

# SYSTEM

Modular centres with flexible abrasives for calibration, sanding and finishing in general

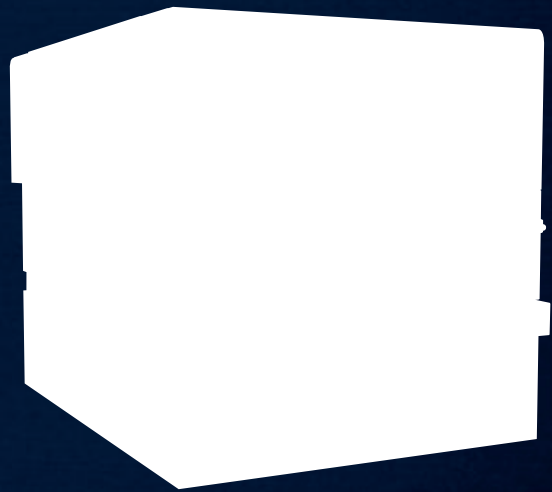




# OUR TECHNOLOGY BEHIND YOUR IDEAS

## SYSTEM

Modular centres with flexible abrasives for calibration, sanding and finishing in general



# SYSTEM

THE MODULAR, CUSTOMISABLE AND  
HIGHLY INNOVATIVE TECHNOLOGICAL  
CONTAINER





Modular structures  
for maximum  
flexibility



Totally  
customisable  
configurations



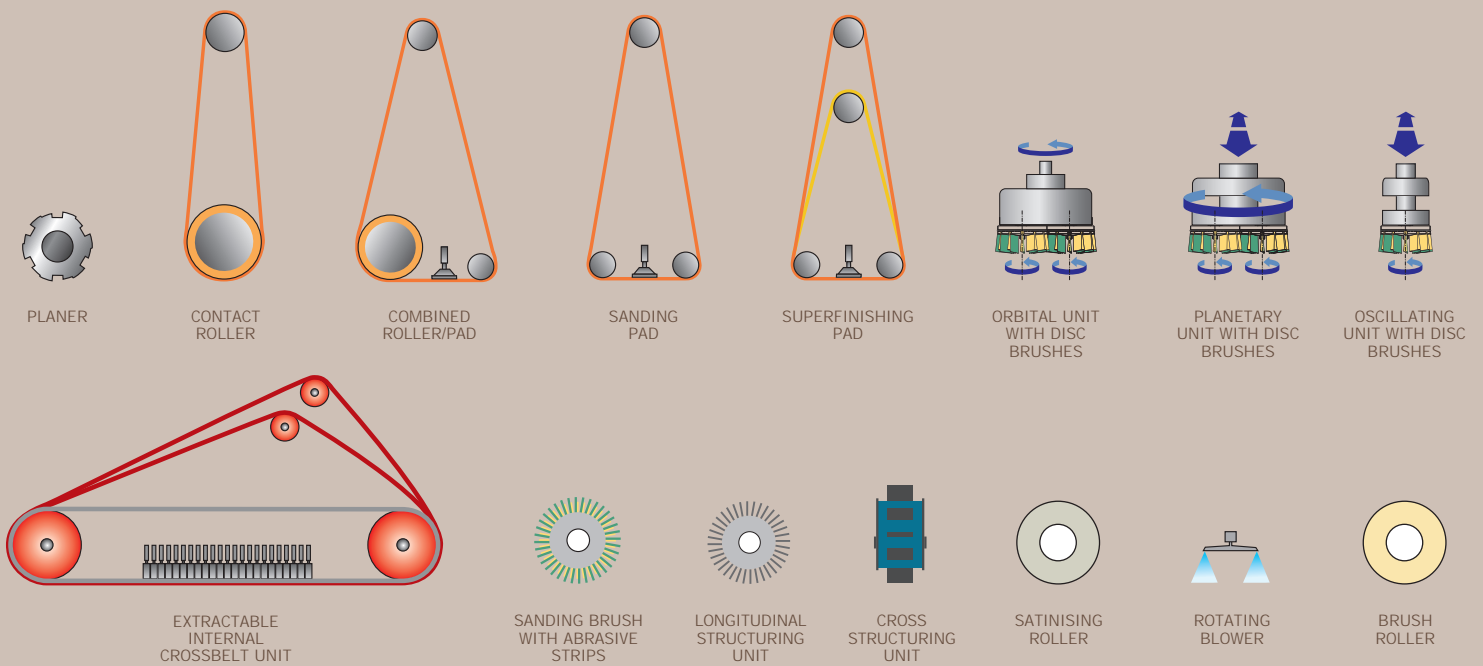
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innovation





