

wide belt sanders

dmc sd range

automatic wide belt sanders



REV. N. 04 - 07.2024



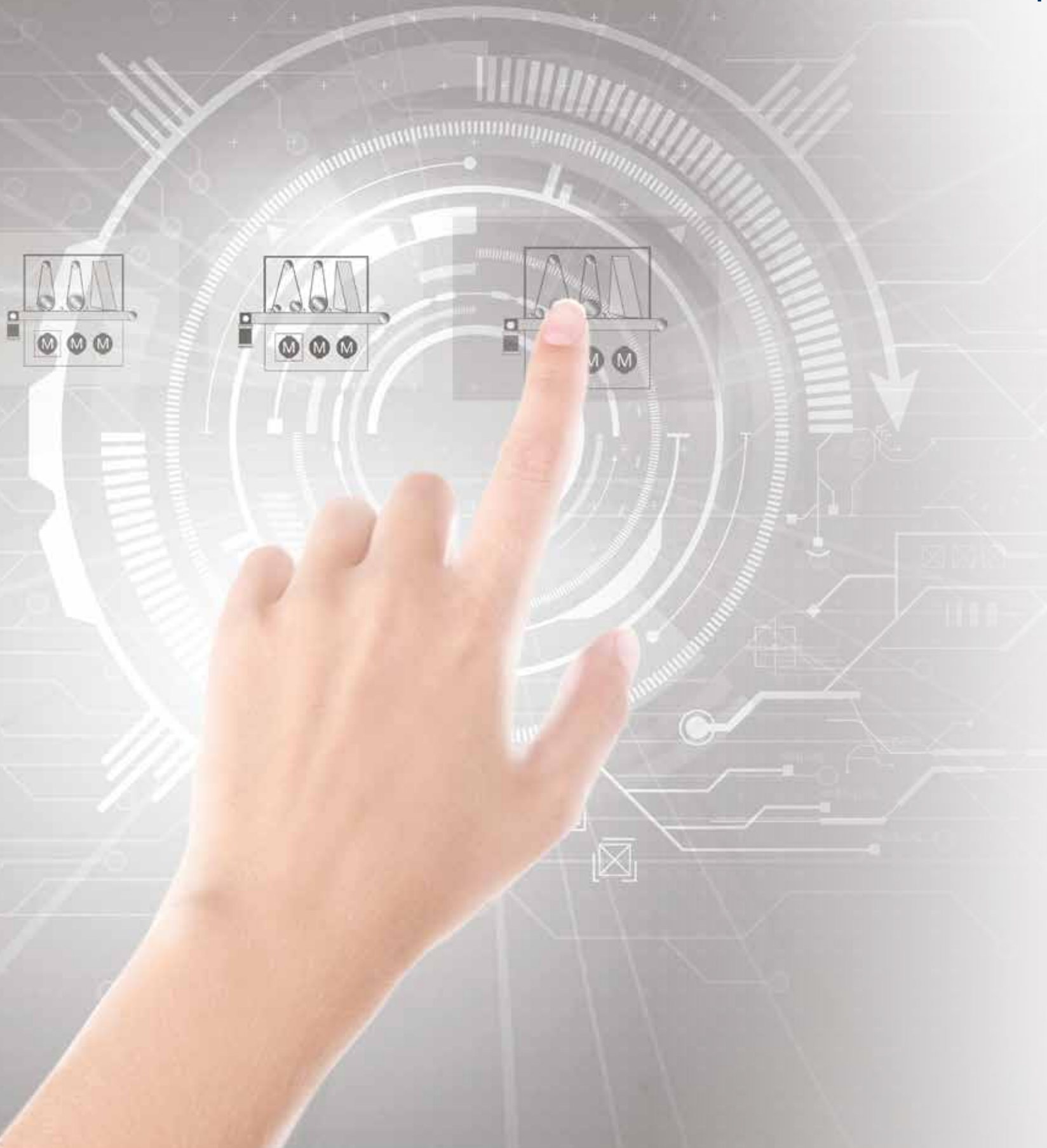
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www.scmwood.com



00L0365644H



YOUR NEEDS, OUR SOLUTIONS



dmc sd 30



dmc sd 60



dmc sd 70



dmc sd 90

- 6
DMC SD 30
- 8
DMC SD 60
- 10
DMC SD 70
- 12
DMC SD 90

SOLID



Sturdy main frame for high production capabilities.

Up to 18,5 kW power for **high stock removal calibrating**.

MADE IN ITALY



100% made in Italy
Over 60 years' experience in innovating and manufacturing woodworking machines guarantees **top reliability and quality standards**.

RELIABLE



Technical features and design characteristics ensure a correct functioning and a **long-lasting reliability**.

FLEXIBLE



Wide availability of technological devices which makes the **sd range flexible and versatile** for every production process.

LEAN



The design, the concept and the general principles for the machine project are inspired by **lean production** to grant the customer a maximized result.

44
Machine control

45
Technical data

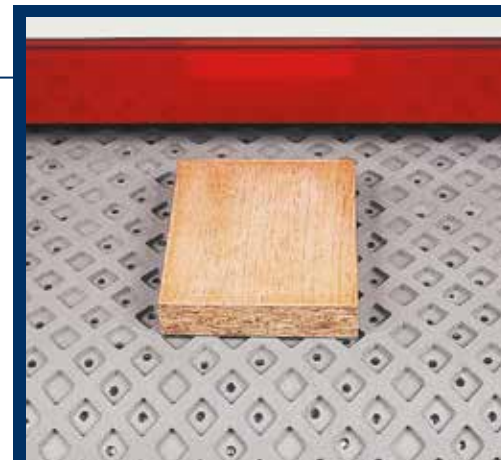
TECHNOLOGICAL FEATURES

TECHNOLOGICAL ADVANTAGES

dmc sd 30
automatic wide belt sanders



Belt oscillation controlled by an electronic photocell for longer life span of the belt.



Natural rubber vacuum table with diamond-shaped belt: the best piece traction and the maximum stability.

Available versions

It is available with 950 and 1100 mm working widths, it is possible to accommodate 1 to 2 operating units to ensure a high flexibility level.



CS



RCS



Sequencing Led indicator for panel introduction to ensure reduced machining costs.



Working table with wide-opening from 4 to 170 mm, for substantial working thickness processing.

sd 60

TECHNOLOGICAL FEATURES

TECHNOLOGICAL ADVANTAGES

dmc sd 60

automatic wide belt sanders



10" eye-S control panel with Maestro active s



Automatic table positioning:
the automatic detection
of the work piece
thickness allows precise
machining at all times.



CS



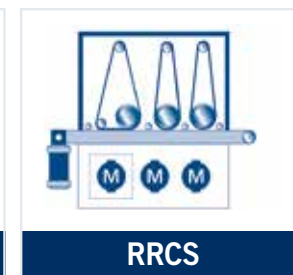
RR



RCS



RRR



RRCS

Available versions
Five versions, one to five
operating units and
1100 and 1350 mm working
widths.



**Sequencing Led indicator for
panel introduction** to ensure
reduced machine costs.



"HPL" planer unit, maximum
removal in just one single
pass.



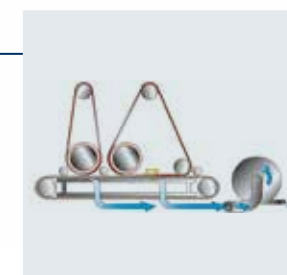
**Buffing and
structuring
units on the
outfeed of
the working
table for
exclusive
surface
finishes.**



**Interchangeable
brushing unit
on the outfeed
of the working
table for high
processing
flexibility.**



Automatic feed belt centering for a longer
lifespan of the belt.



