



STRUCTURING
MACHINE

WHO WE ARE



From an important **group...**

Since more than 40 years, Ecoenerg operates in the electronic field, both civil and industrial. It deals with the production of civil and industrial electrical Systems / Automation / Home automation / VMC equipments / Hydraulic and Heating systems / Civil construction / Sustainable construction / Lighting industry (innovative technologies for energy saving) / Industrial automation / Control panels and cabins / Management and supervision of industrial plants and Building Automation / Software and systems for process control and production management / Techniques and solutions for energy efficiency (existing buildings) / Photovoltaics / Biogas / Biomass cogeneration.



... a great **expertise.**

Established in 2014, ECOLINE is a young company whose engineers and technicians are skilled in the sanding, brushing and finishing of wood surfaces since decades. The joint venture with ECOENERG ensures stability and resources, along with the expertise of our team.

Our technicians are highly specialized in providing technology to all those companies operating in the carpentry field or the aluminium, plastic and other composite materials processing, whether they are small artisans or large industrial groups.

Our technology, protected by more than ten granted patents, makes us leader in our field; we are able to produce Woodworking Machinery using standard technology as well as fully customized projects.

We are a reference all over the world for our customers thanks to our commitment in research.

Using the best materials available on the market, we combine mechanical steadiness and high industrial automation technology that means "reliability and long lasting performances".



PATENTED TECHNOLOGY



LEADER OF TECHNOLOGICAL INNOVATION



SERVICE AND PARTS



QUALITY AND DURATION MADE IN ITALY



ENERGY SAVING



SAFETY AT WORK



LABOR SAVINGS

INFORMATION GENERAL

RUSTIK MAT

Professional work.

THE STRUCTURING MACHINE LINE RUSTIKMAT HAS BEEN CONCEIVED TO STRUCTURE THE WOOD SURFACES. IT REPRESENTS THE IDEAL SOLUTION FOR THOSE WHO NEED A HIGH QUALITY RESULT.

The machine bed is made out of steel in order that rigidity and stability should be ensured. The infeed belt is made of 3 layers with high grip. The advancement speed is inverter controlled from the machine console. Digital visualization of the parameters. The machine is open on one side. This feature makes possible to work pieces with width until 1200 mm. Safety protections on all sides.

THANKS TO THE FULL INVERTER PILOTING OF ITS AXES THIS MACHINE CANNOT ONLY STRUCTURE BUT ALSO SAND WOOD SURFACES IF THE STRUCTURING BRUSHES ARE REPLACED WITH SANDING ROLLERS EQUIPPED MADE WITH LAMELLAS.



COMPOSITION OF THE BRUSHING MACHINE

Rustikmat has many equipment possibilities. It can also sand thanks to the easy change of its structuring brushes with lamellas brushes.

The shafts of the brushes lay on both sides on the machine bed, therefore the machine works without vibrations also when high pressures are applied to get a deep structuring of the surfaces.



HORIZONTAL BRUSHES



2 horizontal brushes \varnothing 270 mm can be out of steel wires or plastic wires of different hardness. The 4 kW motor for each brush ensures a high effort to go deep. The inverters make possible an unlimited range of structuring results. All parameters as infeed speed, work thickness, brush rotations are regulated electronically on the machine pulpit. All parameters are shown on digital panels.



DISC BRUSHES



6 disc brushes \varnothing 200 mm, 1,5 kW each. The rotation is inverter controlled. The oscillation that these brushes have, makes possible a perfect sanding result when such brushes are used to sand profiled panels. The disc brushes are installed on an extractable trolley which makes very easy the change of these brushes with steel wire disc brushes.



SWITCHBOARD

The operating of this machine is easy and fast at the same time.

The regulation of the infeed speed and of the rotations is made through the switchboard.

The chosen parameters appear on digital panels.

ECOLINE SYSTEM

TAILOR MADE ACCESSORIES

Brush with abrasive lamellas. It is made of singularly changeable lamellas. This makes possible to sand with a structuring machine.

In this machine can be installed also a sending roller. Such roller is made of a soft foam that absorbs the irregularities of the wood surfaces. The sanding paper is changed rapidly thanks to the Velcro equipment.

An additional air blowing device can be also installed in case it is needed.

The air blowing frequency is controlled through electro-valves.

Trolley for the extraction of the aggregates supported from cemented rollers.

The big diameter of the brush increases the life duration of it and maintains a low electro-static level also when it rotates with high rpm.

The big diameter ensures also a low level of its wearing. Each brush can be set with a different level pressure during its work.

A set of rollers at the machine entrance and exit increases the laying surface of the work-pieces.