Modular structures  
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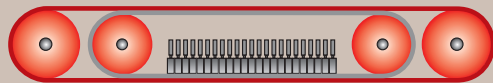
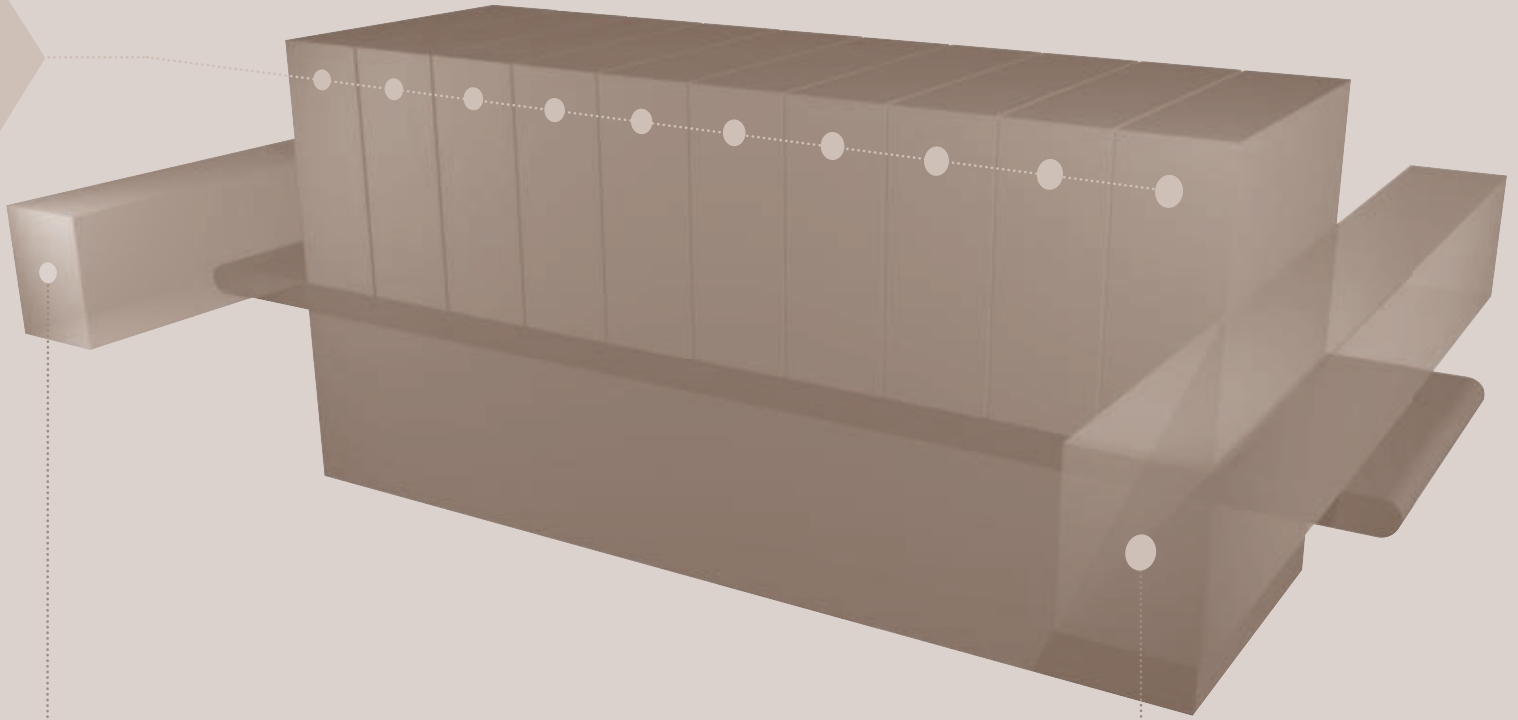
## A RANGE OF MACHINES DESIGNED TO MEET THE REQUIREMENTS OF TODAY AND TOMORROW



System is available with supporting structures able to house up to 10 operating units, to which two external crossbelt units can be added. The modular structure of the machine and the newly designed operating units (each one with its own electronic and pneumatic components on-board) ensure that the machi-

ne composition can always keep abreast with the variable production requirements. In fact the single operating units can be replaced quickly and economically (or their order inside the machine can simply be changed).

# SYSTEM



EXTERNAL  
CROSSBELT UNIT

# SYSTEM T5 1350

WORK CENTRES FOR FINISHING AND  
SUPERFINISHING OF VENEERED AND  
PAINTED PANELS



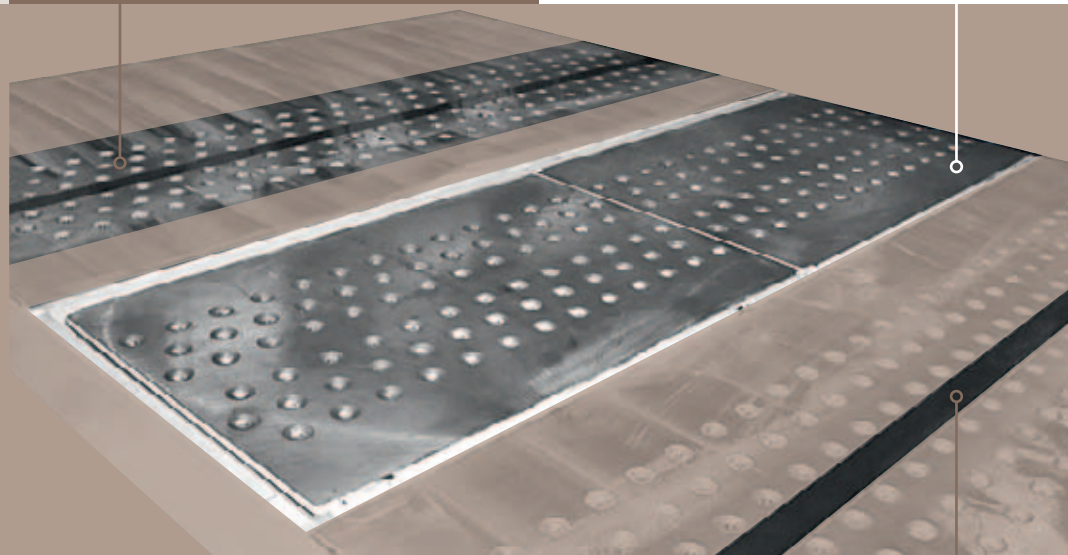
System T5 1350 is an example of a configuration for the furniture industry and contractors that require sanding machines and systems for intensive uses, able to produce excellent finishes on raw and painted panels.





The channelling inside the worktop is used to hold down small sized or particularly slippery workpieces, more effectively compared to traditional vacuum systems.

The optional "floating tables" can be used to compensate the difference in thickness between the various panels. It is produced in 2 or more sections for each operating unit.



Special tempered steel inserts can be placed under every work unit to increase the worktop resistance to wear. The inserts, which are reasonably priced, can be quickly replaced by the user.





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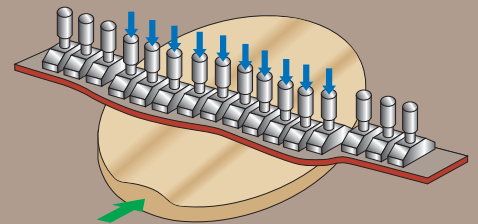
## “EPICS” ELECTRONIC SECTIONAL PADS

The “EPICS” sectional pad consists of a special monolithic beam which houses the cylinders that activate the single sectors. Thanks to the wide excursion of the pistons and the double action system (adjustable pneumatic push/counter push), the “EPICS” pad guarantees maximum sensitivity and precision in any type of machining.



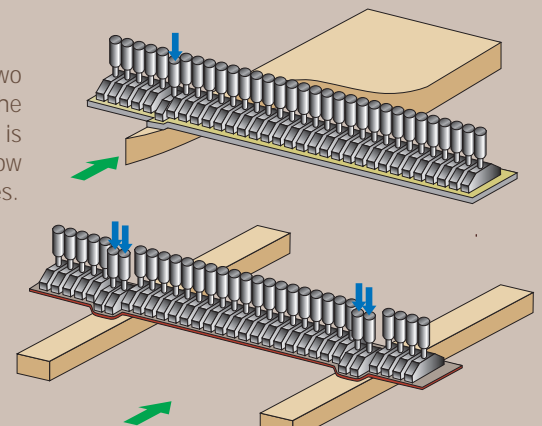
### HIGH COPYING CAPACITY

The unique structure of the pneumatic cylinders allows the “EPICS” pad to sand panels with uneven surfaces perfectly.