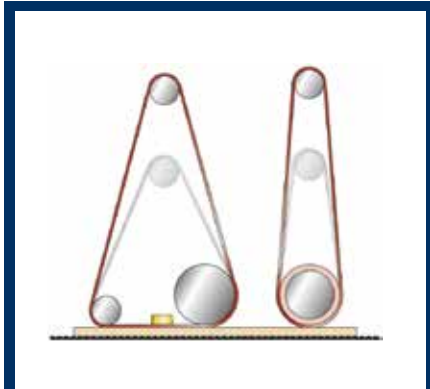
Vacuum table
no slipping of the
work piece.

TECHNOLOGICAL FEATURES

TECHNOLOGICAL ADVANTAGES

dmc sd 70

automatic wide belt sanders



Long belts: 2620 mm length
for greater productivity and less downtime.



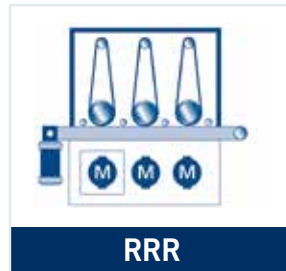
160 mm rollers diameters
for heavy-duty processing.



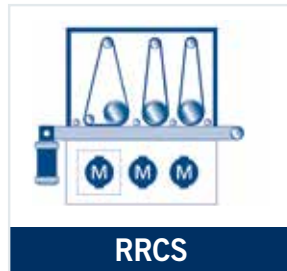
RR



RCS



RRR



RRCS

Available versions
Four versions, equipped
with two or three
operating units and
1350 mm working widths.



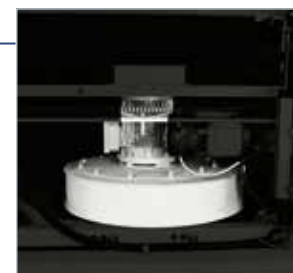
Belt oscillation
controlled by an
electronic photocell
for longer lifespan of
the belt.



Oscillating buffing unit
and structuring unit
on the outfeed of
the working table for
exclusive finishing.



Interchangeable
brushing unit
on the outfeed
of the working
table for high
processing
flexibility.



Integrated electro-
fan, reduced overall
dimensions and noise
emissions with the fan
positioned under the
work table.

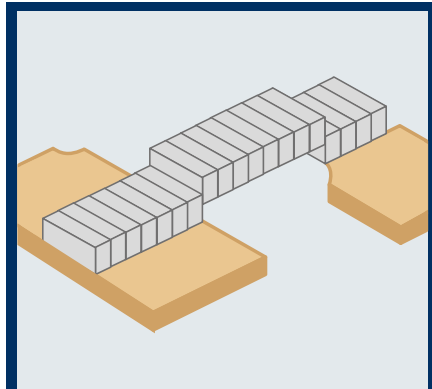
900 mm fixed
height worktable
for increased
versatility (opt.)

TECHNOLOGICAL FEATURES

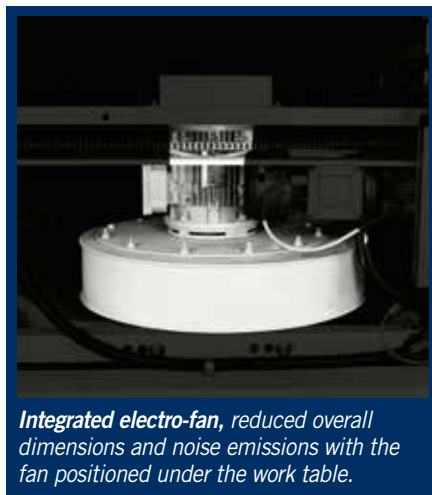
TECHNOLOGICAL ADVANTAGES

dmc sd 90

automatic wide belt sanders



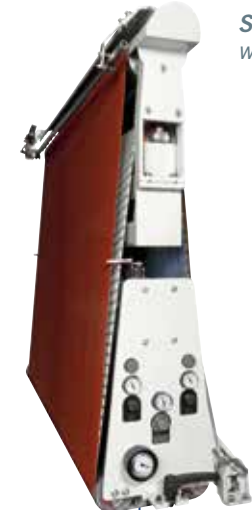
Electronic sectional pad.



Integrated electro-fan, reduced overall dimensions and noise emissions with the fan positioned under the work table.



Multifunctional drum unit to switch from calibration to sanding operations with a single operating unit.



Superfinishing unit with 2620 mm belt length.

Natural rubber vacuum table with diamond-shaped belt: the best piece traction and the maximum stability.



Internal crossbelt unit with 5000 mm belt length.

Available versions

It is available in 12 versions, with two or three main operating groups, in which it is possible to insert a crossbelt or a planer unit in the first position, substitute the pad unit with a superfinishing unit, and add a complete range of devices for the work table and the presser units.



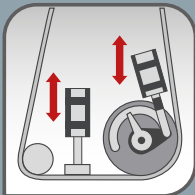
AVAILABLE PRE-CONFIGURED VERSIONS FOR DIVERSIFIED MACHINING

The available versions allow to set the machine in order to realize diversified machining with the highest level of finishing. The dmc sd range is the correct choice for SME's requiring customised solutions for answering swiftly to any market requirement.

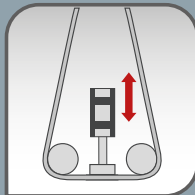
A VERSION



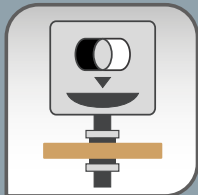
On-off pneumatic selector for rollers



On-off pneumatic selector for combined unit



On-off pneumatic selector for pad

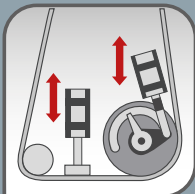


Electronic working thickness positioning

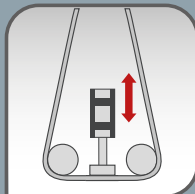
B VERSION



On-off pneumatic selector for rollers



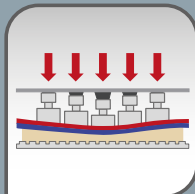
On-off pneumatic selector for combined unit



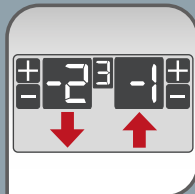
On-off pneumatic selector for pad



Electronic working thickness positioning



Elastic sectional pad

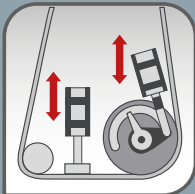


Logic 50 electronic programmer

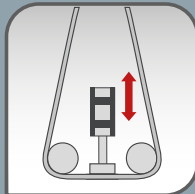
C VERSION



On-off pneumatic selector for rollers



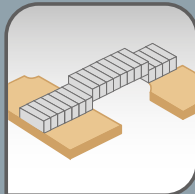
On-off pneumatic selector for combined unit



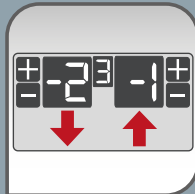
On-off pneumatic selector for pad



Electronic working thickness positioning



Electronic sectional pad



Logic 50 electronic programmer

A VERSION

THE IDEAL SOLUTION FOR SOLID WOOD

dmc sd range
automatic wide belt sanders



ON/OFF PNEUMATIC SELECTOR ON THE ROLLER UNIT
It allows the roller exclusion from the sanding process while maintaining the working table position unchanged.



