

**STANDARD**

# M3300

VERTICAL  
WASHING MACHINE  
3300 / 6 BRUSHES

**EMAR**  
— GLASS —

00331



# M3300



Mod. **M3300**

**VERTICAL WASHING MACHINE  
STANDARD 3300 / 6 BRUSHES**

- The double-glazing washing machines adopt a modular concept which can be adapted to the needs of the individual customer.
- Composed of 4 m entry and exit modules, the transportation of the glass takes place via a system of anti-cut rollers with frictioned components to increase operator safety.
- The washing machine body is in powder-coated stainless steel and is 3.2 m long.
- All components in contact with water are corrosion resistant.
- The machine is equipped with 6 independent brushes with a diameter of 180 mm with stainless steel shafts and aluminum supports.
- The water management unit is made up of 4 washing areas with tanks, pumps, filters and internal parts in stainless steel.
- Thanks to the shape of the tanks, water consumption has been reduced to a minimum reusing wastewater from one sector to another.

# M3300

- *The heating system controlled by a thermostat is standard on the entire range.*
- *A fan for drying has been installed in an insulated box to reduce noise with a damper to manage the air flow allowing for greater energy saving during processing stops.*
- *The working speed is adjustable and controlled exclusively by an electronic system that maintains the torque constant even with different weights.*
- *The output module is equipped with a new system of LED lights without interruption to allow better control of the washing quality, the transportation of the glass takes place via a system of anti-cut rollers, mounted on frictioned components to increase operator safety.*
- *The machine has been set up for connection to other work modules.*

# M3300

## ***ALWAYS CONNECTED***

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All automatic lines can be connected permanently to our monitoring centre simply by connecting the line to the internet, with the following advantages:

- Possibility of remote troubleshooting
- Reduction of machine downtime
- Instant control of the aging of electronic components
- Possibility of excluding sensors to be able to continue production while waiting for a replacement (provided it does not compromise the operator's safety).





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## TECNICAL SPECIFICATIONS

Power supply	400 Vac 3-phase + Neutral 50 Hz
Total consumption	24 kW 400 Vac 50 Hz
Fan Motor	11 kW 400 Vac 3-phase 50 Hz
Washing brushes	6 independent brushes of 180 mm
Water pumps	4 pumps, one per washing area
Hot water resistance	4,5 kW 400 Vac 3-phase 50 Hz
Washable glass measurements	Min 500 x 300h mm approx Max 4.000 x 3.300 h mm
Washable thickness	From 3 to 24 mm auto self-adjustable
Work direction	From left to right
Working speed	From 1 to 5 m/minute
Work surface	650/750 mm approx
Height	4.400 mm approx
Length	13.300 mm approx
Width	2.500 mm approx.
Weight	5.600 kg approx

We recommend that water supplied to the washing machine has the following characteristics:

:	
Conductivity	= less than 10 uS (microSiemens)
Hardness total	= less than 5° F (gradi Francesi)
Salt content	= less than 5 mg/L
Chloride	= less than 5 mg/L
Iron	= less than 0.05 ppm
Turbidity	= less than 0.5 ftu

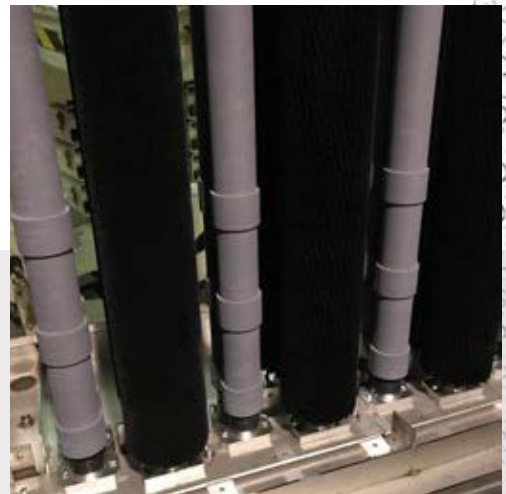
NB. If the water values are higher than those recommended the glass washing results may be compromised. If necessary, upon request we can provide equipment for cleaning the water.

# M3300



## WATER RECOVERY

Water is a precious resource - The washing system, ECO WATER, allows a double reuse of water avoiding unnecessary waste while maintaining optimal quality at the end of the process.



## LONG-LIFE

Attention to durability over time is synonymous with quality - All parts of the machine in contact with water are made of powder-coated stainless steel, brush supports and tows in aluminium, pipes in stainless steel, and brass spray nozzles.



## ENERGY SAVING

Consumption is significantly reduced during processing thanks to a system which reduces motor consumption while maintaining the air flow active.

# M2500



## SAFE TRANSPORTATION

The safety of the operator is fundamental, but the glass must be moved for processing. The system adopted allows the glass to be blocked at any time with the rollers moving. All this thanks to an innovative type of transportation.



## EASY MAINTENANCE

Thanks to the type of construction, maintenance and cleaning are convenient, easy and quick.



## NOISE REDUCTION

A fan for drying has been installed in an insulated box to reduce noise with a damper to manage the air flow, allowing for greater energy saving during processing stops. The cleanness of the air is guaranteed by a removable filter.