### INTERVENTION RESOLUTION

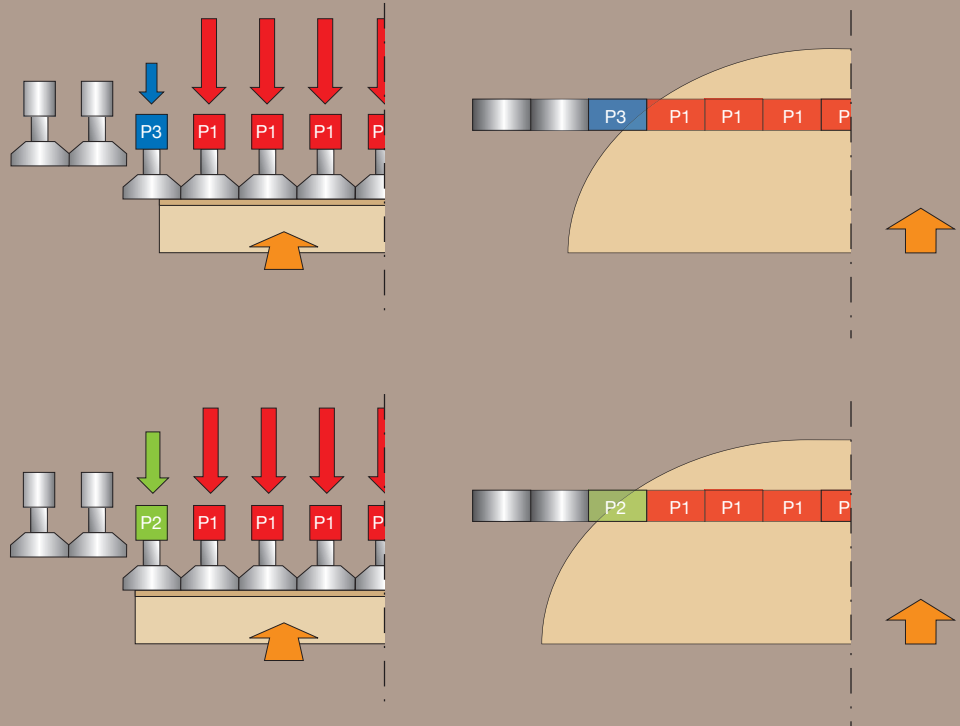
The “EPICS” pad is available with two different centre-to-centre distances of the sectors: 32 mm and 16 mm. The latter is particularly indicated for machining narrow or shaped workpieces with very tight angles.



# "PWM" VARIABLE PRESSURE TECHNOLOGY FOR "EPICS" ELECTRONIC SECTIONAL PADS

The innovative "PWM" system (DMC patent) allows to change in real time the operating pressure of the "EPICS" electronic pad, adapting it to the different panel areas.

The PWM technology allows for a reduced sanding pressure to be applied to the front edge of the panel. The pressure is progressively increased to sand the central area of the panel and then decreased once again for the rear edge. A sophisticated workpieces reading device positioned at the conveyor infeed allows the system to manage different pressures on the side edges of the panel. The pressure varies according to the shape and position that the workpiece is inserted in the machine.



The "PWM" system is totally managed by the "Hydra PC" electronic control. Thanks to the advanced operator interface developed specifically by DMC all the device parameters can be displayed, set and saved in the single work programs.



# SYSTEM TT 1350

WORK CENTRE FOR FINISHING  
PAINTED PANELS IN PREPARATION  
FOR POLISHING



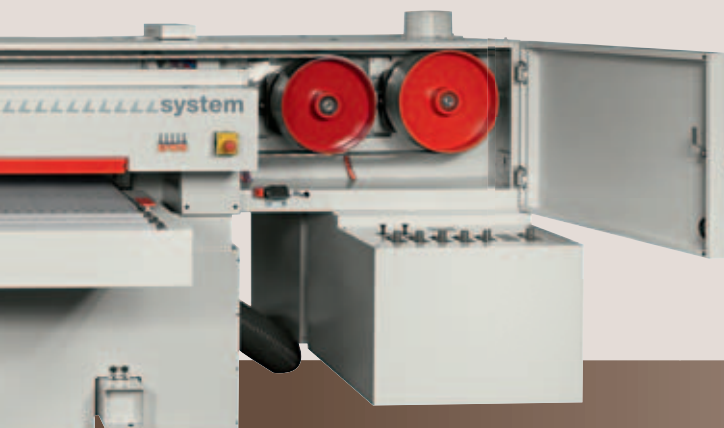
The new DMC System crossbelt units have been designed to reach a higher quality finish and to maximise the life of the sanding belts.

- Sanding belt length: 9500 mm
- "EPICS" electronic pad with "PWM" differential variable pressure technology (optional)
- Large diameter pulleys, independent for sanding and chevron belt
- Highly efficient cleaning and cooling systems with low compressed air consumption and particularly efficient in the removal of dust generated by the sanding belts.



