

# High-performance cutting, edging and insulating



*High-speed cutting tables with new software programmes for the management and optimization of production, as well as grinding and edging machines which combine versatility with robustness, are among the newly developed products from the Z. Bavelloni Group. The company singled out a selection of these, together with its latest LV line for IG, to present at Glasstec '98.*

Z. BAVELLONI SPA

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The HTS 40 cutting table

## COMPLEMENTARY SOFTWARE

Z.Bavelloni has also developed an entire range of software programmes which run in Windows 32 bit, designed for production management and optimized planning of the cuts. More specifically, its software series allows the following functions to be carried out:

- management of glass sheet stocks;
- management of orders;
- customer management;
- production order management;
- optimization;
- label printing;
- NC on-line drive of cutting table.

The range of programmes includes the *EASY CUT DEMO 25-50* and *EASY CAD* for the creation of profiles of any shape.

## EDGING AND GRINDING MACHINES

Among Z.Bavelloni's range of edging and grinding machines, the *PRV 99 NC* edger and the *B 13* grinder have particularly interesting features.

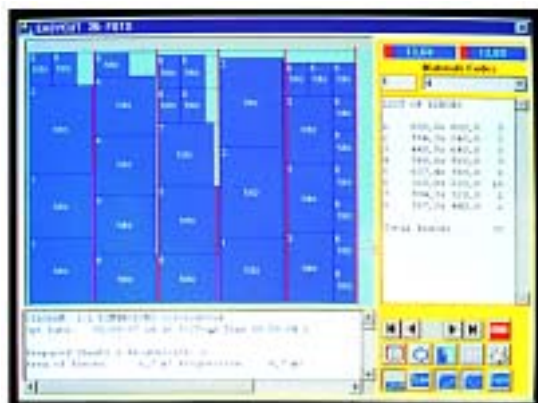
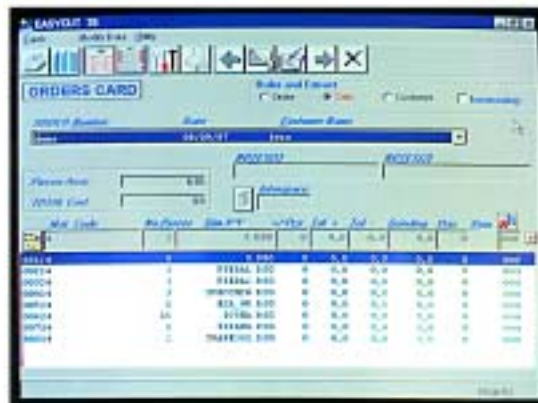
Video displays from the Easy Cut 25 (above) and Easy Cut 50 (below) programmes

## CUTTING TABLES

Among the various cutting tables presented at Glasstec '98 by Z.Bavelloni, particular attention is drawn to the *H Series*. Designed for straight-line and shaped cutting, these technologically advanced tables operate at high speed and with extreme precision, thanks to accurate mechanical coupling, combined with high powered brushless motors. Furthermore, they are equipped with a rack drive which, together with their high performance, make them suitable for intensive production.

Technical features of the H Series include:

- high precision pinion and rack drive;
- cutting speed of 120 metres/minute;
- precision of 0.15 mm;
- highly efficient and versatile air cushioning system able to work at three different regulations;
- industrial NC with colour monitor;
- brushless motors;
- differentiated reference and loading pads.







The PRV 99 NC edging machine

and achieve the same level of precision and quality. This is due to the machine's robustness and flexibility. NC with a 9 inch monitor is provided for the management of all the functions of the machine (activation of the conveyor according to glass thickness, setting processing speeds, adjustment of the group of wheels for variable angle edging, etc.).

The B 13 is a straight-line grinding machine with 13 wheels for the processing of flat edges with arrises. Such wheels have been expressly designed to optimize processing speed and quality. Both flat edges and arrises are finished with resin wheels



80 mm	3 ÷ 25 mm	0° ÷ 45°	0 ÷ 5 m/min	17 Kw	7,4x1x2,3 m	3.200 Kg
3" 1/8	1/8 ÷ 1		0 ÷ 197"/min		291"x39"x90"	7.604 lbs

The PRV 99 NC, a nine-wheel, variable angle straight-line edging machine, is capable of performing flat or slanted edges at an angle of 0 to 45° with side arrises. The conveyor slides along steel runners without the need for ball bearings, guaranteeing perfect sliding linearity. Another important asset of the PRV 99 NC is its ability to work with any size of glass

and polished with felts and cerium oxide. This machine is also robust and versatile and is able to process glass from the smallest sizes (a minimum height of 40 mm) to the largest (up to a maximum thickness of 50 mm). Further features include a minicomputer for the management of all of the machine functions and a device to disconnect the transport of the inlet arm, to enable the loading of large glass sheets whilst the machine is working.

The B 13 grinding machine



40 mm	3 ÷ 50 mm	0° ÷ 5 m/min	27 Kw	8,6x1x2,3 m	4.600 Kg
1" 3/16	1/8 ÷ 1" 31/32	0 ÷ 197"/min		338"x39"x90"	10.154 lbs

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## LINES FOR INSULATING GLASS

Among Z.Bavelloni's machinery for insulating glass, it particularly recommends the LV line. An automatic or semi-automatic line for production on a small and medium scale of double-glazed panels, the LV is extremely adaptable thanks to its modular design. For instance, the type of washing machine can be chosen according to production requirements. Some of its most important features are:

- daily production of between 300 and 400 panels;
- stainless steel washing machines and tanks;
- automatic adjustment of rollers and brushes according to the thickness of the glass;
- 6-brush washing system;
- third rinsing section;
- drying section;
- manual positioning device with overrun;
- roller press;
- fixed or overturning ejection device.

## EXPERIENCE AND EXPERTISE

Z.Bavelloni's success in the field of flat glass is due not only to its long-standing experience of machines for this sector, but also to its expertise in the manufacture of tools.

In fact, Z.Bavelloni's diamond tool design, production and sales department, which was recently awarded ISO 9001 certification, tests the tools on Z.Bavelloni's machines in order

The LV line for insulating glass



Roller press in the LV line with digital display

to create a perfect match between the two.

Following the success of the products selected for presentation at Glasstec '98, Z.Bavelloni intends to introduce further innovations in time for the next important trade fair for the glass industry, Vitrum '99.

Z. BAVELLONI - ITALY

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