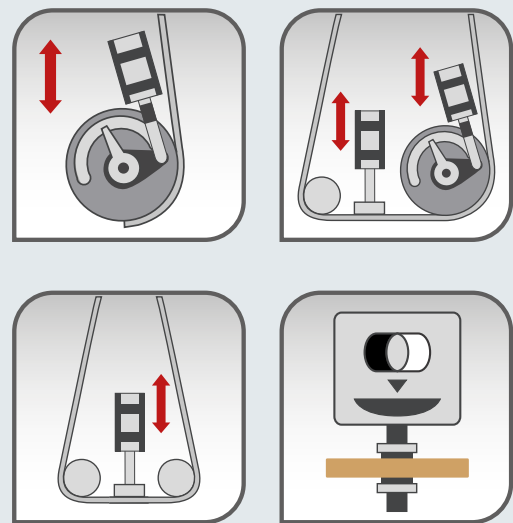
ON/OFF PNEUMATIC SELECTOR FOR COMBINED UNIT
It allows the roller exclusion, or the sanding pad exclusion or both of them, from the sanding process while maintaining the working table position unchanged.



EXTRACTABLE RIGID PAD
The rapid extraction system allows easy interchangeability of inserts for a rapid changeover from one type of machining to another. Possibility to add the semi-rigid pad when sanding veneered panels (option).



AUTOMATIC TABLE POSITIONING
The automatic detection of the work piece thickness allows precise machining at all times and without the risk of operator error. The decimal setting of this system also allows setting the work depth independently of the material.



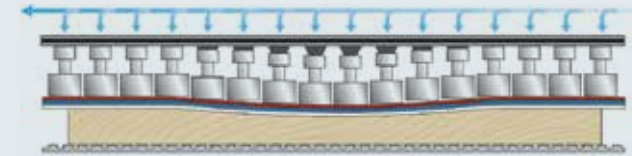
Universal calibrating and sanding of **solid wood**.

1. On-off pneumatic selector for rollers
2. On-off pneumatic selector for combined unit
3. On-off pneumatic selector for pad
4. Electronic working thickness positioning

B VERSION

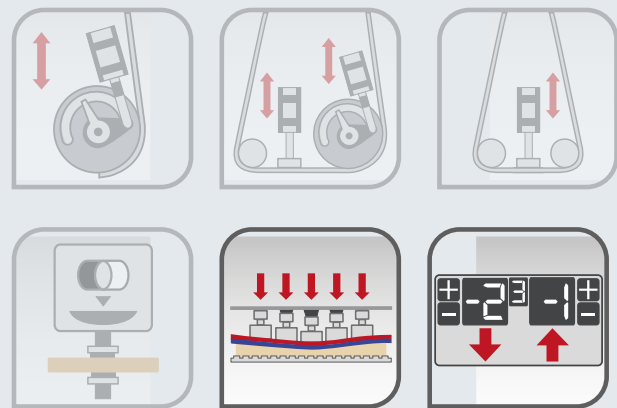
THE IDEAL SOLUTION FOR SOLID WOOD AND VENEERED MATERIALS

dmc sd range
automatic wide belt sanders



ELASTIC SECTIONAL PAD

Thanks to its capacity of adapting the irregular surfaces, it can be used for veneered panels sanding, even when they are not perfectly flat.



Calibrating and sanding of **solid wood and veneered material**.

1. On-off pneumatic selector for rollers
2. On-off pneumatic selector for combined unit
3. On-off pneumatic selector for pad
4. Electronic working thickness positioning
5. Elastic sectional pad
6. Logic 50 electronic programmer



"LOGIC 50" ELECTRONIC PROGRAMMER

Easy to use.

It controls a sectional pad in addition to pads and rollers, for machines with variable feed speed.

C VERSION

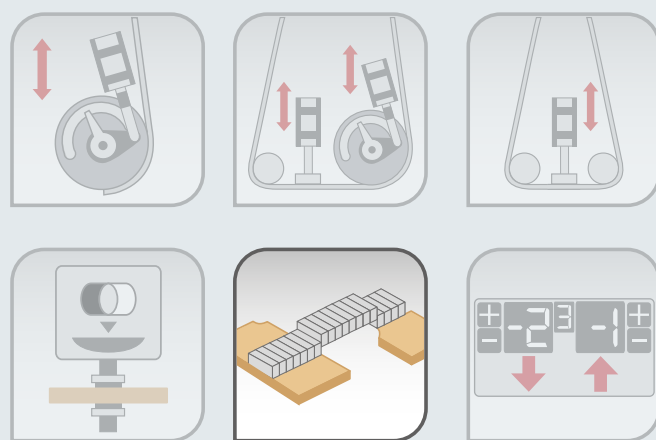
THE IDEAL
SOLUTION FOR
SOLID WOOD,
VENEERED AND
PAINTED MATERIALS

dmc sd range
automatic wide belt sanders



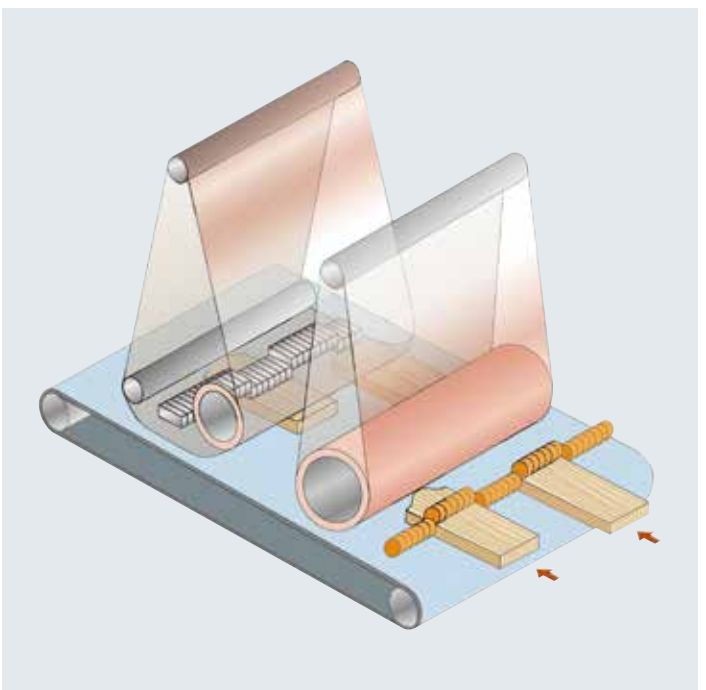
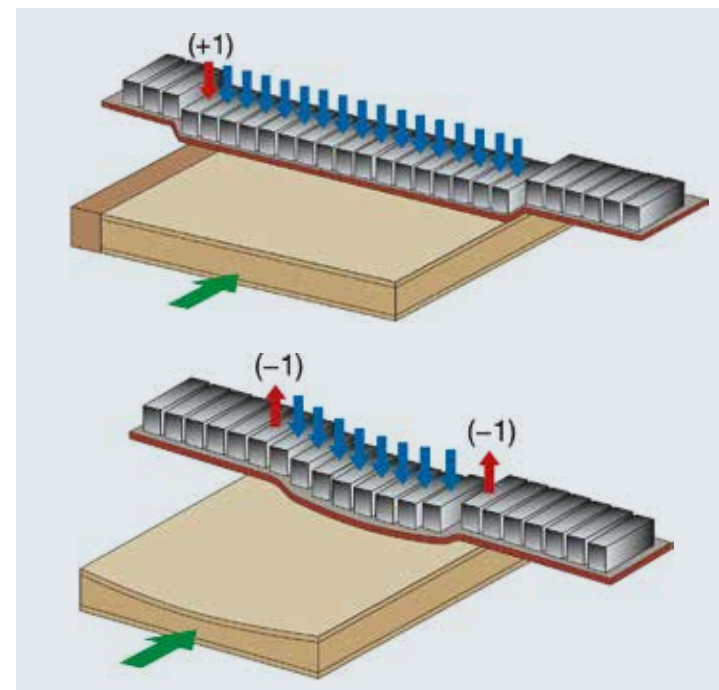
“MESAR” ELECTRONIC SECTIONAL PAD, THE BEST FINISH WITH ANY MATERIAL