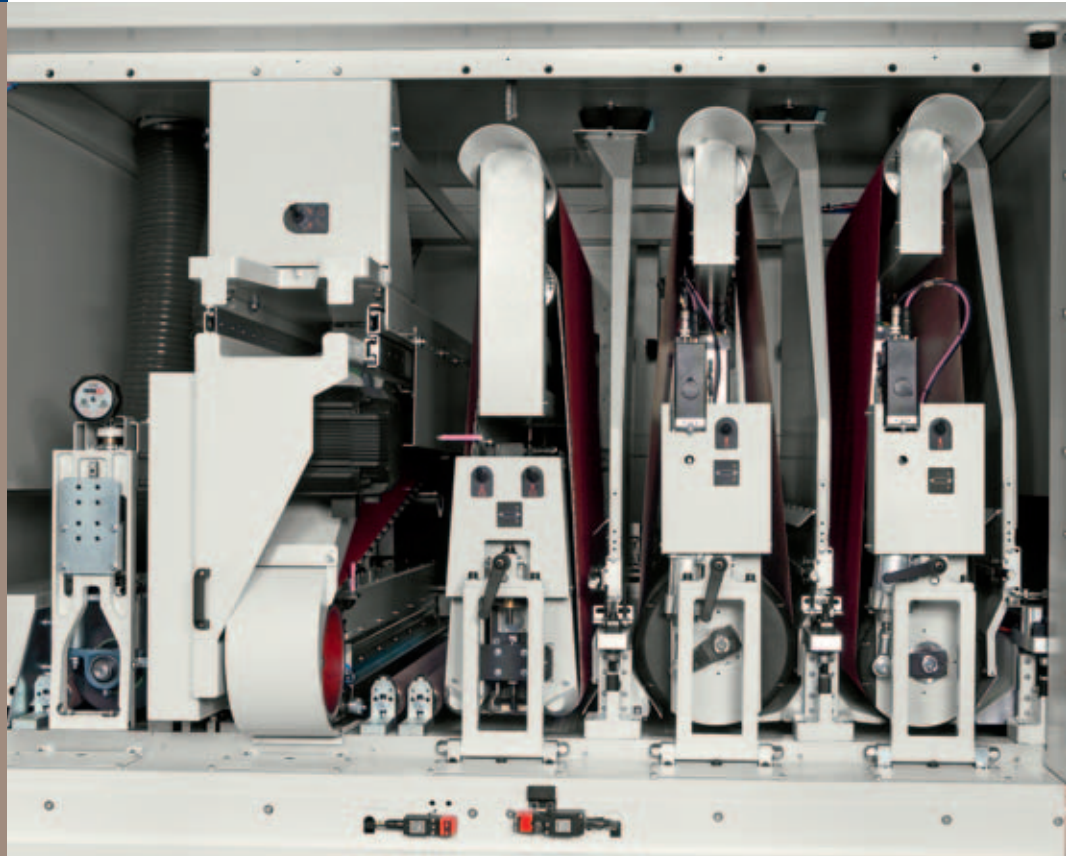


System TT 1350 is the ideal choice for all companies looking for the highest levels of finish on "hi-gloss" panels. The two long counter-rotating transversal belts perfectly prepare the workpieces for the mechanical polishing and buffing processes.

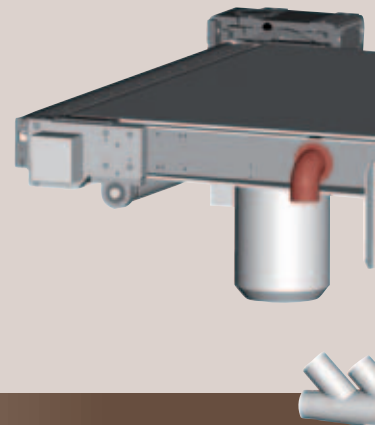


# SYSTEM T5 1350

MULTI-FUNCTIONAL WORK CENTRE FOR  
CONTINUATIVE USES



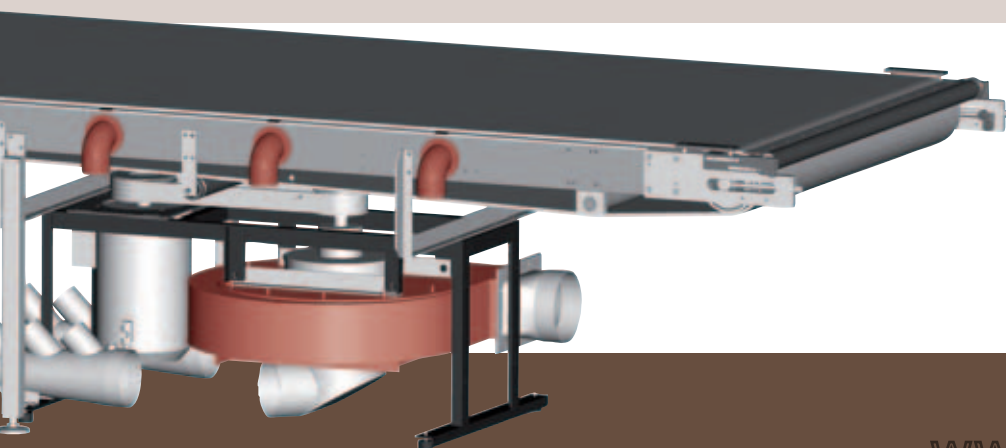
The configuration of the System 1350 T5 shown here, fitted with calibration roller, large diameter sanding roller, superfinishing pad, crossbelt unit and satinising roller, fulfils all the production and finishing requirements of industrial companies and demanding contractors which need to combine productivity with flexibility.





The compact internal crossbelt unit can be placed in any position inside the machine, according to the specific machining requirements of the client. The innovative unit side extraction system on telescopic guides (DMC patent) allows a single operator to replace the sanding

belt very easily, and it facilitates the regular cleaning and inspection activities. The unit is fitted with the "EPICS" electronic sectional pad, power driven rotating blowers to clean the sanding belt and "brushless" motor driven by inverter.

