BAVELLONI LAMY 370 S

Cutting table for laminated glass

General description

LAMY is the Bavelloni cutting table designed to cut, open and to detach the laminated glass.

It is ideal for Low-E glasses, since only the glass edges are touched during the cutting cycle.

Main features:

- Automatic management of working parameters
- High precision regulators for cutting pressure adjustment
- High-performance resistance at short waves
- Useful cutting length up to 3.710 mm
- Glass breaking by side pliers
- Ergonomic operating area (single bridge structure)
- Control panel with colour display
- Breaking of the lower edge free from chipping thanks to the special system with roller
- High thickness cutting by specific blade
- PC and optimization software (option)
- Glass sheet trimming up to a few millimetres from the edge (option)

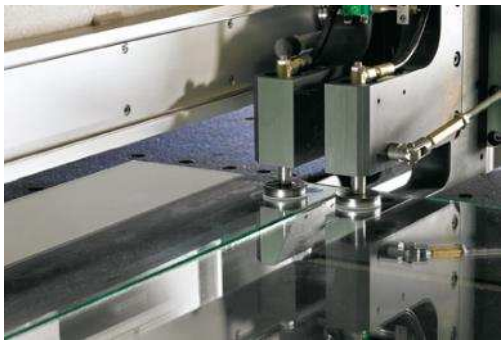
Structure and working plane

The extremely solid and reliable structure consists of a fixed plane in tubular iron covered with an anti-friction carpet. The air cushion is created by two fans, allowing to move easily big thickness glass sheets. The measuring devices are electronically positioned and managed by the control panel. Lamy is equipped with tilting forks driven by an electrical cylinder for unloading

the glass pieces after cutting. The electric drive guarantees the smoothness of the upward and downward movements and it minimizes maintenance.

Cutting, separation and detachment unit
The cutting head has been specifically designed to ensure the maximum smoothness. It is equipped with the following devices:
- automatic reading of the sheet edge in order to automatically fix the cutting stroke
- exclusive "no-drop" system to have a uniform trickle of oil along the whole cutting path
- automatic adjustment of the working parameters according to the glass thickness

The lower and upper opening of the glass is performed by means of a contrast roller, not using the traditional breaking bar. This solution guarantees the possibility to open any thickness with the utmost quality and absolutely no splinters: during the opening operation the glass never lifts up.

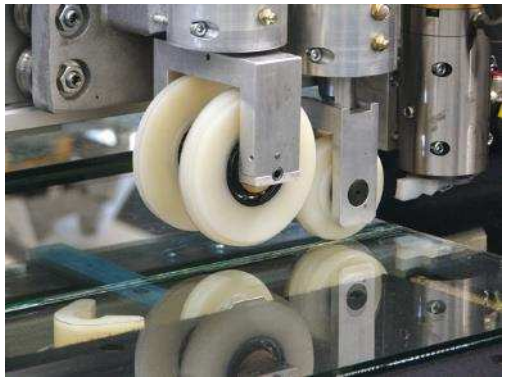


LAMY 370 S is ideal to process Low-E glasses since the separation of the glass is by means of specific pliers, which clamp the glass only along its edges. The coating does not get damaged as the contact with the clamping unit is really minimal.

Working area completely free
The detachment technique by pliers does not need a second upper bridge (generally used to support the detachment rollers). The working area is completely free from any obstruction and glass handling is very easy: the operator can move both the glass sheet and the cut piece without turning around the control panel.

Resistance and programmed heating
The shortwave high-performance resistance is brought to the maximum temperature in a proportional way by pre-heating, avoiding sudden changes in voltage and temperature, to the benefit of the resistance life and of energy saving.

Sheet trimming up to few millimetres from the edge
The detachment pliers (in place of the rollers) and the break-out by means of lower and upper rollers (in place of the traditional breaking bar), allow the trimming of the sheet or of the single piece up to few millimetres from the edge, thus minimizing the scrap.



The following functions are included in the machine standard scope.

