

THIS VITRUM FAIR EDITION, WHICH HAS BEEN HELD FOR THE FIRST TIME AT THE NEW PAVILIONS IN RHO-PERO, HAS REPRESENTED FOR ADELIO LATTUADA THE OCCASION TO PRESENT THE FRUITS OF THE WORK CARRIED OUT DURING THE PRECEDING MONTHS AND TO THANK THE AGENT FOR GERMANY AND OTHER GERMAN-SPEAKING COUNTRIES AND BENELUX, H. FÜLDER MACHINES BV

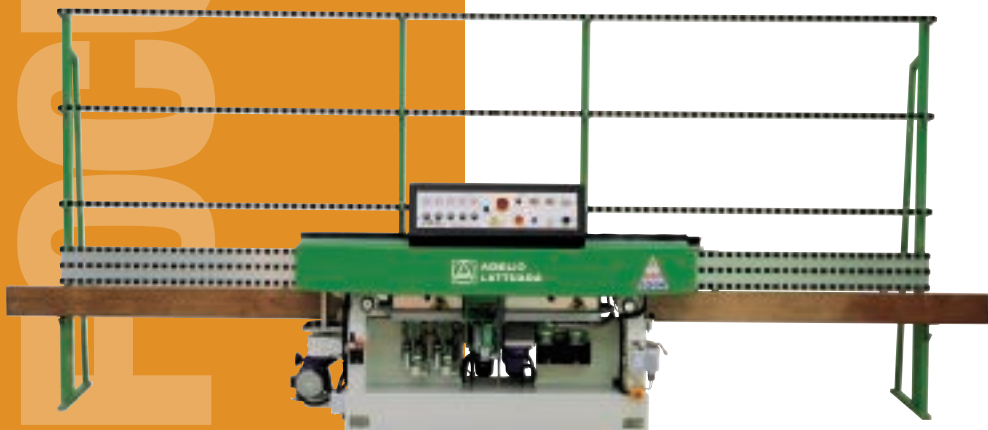
In the frame of the new fair



The stand at the Vitrum fair with a BETA 10 double edger.

This year the company have celebrated the 15 years of a very successful collaboration during which Mr. Hans Földner and all his staff have sold more than 300 Lattuada machines, letting two names become synonym of reliability and innovation. On the occasion of the fair, Adelio Lattuada have decided to underline this anniversary also by the positioning of two posters placed on the rack of a very special model of the edging machine model TLS 16 AV C SP55. Coming to the news regarding the production, this year, after having "vir-

tually" presented it on the last Glastec fair occasion, the company has been very proud to display for the very first time a double-edger of the brand new BETA series. The currently available versions are the 10 and 11 wheels but soon many models will be added. In Milan Adelio Lattuada has exhibited a BETA 10, double-edger for the processing of the flat edge with arris with 10 cup wheels (and possibility to add one corner cutting spindle) on each side. Equipped with an automatic system of glass squaring and centring, it has also a colour touch-screen panel, conceived in order to help the machine's check, use and maintenance. Thanks to this panel, the operator can manage the (automatic/manual) cycle of the processing's preparation, execution and monitoring with a series of very useful functions such as for instance the recording of the most frequent processing, the real-time statistics of use, the maintenance and alarms management. At the entrance side of the machine there are two steerable panels on Lattuada has placed the ammeters for the wheels' power absorption as well as other controls which can be helpful during the glass insertion phase. The rugged and strong bedplate of the machine is realized in arc-welded steel, duly nerved in order