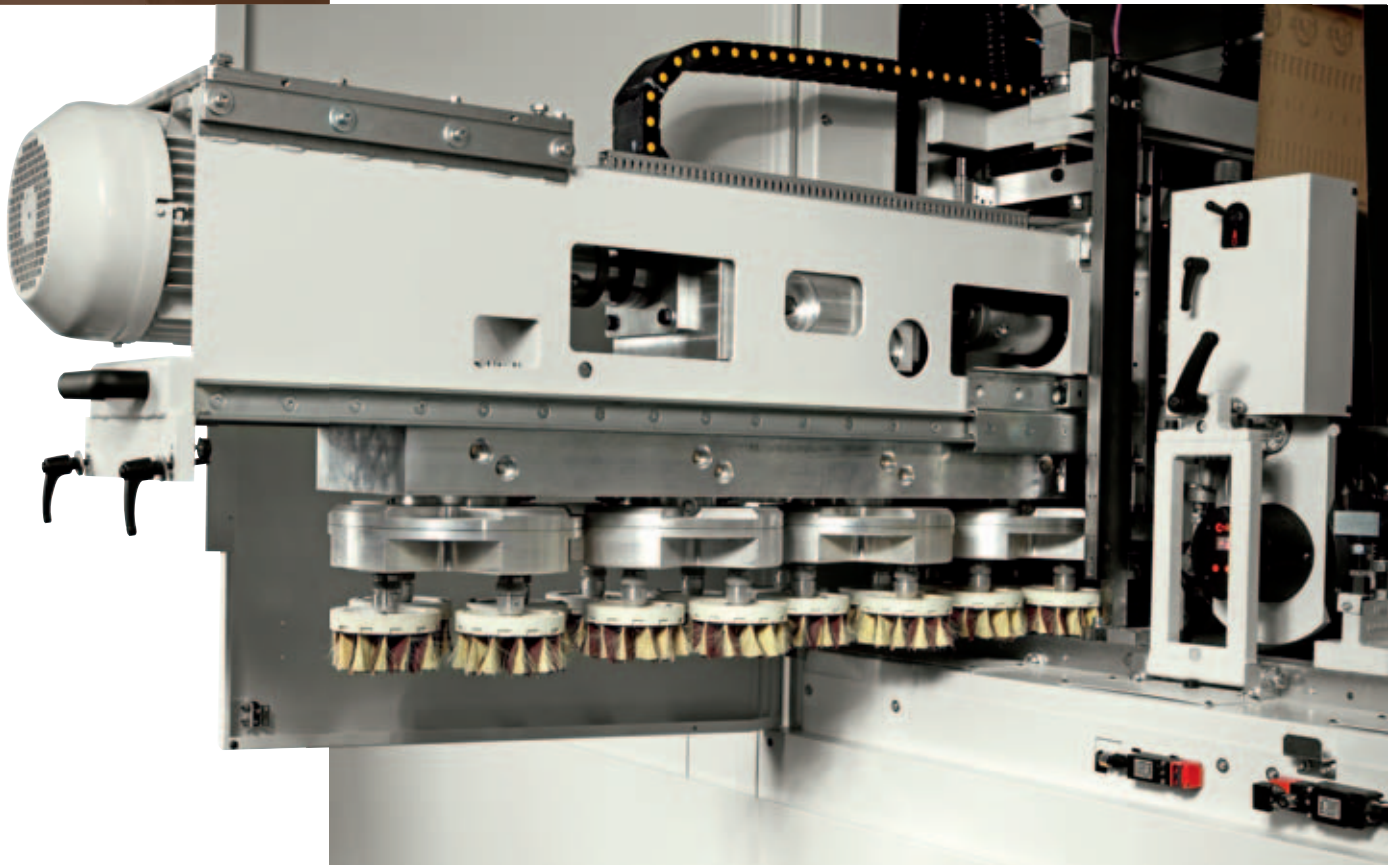


The electro-fan positioned under the work top reduces the spaces occupied by the machine and, most importantly, reduces noise emissions.



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## PLANETARY UNIT



The planetary unit (DMC patent) will revolutionise the finishing processes of wooden products, both due to the extremely wide range of machining processes that it can be used for and for the exceptional finish that it allows.

The principle that renders the planetary head so effective is its multi-directional sanding action: the 3 movements of the unit (rotation of the sanding brushes, counter-rotation of the brush holder discs and lateral movement

of the head) guarantee performances which cannot be achieved with traditional sanders. The various movements of the unit are independent of each other and managed by motors controlled by inverters: this allows for the most suitable combination of rotation speeds to be selected for each application.



#### MAIN APPLICATIONS OF THE PLANETARY UNIT

- Removal of the marks against the grain from frames and window styles
- Improvement of the finish after the traditional sanding with the grain
- Removal of raised wood fibers from workpieces, in preparation for water based painting
- Opening the pores of the wood
- Multi-direction structuring (distressing)
- Sanding melamine papers
- Roughening structured melamine papers
- Edge rounding raw or painted panels
- Rendering stains and primer uniform ("wiping")
- Superfinishing of MDF panels in preparation for coating with Hi Gloss films
- Superfinishing of base coated panels, in preparation for the application of direct hi-gloss paints

