

PRELIMINARY TECHNICAL DATA

WORKPIECE DIMENSIONS

The line will obtain the best quantity-quality results, under any work conditions, if defective pieces are eliminated right from the start, for example:

- ◆ curved or twisted pieces
- ◆ splintered pieces that would in any case not be reusable after coating
- maximum length **3000** mm.
- minimum length **400** mm.
- maximum width **1800** mm.
- minimum width **200** mm.
- maximum thickness **25** mm.
- minimum thickness **3** mm.
- max bow **1** mm.
- minimum temperature **-5 °C**
- working speed **[0,8÷2]** m/min

VOLTAGE

• 400	V
• 50	Hz

Neutral	Present
3 phases	Present
Electrical equipment	ADPE
CE rules	Of machine

COMPRESSED AIR SUPPLY

- pressure **6 bar max.**

MACHINE COLOR

- **RAL 7035**

LINE SERVICE SIDE

• RIGHT	x
• LEFT	
• MIXED	

WORKING CONDITIONS

PRODUCTION SECTOR

- GRAPHICS

MATERIAL

- Glass
- Plastic
- Aluminium
- Composite panels

TRADE PRODUCT

- Tiles and interior coverings
- Personalized interiors for hotels

SHAPE

- Flat panel

TYPE OF STAINS/LACQUERS

- SOLVENT BASED

FINISHING

- Clear
- Pigmented

PRICES

ITEM	DESCRIPTION	AMOUNT €
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1 TVR18 01: ROLLER CONVEYOR W=1800MM

ROLLER CONVEYOR TVR18/2000

Roller conveyor, with forward motion by means of gear motor inverter controlled.
Motion transmission to the rollers by tangential chain.

Speed 0,35 ÷ 6,1 m/min

PVC coated rollers:

- Diameter 66 mm
- Pitch 125 mm



Side structure (on the service side) lower than rollers level, to facilitate loading and unloading of the glass sheets.

Working width 1800 mm

Length 2000 mm

Installed electric power 0,37 kW

Electrical equipment

Inverter to control and manage.

Independent control board, for 1 conveyor.

2 **MITO-K 18G: OSCILLATING SPRAYING MACHINE MITO-K18G**

AUTOMATIC SPRAYING MACHINE MITO K 18G



The automatic spraying machine is particularly suitable for employing organic paint; this system allows an easy application of ceramic paints, without granting the absence of product on the edges.

The spraying cabin is pressurized, with large lateral glass door

surfaces, opening for an easy access to the guns group and internal lightening by lamps.

The pressurization is ensured by fans, with filtering system at the intake and at the outtake. The forced air flow avoid noisy turbulences, and concentrate the paint powder over the surface to be painted, without diffusing it in area around.

The plenum roofs inclination allows to flush the filtered air in the same spraying direction, by increasing the paint transfer efficiency.



Sheets forward by means of conveyor belt, protected and covered with paper in non-returnable reels, including a winding and unwinding spool's special device. The glass sheets support on the belt grants the overspray absence on the part underneath.

The paper spools are managed by two laterally extractable trolleys, placed underneath the conveyor belt in outfeed.

The floor and the belt are equipped with a vacuum system, that is necessary to maintain the paper perfectly flat.

The oscillating spraying arm, electronically controlled, operates inside the pressurized spraying cabin.

The spraying process is realized through guns placed on an arm, moving transversally, with electronic speed control. The translation, controlled by inverter, is effected on the full working width, with decelerating and accelerating ramp at the ends.



The arm is complete of 2 paint feeding circuits with recycle: 1 low pressure and 1 high pressure.

The spraying arm is provided with fast air compressed connection with pressure regulation, predisposed to be linked to the JIT (FDCC) system for direct application of little quantities of paint (without using pumps and circuits).

The gun' s support is equipped with grafting for paint feeding circuits and 4 gun' s supports with graduated pins, for the correct guns setup; it allows the installation of 1, 2, 3 or 4 spraying guns.

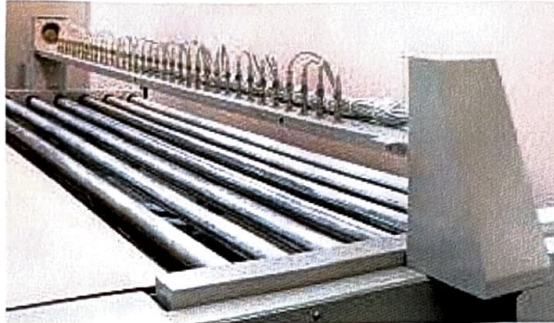
The support unit is easy connectable to the spraying arm through a fast grafting with a locking ring, for fastening eventual guns change or making easier the cleaning.

This system can reach the maximum flexibility by allowing to use any kind of spraying gun with the best application quality in function of the available parameters.