“Zero” sheet squaring: bridge positioning devices up to the cutting line (0 mm). Automatic cutting and heating cycle up to 20mm from the glass edge. Breaking and detachment are manual.

Manual squaring at 3.210 mm: pad to position the glass sheet at 3210mm, in addition to the standard 2750mm.

Blade and fan kit for high thickness cutting (only on glass sheets sizing max. 2750 x 3710mm): for thickness 8+4.56pvb+8mm and 10+0,76 pvb+10mm.

Dedicated software for customizing the cycle programs during patterned glass cutting.

Control panel
The ergonomic design of the adjustable control panel has been conceived to restrict to the maximum the occupied room in order not to block the operator movements. A modern colour display is the handy and direct man-machine interface.

Electrical plant
Electric installation carried out according to CE rules with from the machine separated power panel and with waterproof connectors and cooling system.
Standard voltage 400/50 Hz.

Optional devices

Primitive trimming < 120mm

- Automatic cutting, breaking, detachment and heating cycle from 120 to 60 mm from the glass edge.
- Automatic cutting, breaking and heating cycle from 60 to 40 mm from the glass edge (manual detachment).

Optimizer (software and hardware)

- **SC-LAMY** software to optimize the cutting and the management of the machine working steps
- PC, holder for PC, for keyboard and for video, linkage cable, interface card and relevant connector.

Connecting kit to tilting cutting / loading table (of the customer)

Connecting kit to REV 372 SR

Low-e edge deletion

Automatic device for the shaped and straight removal of the Low-e coating by electro-spindle and cup wheel.

<u>Important note.</u>

- **Lamy 370 S must always be combined with a glass loading / supporting table**
- **For the correct operation of Lamy 370 S, should the customer decide not to purchase this table from Bavelloni and provide himself for its production and/or supply, the characteristics must be the following:**
  - **Working plane flatness: 1 mm**
  - **Air cushion and NOT castors**
  - **Equipped with its own electrical box + fan**
  - **On/off interface for fans and emergencies according to safety current rules performed by the customer**

Bavelloni will not be responsible of delays in the installation or malfunctions of the machine, in case the customer does not respect the above instructions.

N.B. The installation requires the availability of a customer's operator to assist Bavelloni technician.