Without planetary unit

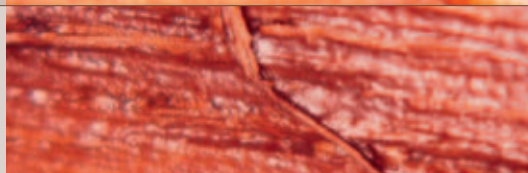


◀ OAK SANDED AGAINST THE GRAIN

With planetary unit



Without planetary unit



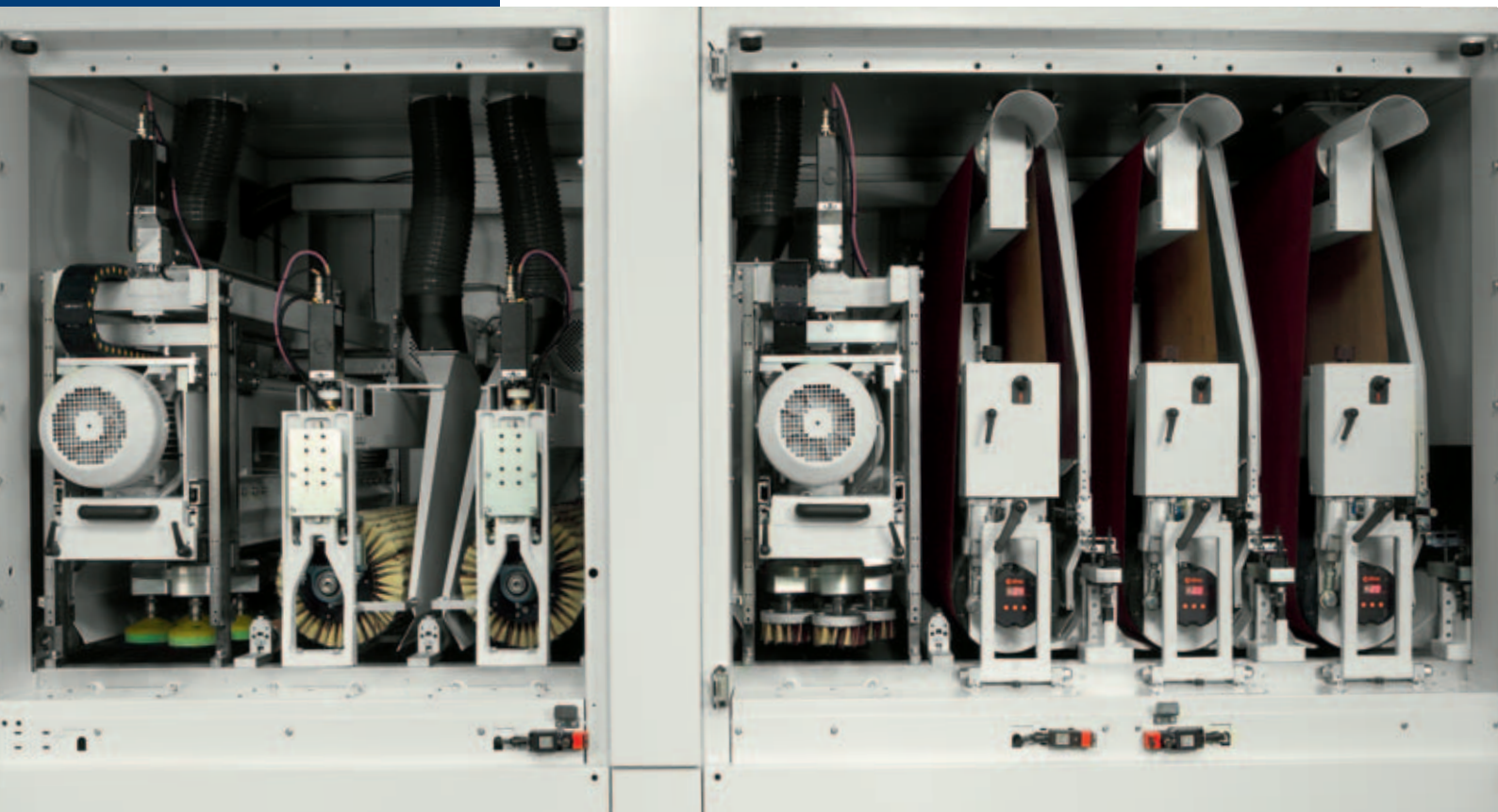
◀ OAK SANDED WITH THE GRAIN AND TREATED WITH WATERBORNE STAIN

With planetary unit



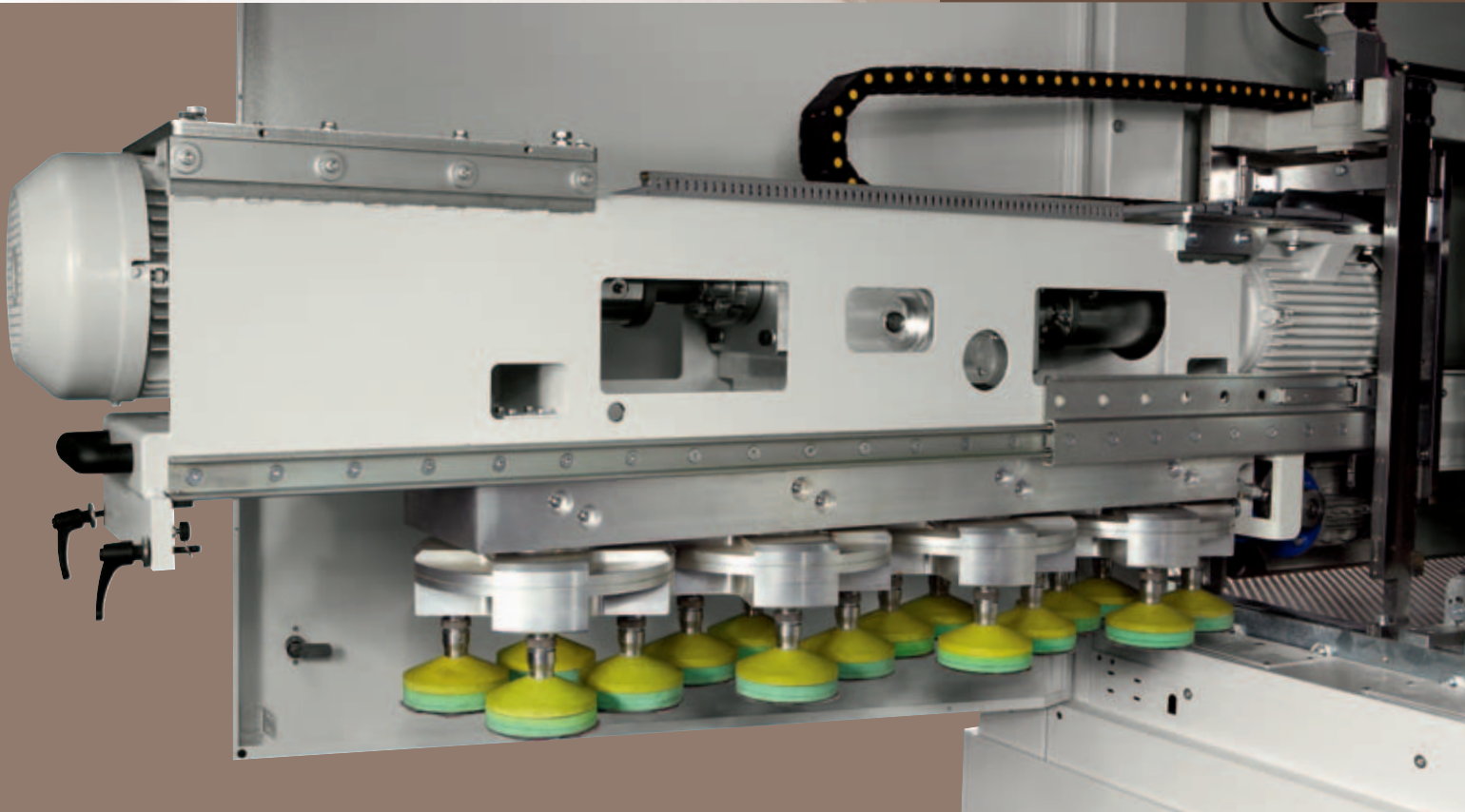
# SYSTEM T7 1350

## WORK CENTRE FOR CALIBRATING AND SANDING KITCHEN DOORS AND WINDOW FRAMES



The System T7 1350, which is fitted with 7 main operating units, is the most advanced solution currently available on the market to machine kitchen doors and window frames, both assembled and single parts. From the calibration straight to the superfinishing, in a single pass through the machine:

- 3 contact roller units perform the traditional single direction calibration and sanding of the door and window frames and their components
- The first planetary unit and the two counter-rotating sanding brushes gently round the sharp edges, cut the raised wood fibers and sand the bevelled edges, blending them with the flat surface of the doors or windows
- The planetary unit in last position efficiently removes the marks left by the longitudinal units on the styles.



The System T7 1350 contact rollers are equipped with heavy pressure bar units, fitted with a monolithic structure and vertical sliding prism guides: maximum precision and reliability in machining door and window frames and in calibrations with high stock removal.



The side extraction of the unit on prism guides and the quick changing system of the brush discs, extensively tested in the SCM work centres, ensure that the machine can be set up quickly and extremely safely and reliably.

