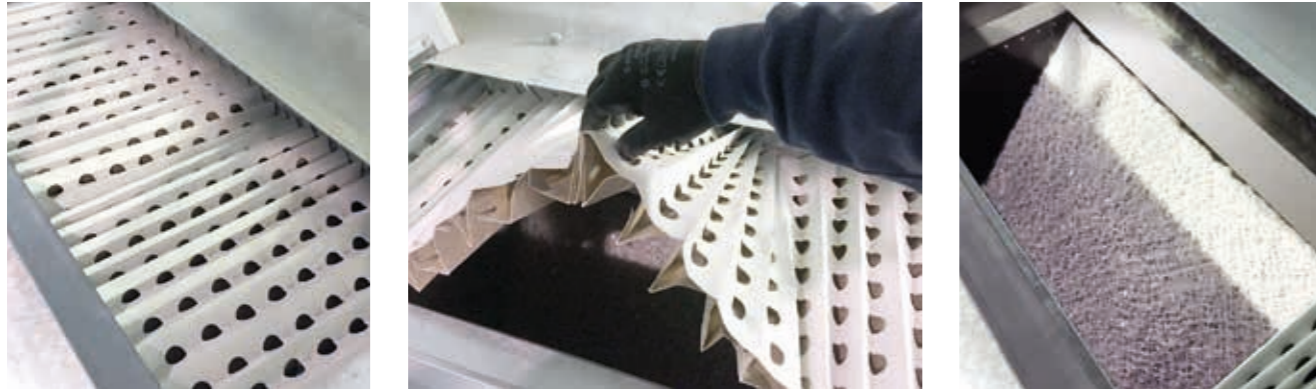


Extra width belt in the spraying area, which achieves a high coating recovery percentage, with less lacquer overspray in the filters. This also prevents the edges of the belt from being contaminated with dried coating.

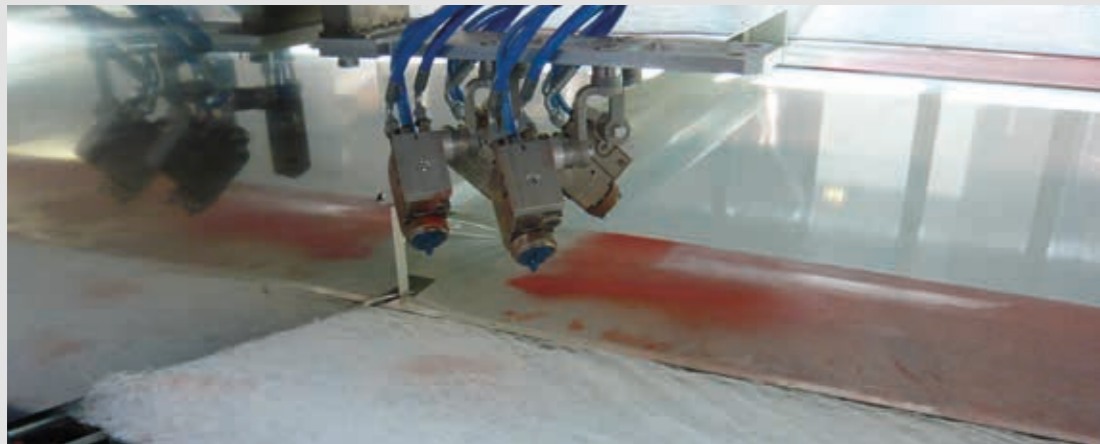
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Filtering systems

Machine can be supplied with dry filtering with double layer of filtering material and totally removable filtering boxes from the two sides of the machine.



As an alternative to the traditional dry filtering, it is possible to install as option the dry filtering system FILTER ON DEMAND, which automatically changes the filters when needed. The dirty filter automatically changes on operator request or after a certain production has been processed. The dirty filter is automatically deposited into a collection tank, located outside the spraying cabin.



The machine can be supplied with a wet filtering system, particularly utilized in case of high gloss finishing. This system consists of a suction tower with an air scrubber and skimmer for the waste collection. The side filters in the machine are now water "weir" style with continuous water flow to the skimmer for cleaning.



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Workpiece detection and control

A diode reading bar at the infeed detects the dimensions, position and shape of the incoming work-piece. The part or parts profile form the base data for accurate spray placement.



The operating system Optispray can be programmed with all relevant parameters. These can be adjusted to specific spraying operations and later be recalled for easy and accurate set-up.



The new software can also control automatic colour changes, up to 10 colours.



The system has a PC interface with a user-friendly 3D graphic. The machine status is shown on the display and can be controlled by our own remote service support.