Higher quality results due to the special shape of the sectors that allow the operator to intervene “softly” but also in an “aggressive” way, simply by varying the working pressure. The setting of the pad position and the possibility of using foils of different thicknesses increases its versatility. A line of sensors detecting the work piece profile, automatically controls the electronic pad intervention thus avoiding any possible damage when machining.



Solid wood and veneered calibrating and sanding **also on honeycomb panels** with irregular shapes and **painted materials**.

1. On-off pneumatic selector for rollers
2. On-off pneumatic selector for combined unit
3. On-off pneumatic selector for pad
4. Electronic working thickness positioning
5. **Electronic sectional pad**
6. Logic 50 electronic programmer



OPERATING UNITS

AVAILABLE VERSIONS



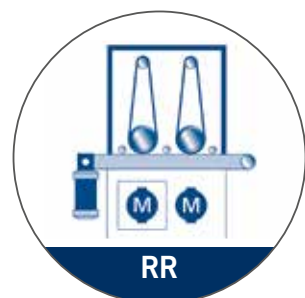
CS

CS VERSION

The CS combined unit is the secret of the dmc sd 30 and sd 60 flexibility.

The possibility to use the roller and the pad either simultaneously or independently of one another provides high quality results.

sd 30 sd 60

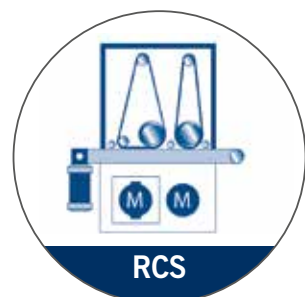


RR

RR VERSION

This version is perfect for operations where heavy stock removal rates are required or where users have to machine narrow work pieces or any type of frame (windows and door frames). The large dimensioned sanding roller guarantees the very best finishing even on veneered and painted surfaces.

sd 60 sd 70 sd 90



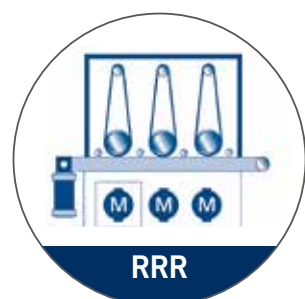
RCS

RCS VERSION

Higher flexibility and productivity for a top quality finishing in a single passage. Ideal for all “typical” requirements of woodworking and veneering companies: from solid wood to veneered panels.

The electronic sectional pad availability in models with 1100 mm working width, also enables the machining and sanding of honey-comb veneered panels.

sd 30 sd 60 sd 70 sd 90

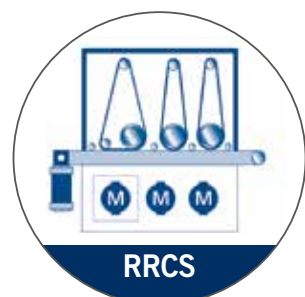


RRR

RRR VERSION

This version is dedicated to customers specialised in calibrating and sanding of generic solid wood and doors and windows elements. The machine configuration equipped with three working units guarantees the full process in one single pass.

sd 60 sd 70 sd 90

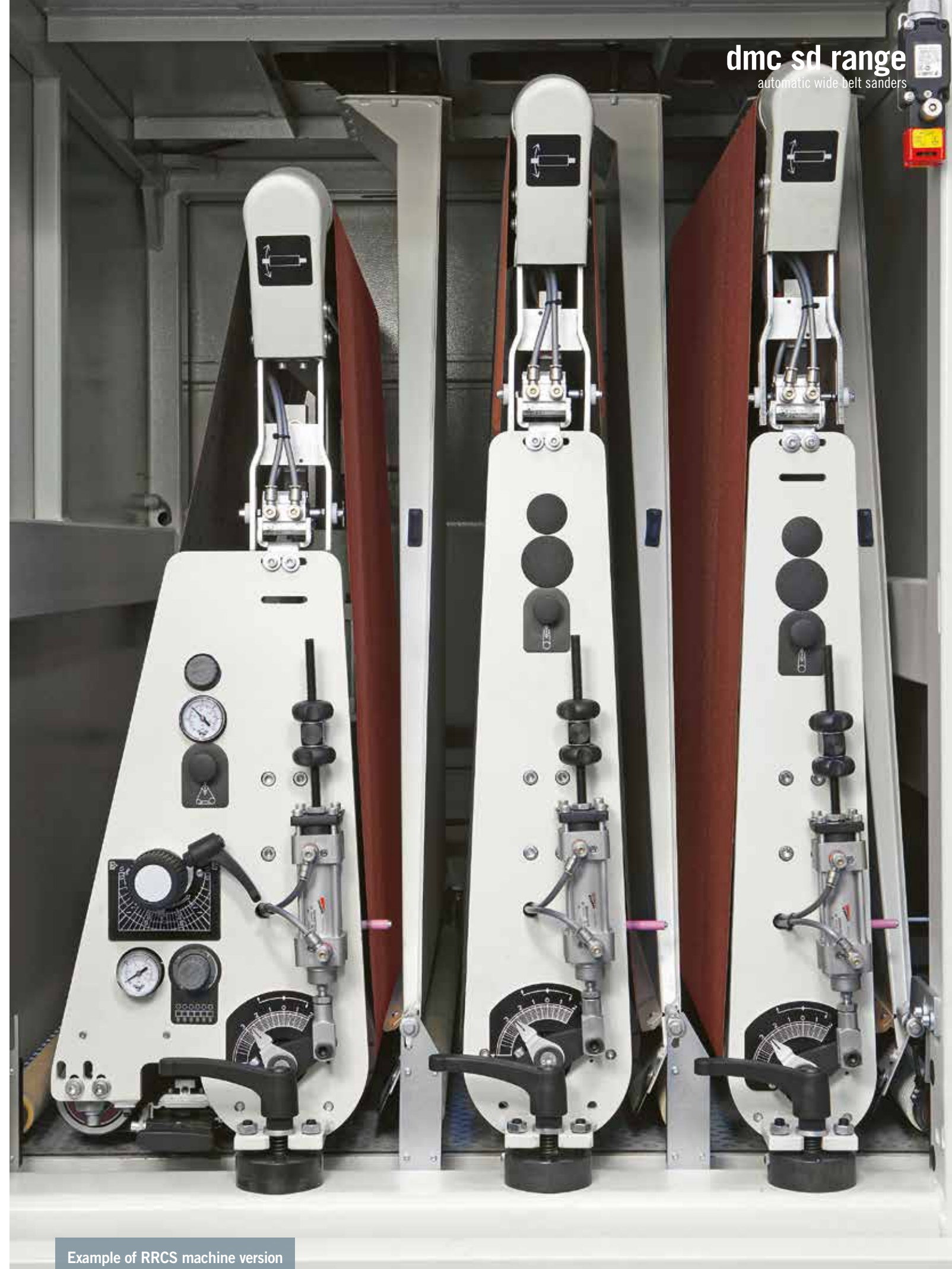


RRCS

RRCS VERSION

The 3-unit configuration ensures high flexibility and time saving and makes this machine perfect for both calibrating and sanding operations of large dimensioned panels. In the furniture sector (with veneered, lacquered and painted panels) it excels in the provision of an optimum level of finishing due to the “MESAR” electronic sectional pad.