# SYSTEM T2 1350

## UNIVERSAL COMPACT WIDE BELT SANDER



The new compact and reliable System T2 1350 has been designed to fulfil the production requirements of small to middle sized companies that don't require specific production processes but prefer a versatility of use. In fact this machine can calibrate

products with the grooved steel roller and subsequently finish the panels with the sanding roller placed in first position and the electronic pad.

- ▶ The large diameter of the sanding roller and the technology of the "EPICS" electronic sectional pad guarantee extremely high quality finishes.



- ▲ The new fast locking system used to fasten the units to the base and the digital display of the operating quota render machine settings extremely fast and precise.

- ▶ The wireless electronic gauge allows the machine to be positioned at the work thickness measured by the device. The communication with the machine is wireless and the working program can also be launched from the remote control.





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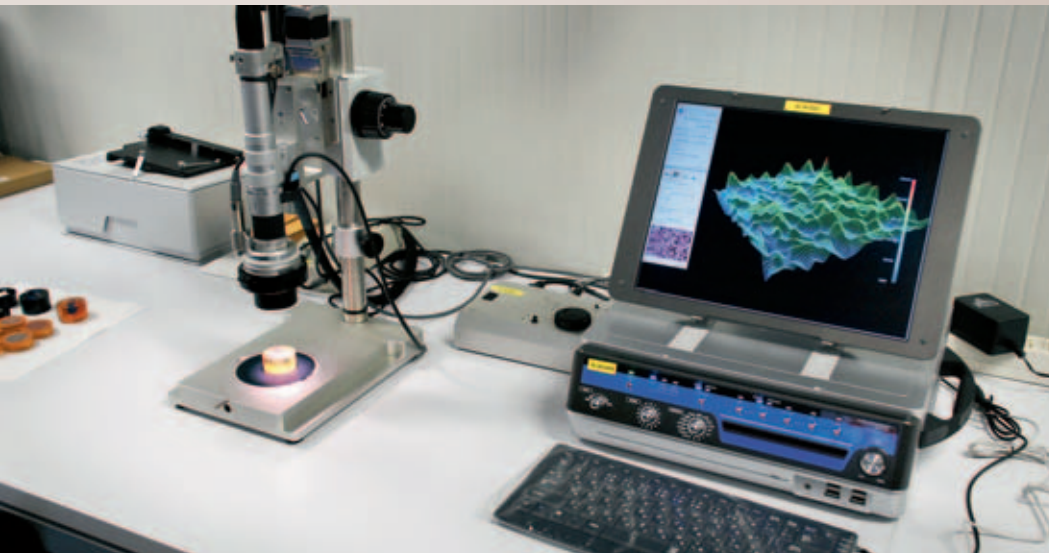
## HYDRA CONTROLS

The "Hydra V-Pad" control, fitted as standard on all the System sanders, is used to set all the operating parameters on the touch screen, and to check in real time the correct operation of the machine.



All the machine management software is proprietary, developed specifically by the DMC engineers and perfected with the feedback provided by the clients. This has resulted in an extremely simple and reliable user interface, which is able to perfectly fulfil all the requirements of the most demanding operators.





Investing in a DMC wide belt sander centre does not mean simply buying a machine. It means becoming a partner of one of the most important Italian industrial groups and having access the exclusive services offered by the advanced technological research centre that the company has recently setup inside its site in Thiene (Vicenza).



The operational centre is managed by highly specialised personnel and it is fitted with sophisticated instrumentation used to analyse the materials being processed and the various types of sanding materials. Thanks to the numerous machines on show, the centre is able to perform any machining test. Clients can therefore have access to immediate and detailed information on the best ways to overcome any issue related to a flexible sanding machine process, in order to achieve new finishes demanded by the market.



Modular structures  
for maximum  
flexibility

## A COMPLETE RANGE OF OPERATING UNITS

CONTACT ROLLER UNIT	Roller diameter (mm)	Max power (kW)	Belt length (mm)
	140	18,5	1900
			2620
			2620
	250	37	3250
			5000
			2620
			3250
			5000
	320	45	1900
			2620
			3250
	400	45	5000
2620			
3250			
2620			
5000			
	90	2620	
		3250	
		5000	

SUPERFINISHING UNIT	Max power (kW)	Belt length (mm)	
	15	2620	
		2620	
		3250	
	18,5	5000	
		2620	
		3250	
	30	5000	

COMBINATION UNIT	Roller diameter (mm)	Max power (kW)	Belt length (mm)
	140	18,5	1900
			2620
			3250

COMPACT INTERNAL CROSSBELT UNIT	Machine version	Belt length (mm)	Max power (kW)
	1350	4600	15
	1650	5194	15

EXTERNAL CROSSBELT UNIT	Machine version	Belt length (mm)	Max power (kW)
	1350	7500	18,5
		9500	18,5
	1650	9500	22


PAD UNIT	Max power (kW)	Belt length (mm)	
	15	1900	
		2620	
		2620	
	18,5	37	3250
			5000
			2620
			3250
	30	45	5000
			2620
			3250
			5000

PLANER UNIT	Tool diameter (mm)	Max power (kW)
	180	30




# SYSTEM

CROSS STRUCTURING UNIT	Belt length (mm)	Max power (kW)	
	4000	11	


LONGITUDINAL STRUCTURING UNIT	Tool diameter (mm)	Max power (kW)	
	200	7,5	
	250	18,5	

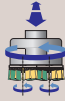
SANDING BRUSH UNIT	Tool diameter (mm)	Max power (kW)	
	300	4	
	400		