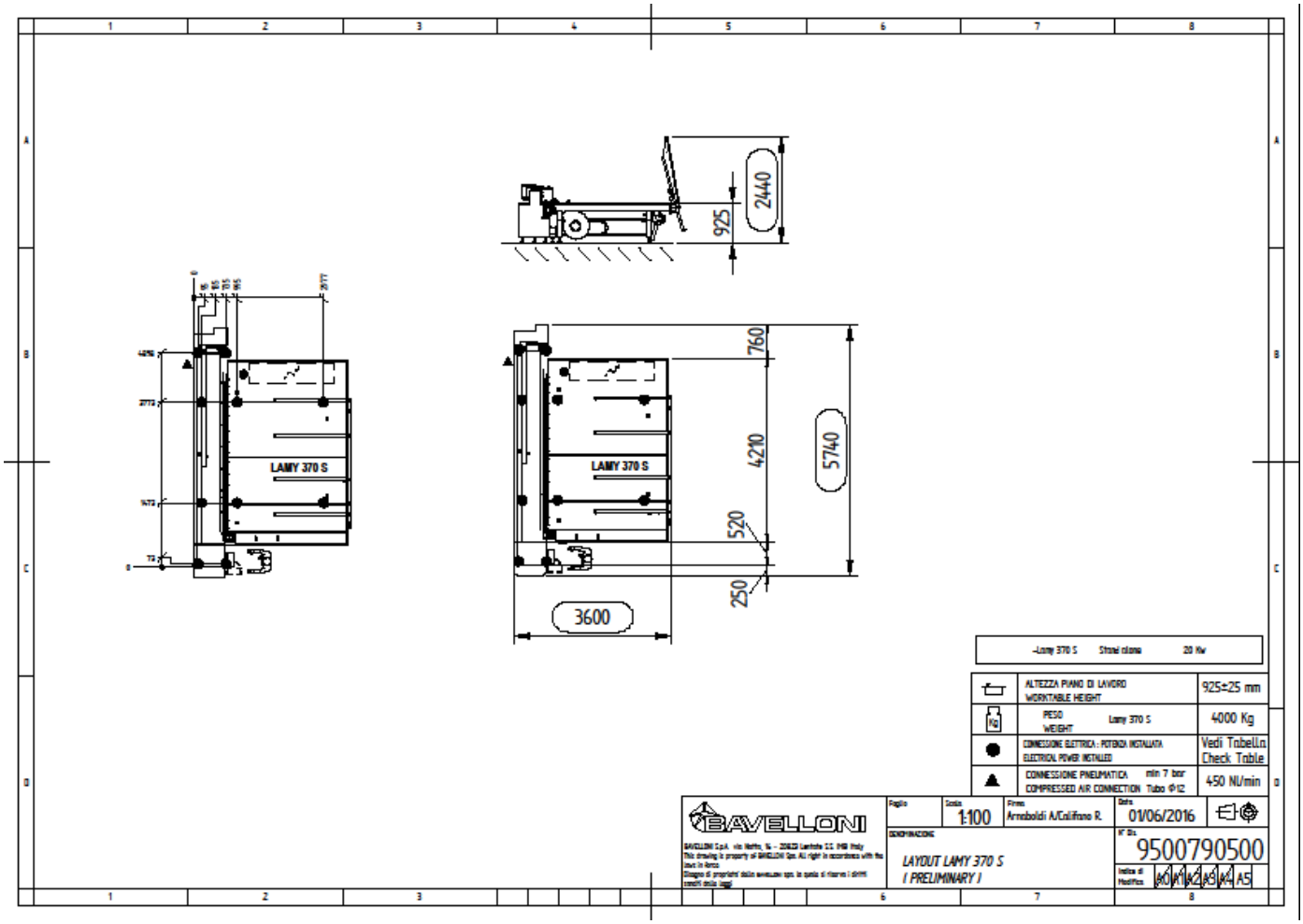
Technical specifications

Max. useful cutting length	See diagram enclosed to the lay-out
Min. useful cutting length	See diagram enclosed to the lay-out
Minimum workable thickness (laminated glass)	3+0.38+3 mm
Maximum workable thickness (laminated glass)	8+4.56pvb+8mm and 10+0,76 pvb+10mm
Minimum workable thickness (monolithic glass)	3 mm
Maximum workable thickness (monolithic glass)	10mm
Min. bridge positioning	See diagram enclosed to the lay-out
Max. bridge positioning	See diagram enclosed to the lay-out
No. of front bridge positioning pads	3
*Squaring positioning accuracy	+/- 0.5mm
*Straightness	0.5 mm
Max. cutting speed	80 m/min
Storage ambient conditions (temperature/humidity)	from -20°C to +60°C - max 80% without condensate
Operational ambient conditions (temperature/humidity)	from +5°C to +45°C - max 80% without condensate

* Cutting accuracy data checked only on the scoring

Layout and diagram

The present layout shall be considered as preliminary. The final one will be supplied with the sales agreement.



Min. tail trimming of Y traverse with diagonal cut and/or "0" positioning

1)If Y (A) traverse is > 480mm wide: no limits

2) If Y (A)traverse is < 480mm wide:
a) no limit for trimming when last traverse "B" is > 560mm
b)min. tail trimming of 100mm when last traverse "b" is between 200-560mm
c)if the pieces is =B < 200 min. tail 410mm

Min. tail trimming of Y traverse standard positioning

1))If Y (A) traverse is > 880mm wide: no limits

2) If Y (A) traverse is < 880mm wide:

a) no limit for trimming when last traverse "B" is > 560mm
b) min. tail trimming of 100mm when last traverse "B" is between 200-560mm
c) if the pieces is = B < 200 min. tail 410mm