sd 60 sd 70 sd 90

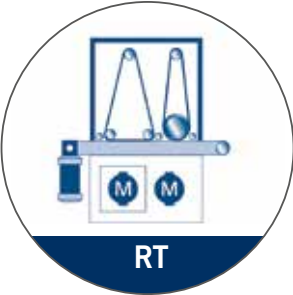


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Example of RRCS machine version

OPERATING UNITS

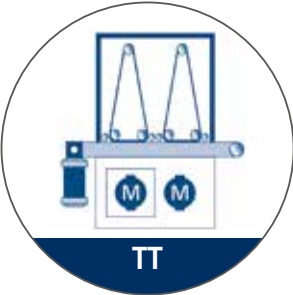
AVAILABLE VERSIONS



RT VERSION

It grants high flexibility and productivity as well as top finishing in one single pass due to the superfinishing unit.
Excellent for all “typical” processing of solid wood, veneered panels and the sanding of the basecoat.

sd 90



TT VERSION

For all processing of panels with basecoat that require a high level of finishing. It can be achieved with the superfinishing unit.

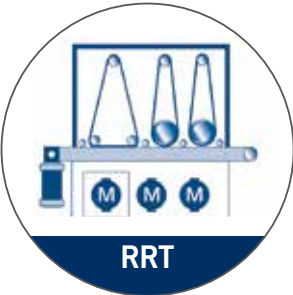
sd 90



RCST VERSION

This version, available with the superfinishing unit, is perfect for both calibrating and sanding operations of large dimensioned panels. In the furniture sector (with veneered and painted panels) it excels in the provision of significant finishing.

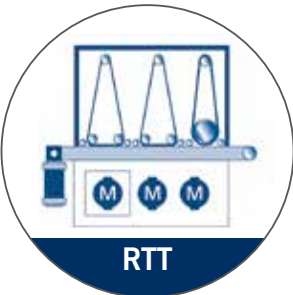
sd 90



RRT VERSION

For all rough, veneered and painted panels processes that need a high level of finishing. Available with the superfinishing unit.

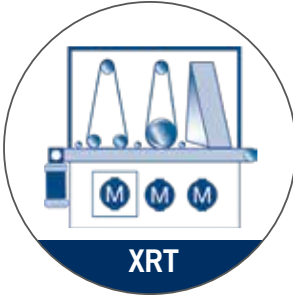
sd 90



RTT VERSION

This configuration is ideal for all sanding processing of painted panels that, due to the superfinishing unit, want high finishing standard.

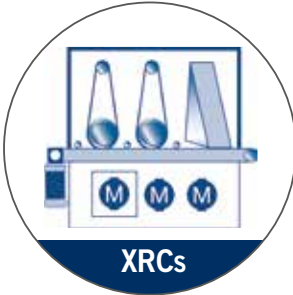
sd 90



XRT VERSION

For all operations on painted panels that need the precision of the electronic sectional pad and the highest finishes up to 1000 grit.

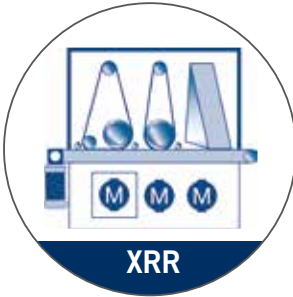
sd 90



XRCs VERSION

For all processing that demand a pre-sanding activity and the precision of the electronic pad.

sd 90



XRR VERSION

For all processing that require pre-sanding activity. Optimal for solid wood applications.

sd 90



Example of XRT machine version

OPERATING UNITS

CALIBRATING/SANDING ROLLERS



Rollers are available in different diameters from 120 to 320 mm, both in grooved steel and rubber coating option for any requirement.

sd 30 sd 60 sd 70 sd 90

RUBBER-COATED ROLLER

The wide range of hardness (from 85 to 20 sh) enables the roller to obtain excellent results from the most aggressive sanding to the most delicate operations on veneered and painted panels.

GROOVED STEEL ROLLER

It provides the maximum precision on heavy calibrating operations, even on wood with a differentiated grain and knotted solid wood.



Diameter	sd 30	sd 60	sd 70	sd 90
120 mm	•			
140 mm		•	•	
160 mm		•	•	
175 mm		•	•	•
250 mm		•	•	•
320 mm				•

OPERATING UNITS

MULTIFUNCTIONAL DRUM UNIT

MULTIFUNCTIONAL DRUM UNIT: FLEXIBILITY AND PRODUCTIVITY

The multifunctional drum unit allows to execute various types of processing requirements, from calibration to sanding operations on solid wood, raw, veneered and polished panels by simply change out the rubber lining with one of different hardness.

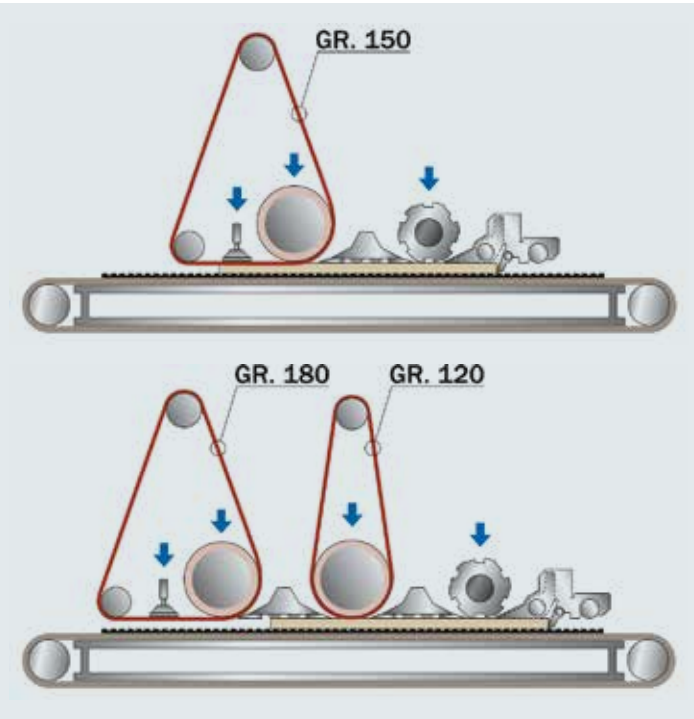
With a single operating unit, the same results are obtained as with a multi-operating unit machine, with a twofold advantage: reduced dimensions that make it perfect to be positioned even in the narrowest spaces, and machine down-time reduction due to the drums maintenance operations.

sd 90



WORKING UNITS

PLANER UNIT



PLANER UNIT

One single pass to perform heavy material removal with low power consumption; a degree of finish comparable to the one obtained with the use of 4 abrasive belts due to the helicoidal positioning of the knives mounted on the unit.