SATINISING BRUSH UNIT	Tool diameter (mm)	Max power (kW)	
	200	2,2	
	250	4	

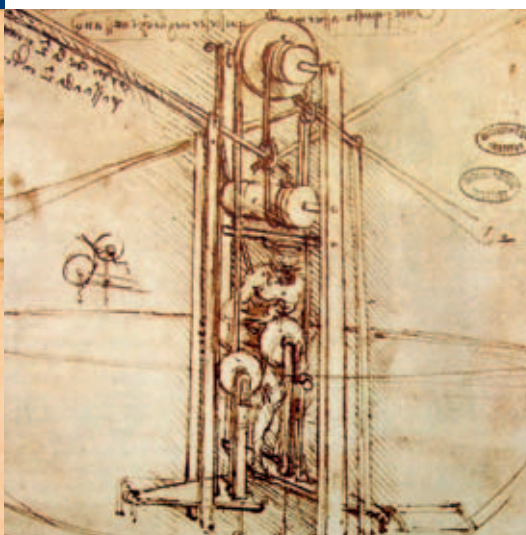
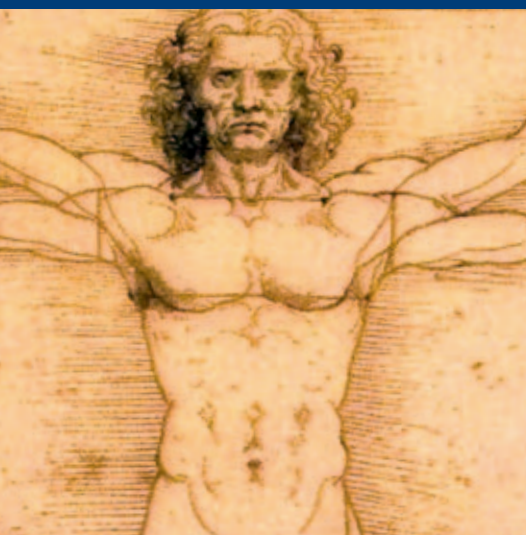
OSCILLATING UNIT WITH VERTICAL BRUSHES	Machine version	Number of brushes	Unit movement
	1350	9 (Ø 125 mm)	oscillating
	1650	11 (Ø 125 mm)	oscillating

WORKPIECES CLEANING BRUSH UNIT	Tool diameter (mm)	Max power (kW)	
	150	1,1	
	200	1,5	
	250	2,2	

ORBITAL UNIT WITH VERTICAL BRUSHES	Machine version	Number of brushes	Unit movement
	1350	19 (Ø 125 mm)	orbitating
	1650	23 (Ø 125 mm)	orbitating

PLANETARY UNIT WITH VERTICAL BRUSHES	Machine version	Number of brush holder discs	Unit movements	Unit movement
	1350	4	16 (Ø 125 mm)	planetary+oscillating
	1650	5	20 (Ø 125 mm)	planetary+oscillating

Some photos show machines with optional devices. The information contained and the technical data may be changed without notice.



Scm group is a leading industrial group, in the design, production and distribution of technologically advanced solutions for processing a wide range of materials: wood, glass, plastic, marble, metal, composites.

With specialist brands in the different application sectors and centres of excellence qualified in industrial components, scm group is present for over 50 years in the 5 continents.

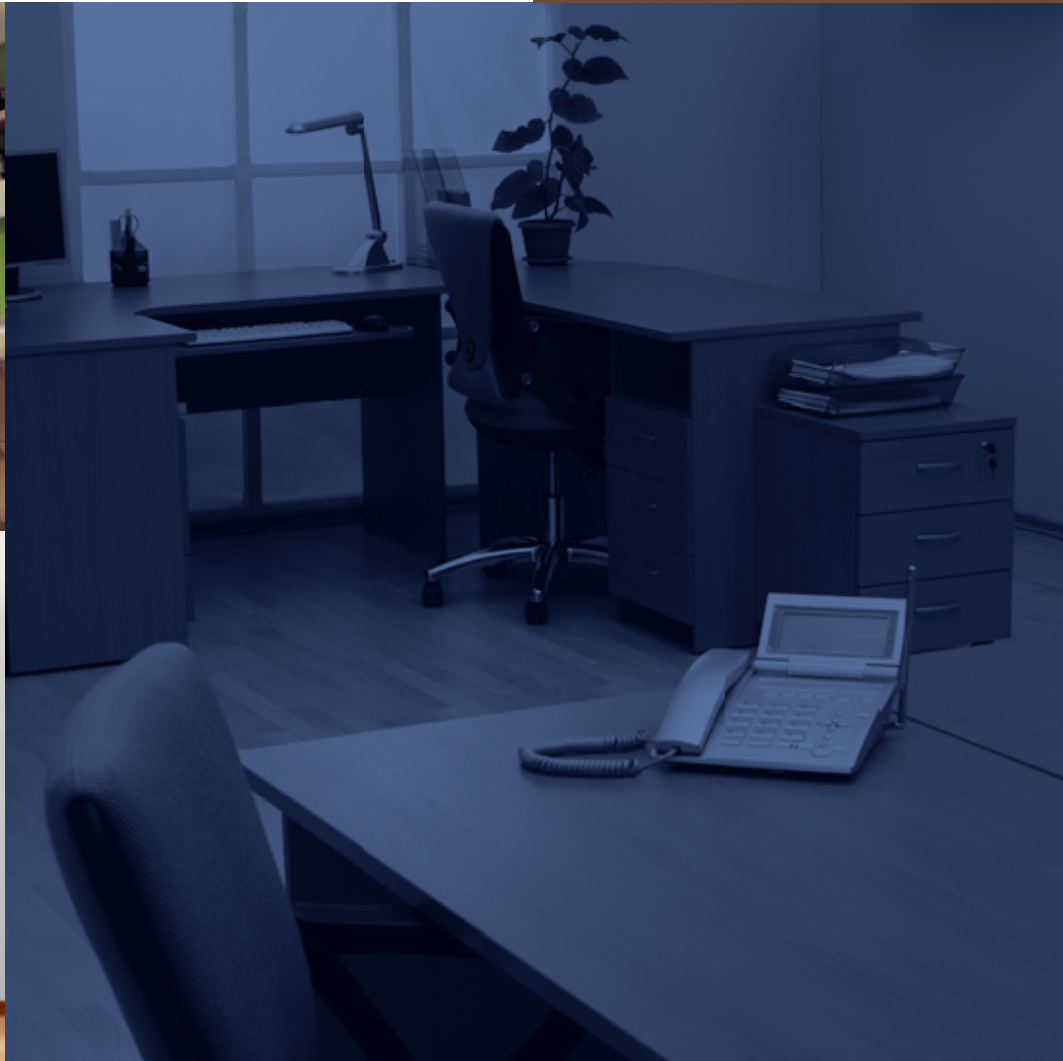
**PASSION.** It's the passion for our work. It's the central role of man, his creative genius, the spirit of initiative and the ability to work in a team.

**TECHNOLOGY.** Is the scientific rigour that transforms creativity in highly technological solutions, which are accessible and able to provide competitive advantages.

**PERFORMANCE.** Is the commitment that is transformed in results and success of our partners that rely on SCM Group solutions. It's being recognised as suppliers of "competitive advantages that last over time".

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- amongst the first in the world in terms of volumes
- present in the market for over 50 years with the most prestigious brands
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