# M3300



## CONTROLLED OPENING

Machine body opening system controlled by an electrical system which guarantees perfect parallelism over the entire height of the machine.



## INDEPENDENT BRUSHES

The washing zone is equipped with 6 completely independent brushes managed by inverters for more uniform rotation control while maintaining the working torque constant.



## TOUCH-SCREEN COMMANDS

The EASY TOUCH control panel is simple and intuitive and allows the operator to manage the entire line and control all the parameters of the machine. Thanks to this system the machine can be connected to our headquarters for maintenance and any machine downtime resolutions.

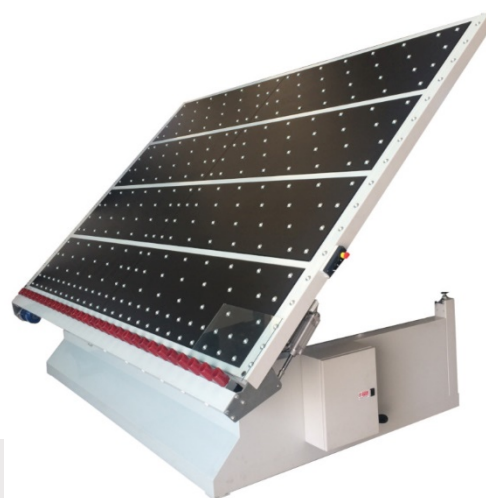
# M3300

## OPTIONALS



### LOW E BRUSHES

These type of brushes use special bristles that allow you to work with more delicate glass. They are complete components with a stainless-steel shaft.



### TILTING EXIT

3 m folding output module operated by a jack controlled by an electronic inverter. The module can be used both as a fixed storage and a sealing table.

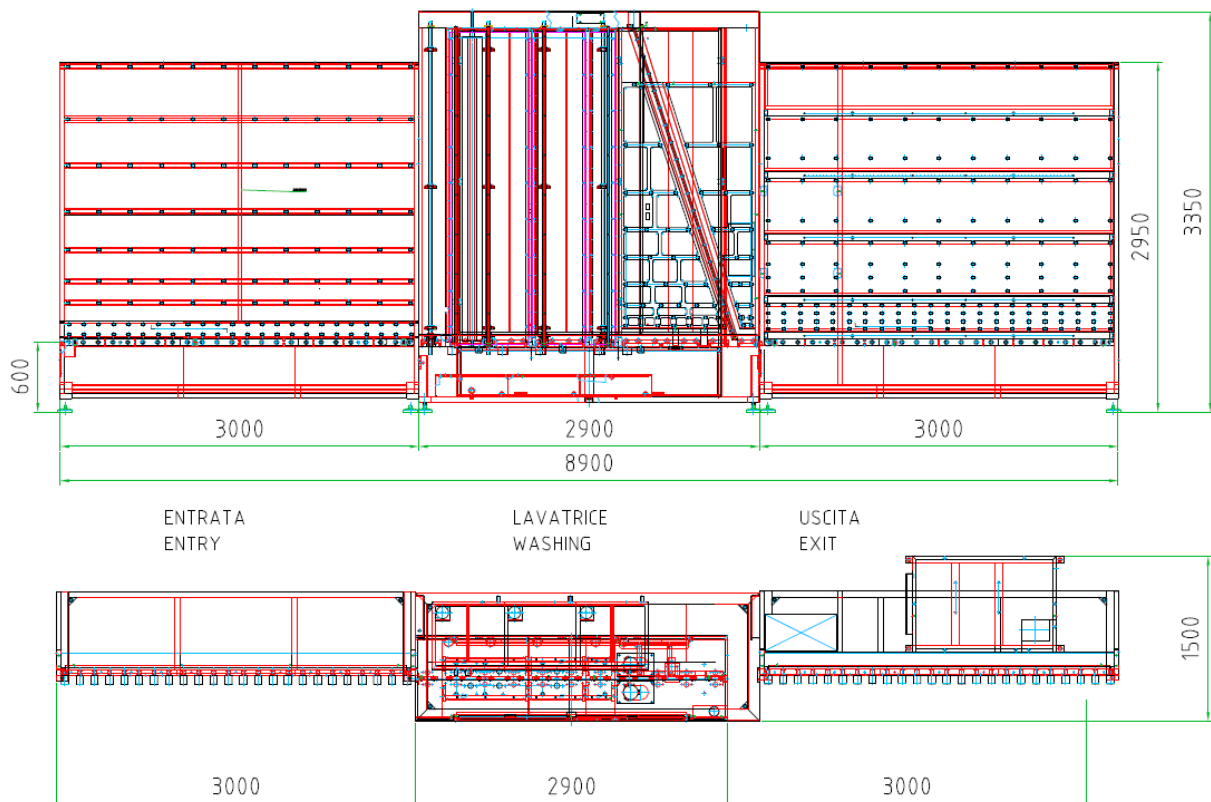


### PLUG-IN INTERCONNECTION

Thanks to the modular construction system it is possible to adapt the machine to all customer needs using interconnection systems that can communicate with most other machines on the market.

# M3300

## LAYOUT





GLASS WORKING EQUIPMENT

[www.emarglass.it](http://www.emarglass.it)