Ecoline

WOOD TECHNOLOGY



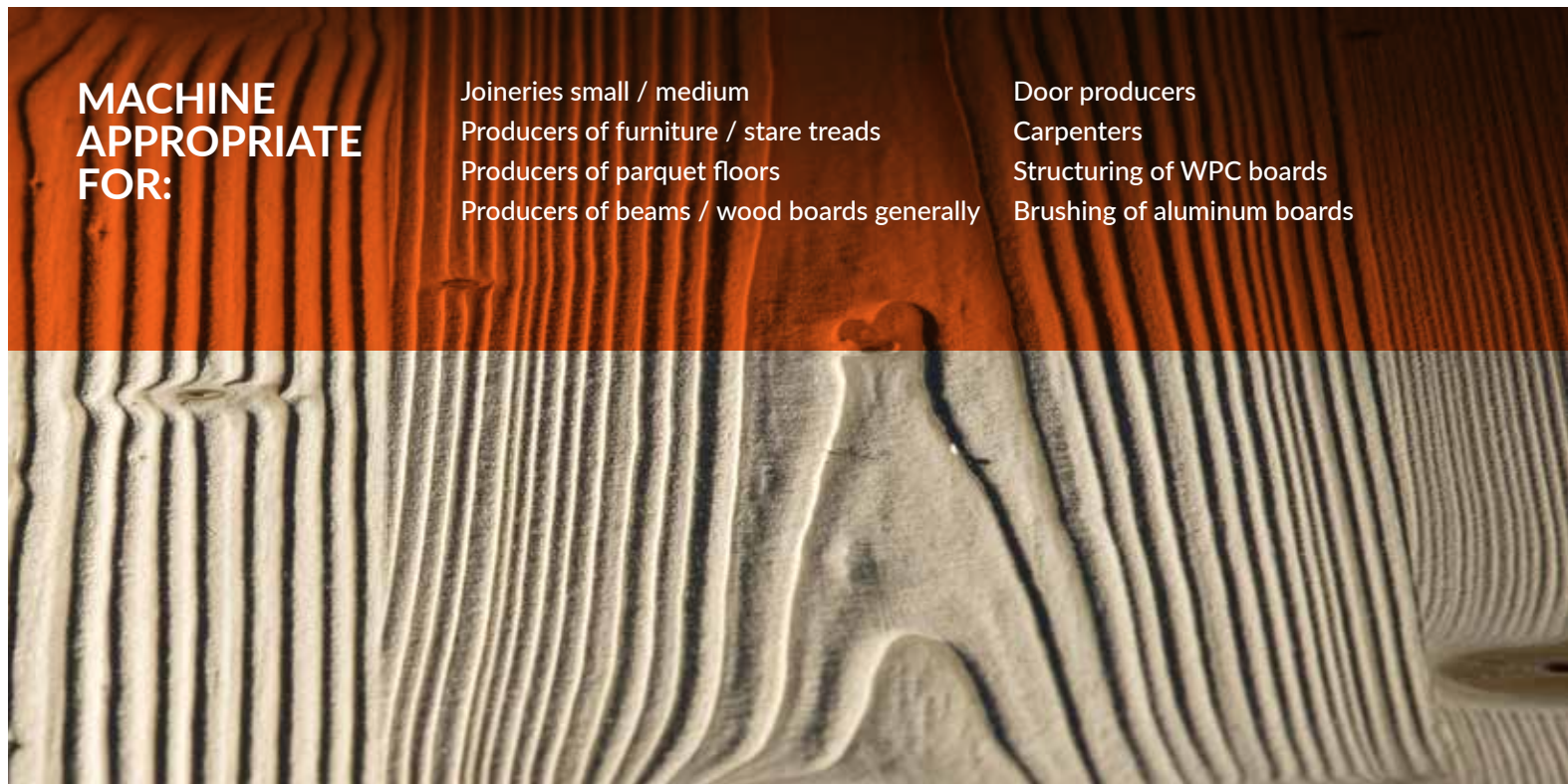
RUSTIK MAT

Model		600	1000
Machine dimensions	cm	height 1840/ length 1900 / width 1800	height 1840/ length 1900 / width 1500
Maximum thickness		500	500
Minimum length	cm	500	500
Brush diameter	cm	270	270
Maximum width	mm	600	1000
Aspiration mouths		n° 2 / Ø 140	n° 2 / Ø 140
Infeed belt		from 1 m/min to 10 m/min	from 1 m/min to 10 m/min
Aggregates lift		electric with digital visualization	electric with digital visualization
Thickness of the work-piece		digital visualization	digital visualization
Motor power	kW	4	5,5
Tension	V	400	400
Protection degree of the switchboard	IP	55	55
Maximum rotations / optional inverter	rpm	900	900
Weight	kg	900	1300

MACHINE APPROPRIATE FOR:

Joineries small / medium
Producers of furniture / stare treads
Producers of parquet floors
Producers of beams / wood boards generally

Door producers
Carpenters
Structuring of WPC boards
Brushing of aluminum boards





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