



# EMAR S.R.L.

## GLASS WORKING EQUIPMENT

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### SEMI-AUTOMATIC WASHING LINE FOR GLASS

*Mod. M 2001E*

VOLTAGE	: 400 Vac 3 Phase+Neutral 50 Hz.
TOTAL ABSORBED POWER	: 20 Kw. 400 Vac. 50 Hz.
VENTILATOR MOTOR	: 4 Kw. 400 Vac. 3 Phase 50 Hz.
HOT WATER RESISTANCE	: 1.5 Kw. 230 Vac.
WASHABLE GLASS DIMENSIONS	: Minimum about 350 x 250 h. mm. : Maximum about 2900 x 2000 h. mm.
GLASS WASHABLE THICKNESS	: From 3 to 14 mm. self-adjustable
ROLLER PRESS THICKNESS	: about 50 mm
WORKING DIRECTION	: From left to right
WORKING SPEED	: 4 mt/min
WORKING PLANE HEIGHT	: 600 mm. about
HEIGHT	: 2.800 mm. about
LENGHT	: 14.000 mm. about
WIDTH	: 1.200 mm. about
WEIGHT	: 3.000 Kg. about

Composed as follows:

- 01 Entry with a length of 2 mt. , 2 mt. height with clutched anticut vulcollan rollers, mounted on bearings and bushing . Protections against access to the dangerous parts of the machine according to the EU norms.

*INCLUDED*



- 01 Washing machine with a length of 2 mt and height of 2 mt. Composed by 4 brushes diameter of 120 mm. with steel shafts, complete with two tanks with pumps, filters and internal in stainless steel. Heating water to 1.5 kW. Blower included in an insulated boxafono. Speed 4 mt per min.. The washer is open on the top. System of protection against access to dangerous parts of the machine according to European standards

*INCLUDED*

Optional low-e brushes  
Optional motorized entry

*NOT INCLUDED*  
*NOT INCLUDED*

- 01 Motorized exit with a length of 3 mt. and height of 2 mt., with clutched anticut vulcollan rollers, mounted on bearings and bushing. This module has a motor complete of reducer . Inspection glass control lights , stop-glass sensors . Protections against access to the dangerous parts of the machine according to the EU norms.

*INCLUDED*



- 01 Motorized assembling station with a length of 3 mt. and height of 2 mt. , with double clutched anticut vulcollan rollers, mounted on bearings and bushing. This module has a motor complete of reducer. Inspection glass control lights , stop-glass sensors. Hydraulic system of positioning of the frame with a considerable precision. Everything is controlled by sensors that automatically recognize the glass thickness, so the operator doesn't have to regulate anything manually, but in the same time can work with different glass thickness. Acoustic and luminous indicator as requested by CE rules. Mechanical stop-glass block system to obtain a maximum precision during the working process. Protections against access to the dangerous parts of the machine according to the EU norms.

*INCLUDED*

Optional automatic system for triple glass

*INCLUDED*



- 01 Roller press 1 mt long. having an height of 2 meters. with double friction rollers resistant to attack vulcollan, mounted on bearings and bushings, this module has an engine complete with gearbox. sliding system of the front roller mounted on ball bearings. Movement by pneumatic pistons in material treated with bushings. Sensors for reading the glass for better processing, electronic speed handling. The machine can be adjusted by the operator to vary the thrust of pressing. Thermal control of the motors. Emergency stop button with safety control unit for the block of all the moving parts. Speed controlled by PLC to optimize the processing times. All commands are in contact with the operator in safety low voltage. Protection against access to dangerous parts of the machine according to European standards.

*INCLUDED*

- 01 Motorized exit with a length of 3 mt. and height of 2 mt., with clutched anticut vulcollan rollers, mounted on bearings and bushing. This module has a motor complete of reducer , stop-glass sensors . Protections against access to the dangerous parts of the machine according to the EU norms.

*INCLUDED*



Optional hydraulic tilting table system

*NOT INCLUDED*

Recommend the feed water of the washing machine having the following characteristics:

Conductivity	less than 10 uS (microsiemens)
Total hardness	less than 5 ° F (French degrees)
Salt content	less than 5 mg / L
Chloride	less than 5 mg / L
Iron	less than 0.05 ppm
Turbidity	less than 0.5 ftou

If the water values are higher than our advice, the final result of glass cleaning can be compromised.  
If necessary, on request, we can provide the equipment for water cleaning.