The easy access allowed by the exclusion of the infeed rollers simplifies maintenance operations (option). The anti-kickback fingers, the heavy sectional bar and the micro switch for too thick components set on the pressure roller, makes it absolutely safe when employing the HPL planer unit, even for an unskilled operator.

sd 60 sd 90



“HPL” PLANER UNIT: MAXIMUM REMOVAL COUPLED WITH MAXIMUM SAVINGS

After planing, the surface of the panel needs only a slight degree of finishing. This can be done with a 150 grit sanding belt using a single operating unit or a 180 grit sanding belt using two operating units.

sd 60 sd 90



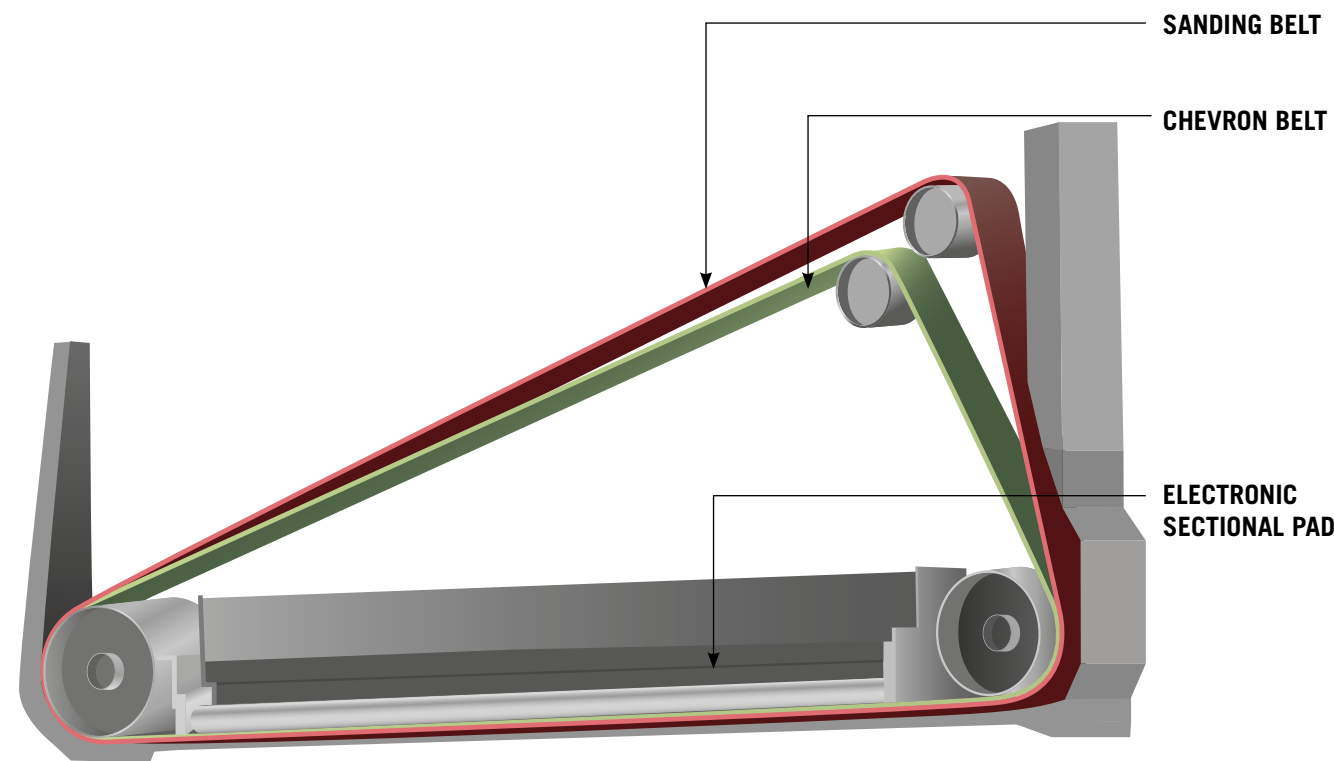
OPERATING UNIT

CROSSBELT UNIT

CROSSBELT UNIT: AN EXCEPTIONAL FINISH IN SYNERGY WITH THE SANDING OF ROLLER UNIT OR SUPERFINISHING UNIT

The crossbelt sanding unit can be used as a setup unit for a following sanding operation, such as adhesive paper or filler removal, or as a final unit for the sanding of painted surfaces that require a high-quality finishing (polished or opaque effects). The high-performance of the crossbelt unit are guaranteed by the electronic sectional pad, the 5000 mm belt length and from the cleaning system for a longer lifespan of belt and finishing uniformity.

sd 90



OPERATING UNITS

SUPERFINISHING UNIT

SUPERFINISHING UNIT: HIGH-QUALITY PROCESSING

Uniform finish with the chevron belt which improves the cooling of the abrasive action on the work piece and the copying capacity of the “MESAR” electronic pad.

The unit is particularly suitable for the superfinishing of solid wood components, MDF panels that have been laminated, veneered or painted (opaque and polished). It is the ideal choice for all companies that require the highest finishing level on “hi-gloss” panels.

sd 90



WORKING UNITS ON THE OUTFEED

dmc sd range
automatic wide belt sanders



BUFFING UNIT

It provides a perfect finish and a smooth panel surface before final painting.

sd 60 sd 70 sd 90



STRUCTURING UNIT

It gives the panel a rustic or weathered look, particularly recommended for period furniture.

sd 60 sd 70 sd 90



WORKING UNITS ON THE OUTFEED

BRUSHING UNIT

The GSI interchangeable brushing unit has been designed to meet the flexibility and production versatility needs of small and medium sized manufacturers. The unit, thanks to the oscillation system and the tools diameter of 200 mm, can use: grain evidencing steel or tynex rollers, sanding rollers with abrasive strips for brushing, Scotch-Brite abrasive cloth rollers for the finish on paint, or cleaning rollers. Tool changeover takes a maximum of five minutes for unskilled operators.

sd 60 sd 70 sd 90



OTHER DEVICES

FLOATING PRESSURE SHOES

The best finishing of solid wood. The particular design of the pressure shoes greatly reduces the centre-to-centre distance during sanding. This feature guarantees a higher but more uniformly distributed hold-down pressure when calibrating solid wood with high stock removal and the sanding of short, narrow and uneven components.

sd 60 sd 70 sd 90

dmc sd range
automatic wide belt sanders



ROTATING BLOWERS

The rotating blowers gently remove dust from sanded components. To reduce the consumption of compressed air to a minimum, the unit operation is timed and the blowers only operate when a component is present in the machine.

sd 60 sd 70 sd 90



LED INDICATOR FOR PANEL INTRODUCTION

Simple and intuitive, communicating to the operator where and when the panel has to be introduced into the machine and optimising the standard wear of the sanding belt; this ensures a better quality finish and reduced machine costs.