Technical data

Working width	mm	1350
Spraying width	mm	1700
Working height	mm	900 +/- 20
Reciprocator motor power	Kw	9
Velocità max. speed	m/min	180

Magnum 2

Total installed power approx.	Kw	24
Air volume	m³/h	9500

Machine length

Magnum 2.1	mm	4990
Magnum 2.2	mm	5740
Magnum 2.3	mm	6500

Magnum 3

Total installed power approx.	Kw	26
Air volume	m³/h	13.000

Machine length

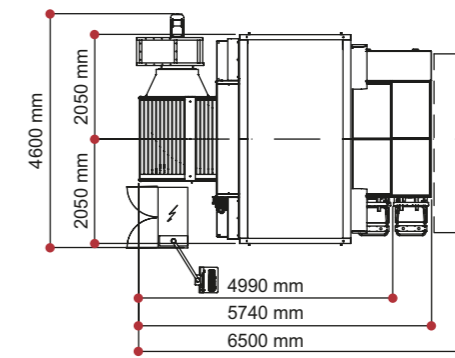
Magnum 3.1	mm	5990
Magnum 3.2	mm	6740
Magnum 3.3	mm	7500

Magnum 4

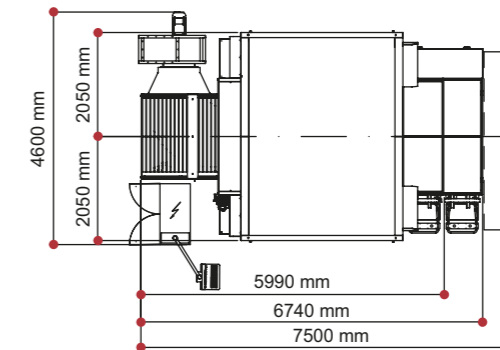
Total installed power approx.	Kw	30
Air volume	m³/h	18.000

Lunghezza macchina

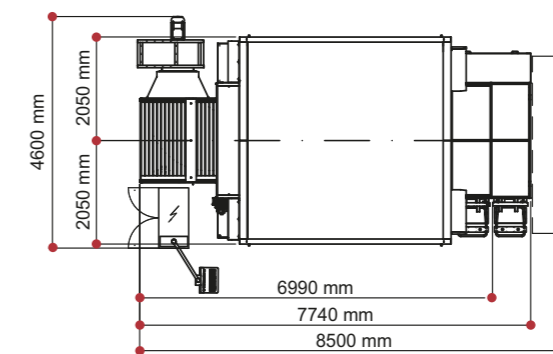
Magnum 4.1	mm	6990
Magnum 4.2	mm	7740
Magnum 4.3	mm	8500



Magnum 2



Magnum 3



Magnum 4

The technical data can vary according to the requested machine composition. In this catalogue, machines are shown with options. The company reserves the right to modify technical specifications without prior notice; the modifications do not influence the safety foreseen by the CE Norms.



YOUR ART OF FINISHING



Finishing lines signed off by Superfici add the most value to your product

Each Superfici finishing line is made with the most advanced technology and maximum versatility. Each solution is created from innovation and experience to add value to every detail and on any material. Many top brands in the world, which make quality their strong point, have chosen to rely on Superfici.



THE STRONGEST WOOD TECHNOLOGIES ARE IN OUR DNA

SCM. A HERITAGE OF SKILLS IN A UNIQUE BRAND

Over 65 years of success gives SCM the centre stage in woodworking technology. This heritage results from bringing together the best know-how in machining and systems for wood-based manufacturing. SCM is present all over the world, brought to you by the widest distribution network in the industry.

- 65 years history
- 3 main production sites in Italy
- 300.000 square metres of production space
- 17.000 machines manufactured per year
- 90% export
- 20 foreign branches
- 350 agents and dealers
- 500 support technicians
- 500 registered patents

In SCM's DNA also strength and solidity of a great Group. The SCM Group is a world leader, manufacturing industrial equipment and components for machining the widest range of materials.

SCM GROUP, A HIGHLY SKILLED TEAM EXPERT IN INDUSTRIAL MACHINES AND COMPONENTS

INDUSTRIAL MACHINERY

Stand-alone machines, integrated systems and services dedicated to processing a wide range of materials.



WOODWORKING TECHNOLOGIES



TECHNOLOGIES FOR PROCESSING COMPOSITE MATERIALS, ALUMINIUM, PLASTIC, GLASS, STONE, METAL

INDUSTRIAL COMPONENTS

Technological components for the Group's machines and systems, for those of third-parties and the machinery industry.



SPINDLES AND TECHNOLOGICAL COMPONENTS



ELECTRIC PANELS



METALWORK



CAST IRON