Guns and pumps (making part of spraying equipment) are excluded.

The identification of the correct type of gun and the type of circuit, allows application of both organic and ceramic paints.

Electronic barrier system, equipped with 36 reflex sensors, enables to read the sheets shapes in transit. The detection allows the guns opening only if the workable pieces are coming through, by obtaining high paint economy.



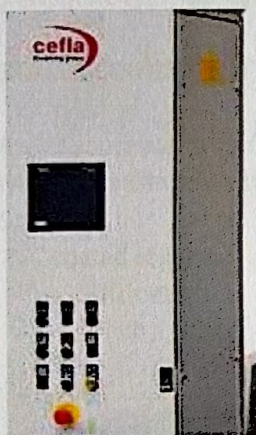
The product not applied on the glass sheets lies on the not-returnable paper: this solution avoid the belt cleaning operations.

In order to avoid paper waste, the conveyor starts automatically only when a transit of glass sheet is detected and stops automatically as soon as the glass sheet is unloaded from the machine.

An overspray suction system, with double series of dry filters, grants the environment protection, by reducing maintenance costs. The filters are easily replaceable and accessible from the lateral doors.

All machine components that come into contact with paint are made of suitable material for an easy cleaning.

Paper spool maximum diameter	500 mm
Paper belt width	1980 mm
Maximum working width	1800 mm
Working height from the ground	900 +/- 40 mm
Forwarding speed	da 1 a 6 m/min
Installed electric power	11 kW
Air mixed with solvents exhausted outside and to be reintegrated in the room	8000 mc/h



Independent electric control board, placed laterally to the machine, complete with PLC with:

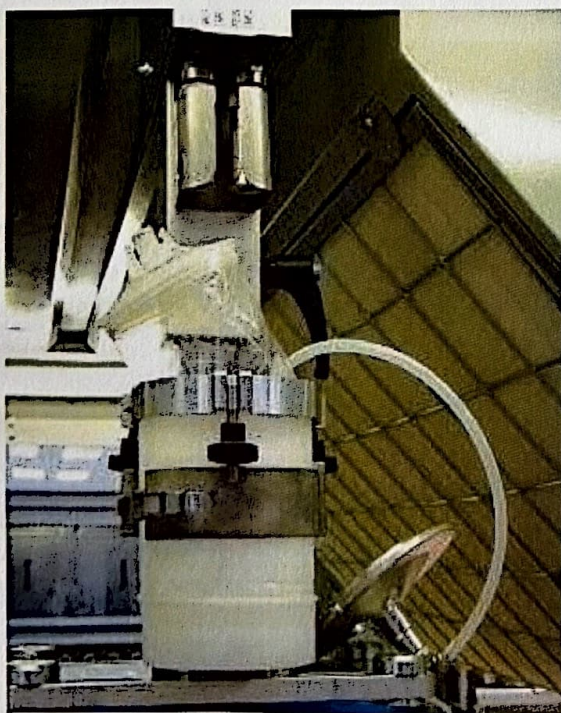
- Touch-screen operator with multicolour display.
- Menu with 99 storable working programs.
- Interactive display of work functions.
- Communication interface for inverters control.
- Independent management of working speeds.
- Failure diagnostics of the machine.
- Statistic memorization of the production data

Wiring system

The exhaust fan flow rate can be manually adjusted in function of filter clogging degree.

ATEX 2G electrical equipment, with flameproof motors.

Plexiglas dust protection transparent cover at the conveyor out-feed side.



JIT (FDCC) - Patented device able to feed 4 pneumatic or HVLP guns with non-returnable cartridges 3M of 850 cc., and feeding by fall.

The container is pressurized through a quick connection of compressed air with adjustment independent from the pressure.

FDCC allows finishing of workpieces small batches, without waste of paints, with short tooling times.

7 **TVR18: ROLLER CONVEYOR W=1800MM**

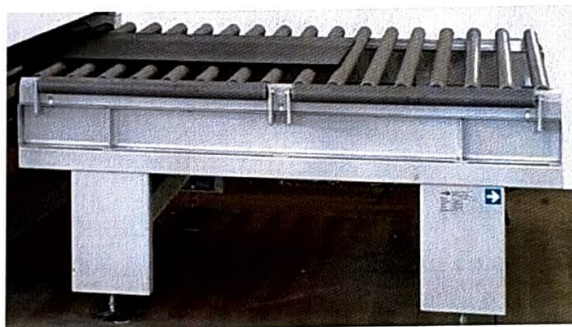
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NOTE: THE LAYOUTS AND THE PHOTOGRAPHS INCLUDED IN THIS ORDER CONFIRMATION ARE ABSOLUTELY APROXIMATE AND NOT BINDING FOR THE VENDOR.