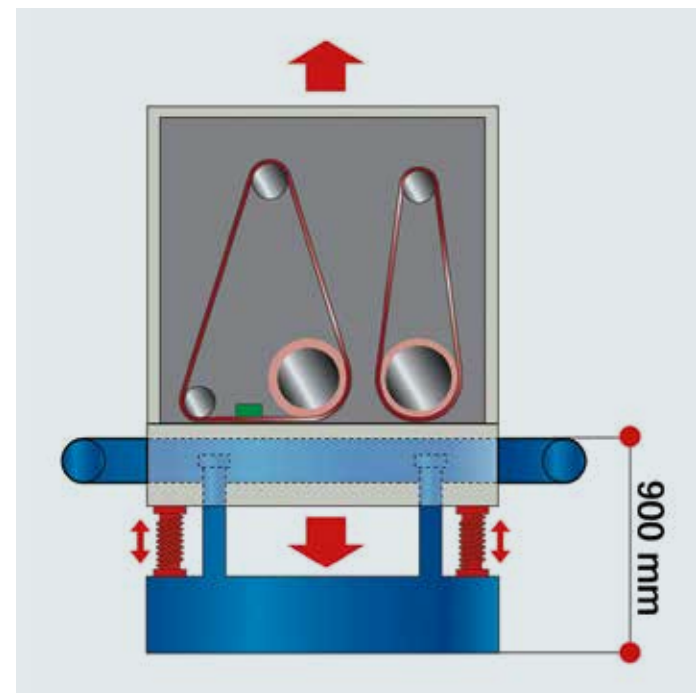
sd 30 sd 60 sd 70 sd 90



AUTOMATIC FEED BELT CENTERING

An electro-pneumatic system keeps the feed belt on track, perfectly centred and tensioned at all times. The system is automatic and no operator intervention is required.

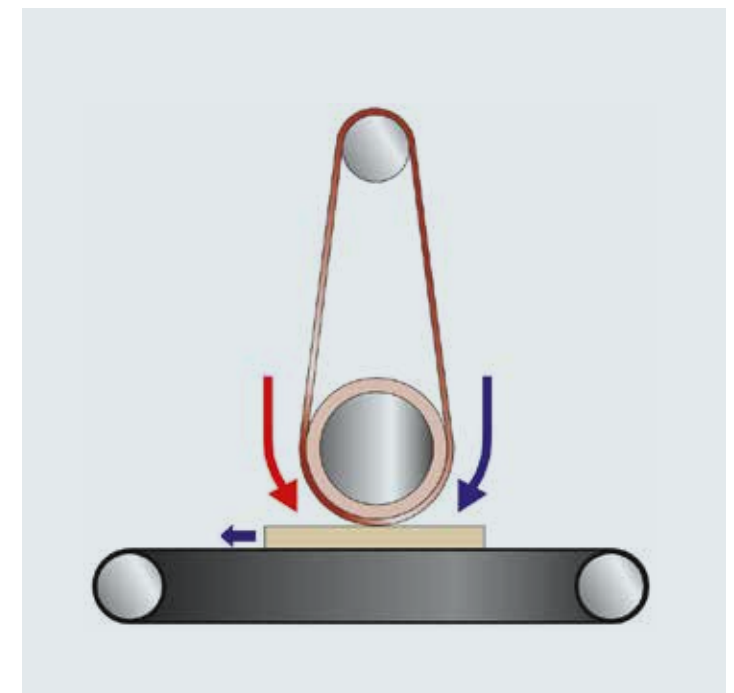
sd 30 sd 60 sd 70 opt. sd 90



WORKTABLE AT FIXED HEIGHT

Ease of use. The version with 900 mm fixed height worktable allows the roller conveyors or belt transfer units to be positioned at the machine infeed and/or outfeed, to facilitate the machining of long and heavy work pieces.

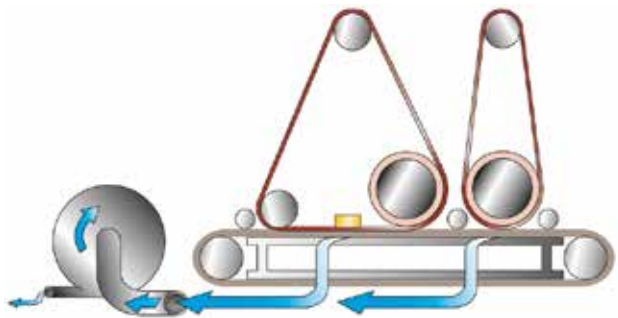
sd 70 sd 90



REVERSE ROTATION OF THE SANDING BELT

Ideal for the water-based paints. With dedicated exhaust hoods this is the perfect solution for solid wood pre-sanding as it removes any fibers that remain following calibration.

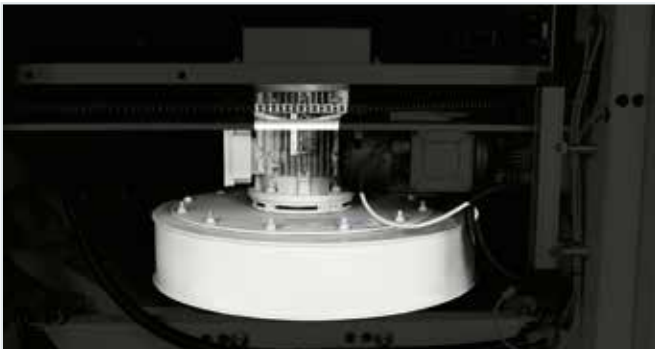
sd 60 sd 70 sd 90



VACUUM TABLE WITH DIAMOND-SHAPED BELT

No slipping of the work piece. The best traction surface and the maximum stability for the panels are provided by the special geometry of the diamond-shaped profile of the transport belt.

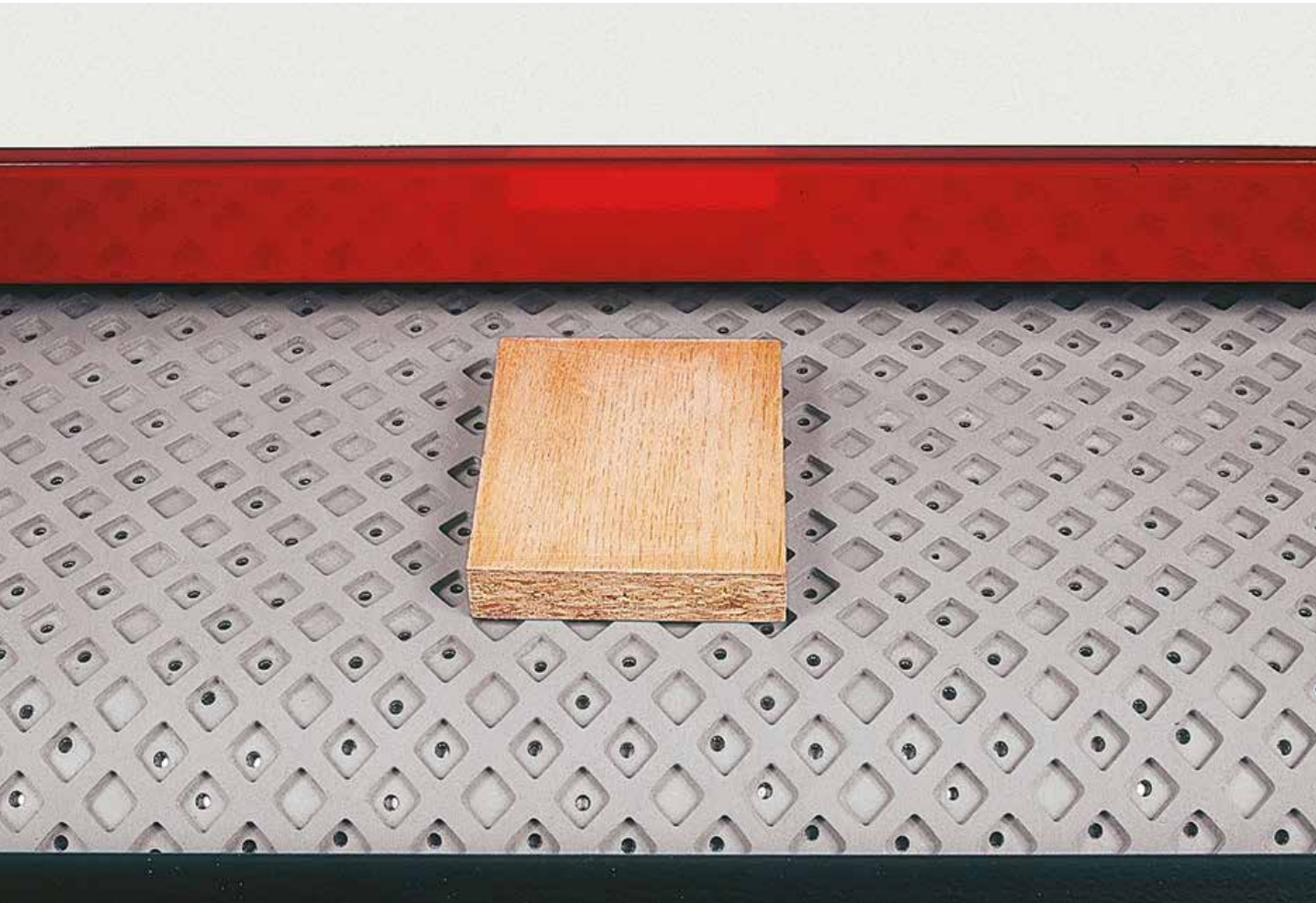
sd 60 sd 70 sd 90



INTEGRATED ELECTRO-FAN, GIVING EXTREME COMPACTNESS

Reduced overall dimensions and noise emissions with the fan positioned under the work table.

sd 70 sd 90



BELT OSCILLATION CONTROLLED BY AN ELECTRONIC PHOTOCELL

This precision control system ensures the maximum uniformity in belt oscillation: this reduces the risk of belt breakage and improves finishing quality.

sd 30 sd 60 sd 70 sd 90



TIMED OSCILLATING BELT CLEANING BLOWER

Electronically controlled timing and only when a component is present in the machine guarantees reliability over time and reduces compressed air consumption to a minimum. Particularly advisable when machining painted work pieces.

sd 30 sd 60 sd 70 sd 90

MACHINE CONTROL



10" EYE-S CONTROL PANEL WITH MAESTRO ACTIVE S: EASILY AVOIDING MISTAKES

Simple and intuitive, allowing to manage the machine in manual mode or with working programs which can be configured by the operator. The possibility to store up to 999 work programs to retrieve the machine settings most commonly used makes it ideal even for unskilled operators.

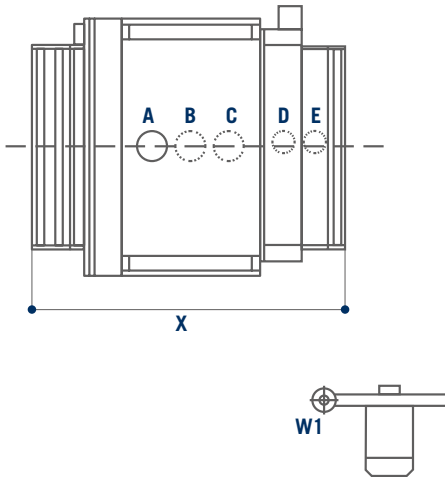
sd 30 sd 60 sd 70 sd 90

STANDARD EQUIPMENT AND OPTIONS

		sd 30	sd 60	sd 70	sd 90
Working width	mm	950	1100	1350	1350
		1100	1350		
Abrasive belts length	mm	1900	2150	2620	2620
Main working units		1-2	1-2-3	2-3	1-2-3
Max. motor power (50 hz)	kW	18,5	18,5	18,5	20
Independent motors		-	opt	opt	opt
Roller diameter (CS unit)	mm	140	160	160	175
Roller diameter (R unit)	mm	120	140	160	175
			175	175	220
			250	250	250
					320
Multifunctional drum unit		-	-	-	opt 250
Planer Unit (HPL)	mm	-	opt	-	opt 180
Buffing unit		-	opt	opt	opt
Structuring unit		-	opt	opt	opt
Electronic sectional pad	mm	opt 55	opt 55	opt 55	opt 55
			30	30	30
Crossbelt unit	mm	-	-	-	opt 5000
Brushing unit		/	opt (1350)	opt	opt
Vacuum table		-	opt	opt	opt
Fixed table		-	-	opt	opt

TECHNICAL DATA

dmc sd range
automatic wide belt sanders



HOODS DIAMETER

		dmc sd 30	dmc sd 60	dmc sd 70	dmc sd 90	
		95-110	110-135	135	135	Working width
A	mm	140	160 - 195	195	195	First unit
B	mm	140	160 - 195	195	195	Second unit
C+	mm		160 - 195	195	195	Third unit
D	mm		160	160	160	Operating unit
E	mm		160	160	160	Rotating blowers
W1	mm		-	150	150	Internal vacuum
W2	mm		66* - 150 **	-	-	External vacuum

* with silencer
** without silencer

MACHINE DIMENSIONS

		dmc sd 30	dmc sd 60	dmc sd 70	dmc sd 90	
		95-110	110-135	135	135	Working width
X	mm	1820	1920	1920	2190	Version with 1 or 2 working units
X	mm	-	2190	2190	2580	Version with 3 working units
Y	mm	1500-1650	1650-1900	1900	1900	Machine width
Z	mm	1960	2090 - 2135	2390	2390	Machine with mobile table
Z	mm	-	-	2493 - 2693	2493 - 2693	Machine with fixed table



POWER ONLY WHEN IT IS REQUIRED

SavEnergy allows the use of power only when it is required, making things operate only when they are really necessary. It means the machine automatically enters "stand-by" mode when there are no panels to be machined.

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV
= ISO 9001 =

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 prescribed by CE Norms.



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 SERVICE AND MAINTENANCE • Remote support • Scheduled maintenance contracts • Warranty extension	 TRAINING SERVICE • Courses for machine operators • Software and programming courses • Training in production start-up
 SPARE PARTS • Recommended spare parts list • E-shop • Interactive spare-parts catalogues • Repairs on electronic parts, glue tanks and electro-spindles	 DIGITAL SERVICES • Maestro Connect - IoT platform to be constantly connected with your machines • Smartech - assistance with augmented reality • My Scm portal - opening of service ticket and single point of access to the apps and Services tools

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THE STRONGEST WOOD TECHNOLOGIES ARE IN OUR DNA

SCM. A HERITAGE OF SKILLS IN A UNIQUE BRAND

70 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.

70 years history

3 main production sites in Italy

300.000 square metres of production space

20.000 machines manufactured per year

90% export

20 foreign branches

400 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		INDUSTRIAL COMPONENTS			
Stand-alone machines, integrated systems and services dedicated to processing a wide range of materials.		Technological components for the Group's machines and systems, for those of third-parties and the machinery industry.			
					
WOODWORKING TECHNOLOGIES	TECHNOLOGIES FOR PROCESSING COMPOSITE MATERIALS, ALUMINIUM, PLASTIC, GLASS, STONE, METAL	SPINDLES AND TECHNOLOGICAL COMPONENTS	ELECTRIC PANELS	METALWORK	CAST IRON