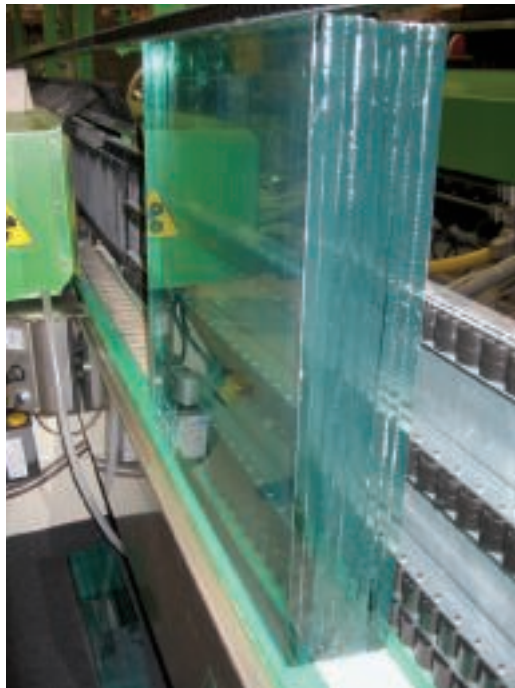
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to avoid torsion effects of the structure. The movement transmission system is realized through a broached and toughened transmission bar, placed in a superior position with regard to the belts for guaranteeing: a better precision and durability of the bar and both the synchronism and the easy substitution of the belts. The main strong points of the double edger are the modern technologies used, the high-quality components for the electronics, the sensoristics and the automation and therefore the simple and quick setting and positioning. For this reason it is particularly suitable also for small production lots.

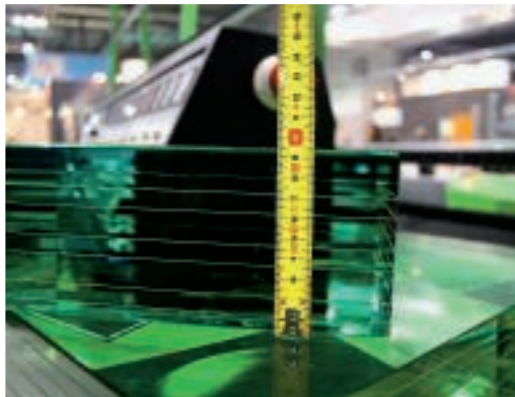
During the weeks before Vitrum, the company also announced the creation of a new series of edging machines: the TLS range, which represents an evolution of the well-known TLR edging machines' series, the most used by the main producers of stratified glass for the heavy building industry in the Northern Europe. Thanks to some structural changes, mainly linked to the application of new pads (220 mm long instead of the previous 195 mm) and toughened guides (220 mm high instead of the previous 200 mm), the models composing this range can carry glass sheets with a weight up to 1.500 Kg. The TLS series includes models from 13 up to 16 wheels in order to offer different solutions, among which also the possibility to process glasses with a thickness up to 100 mm. The TLS 13 AV C SP100, is one the models able to grind stratified glasses with these huge thicknesses, like for instance the one shown in the picture. The TLS edging machines, as well as all other Adelio Lattuada models, offer an optimal duration/cost ratio. This is a very important characteristic that is always fundamental for glassworks because of their need of machines with a long working life. In fact, there are Lattuada machines still working after 20 years and with up to two million metres processed, while the average working life is normally about five or six years if quality and production levels have to be maintained.

Although during the last months Adelio Lattuada has focused the attention towards the development of these bigger edging machines, it hasn't forgot the other smaller "families". The company is actually very proud also of the AL series which includes models of small/middle sized straight-line edging machines for the processing of flat edge with arris, with variable angle and peripheral straight-line edging machines from 4 to 9 wheels, but all with a great working capacity.

They can handle in fact large productions because they are conceived and realized with a part of the technological solutions adopted for the bigger machines, such as the fitting of the same spindles and conveyor. These features make them able to deal with big productions and increase their lifetime reducing at the same time the maintenance required.



A 90-mm laminated glass sheet prior to processing on our TLS 13 AV C SP100 edger.



The same 90-mm laminated glass sheet after processing on the TLS 13 AV C SP100 edger.



Nicola Lattuada in front of the booth (on the background: posters celebrating the anniversary with H.Fuldner machines bv)

ADELIO LATTUADA

Expanding Markets



Fig. 1

THE TRIULZI RANGE OF GLASS PROCESSING MACHINES ARE WIDELY ACCLAIMED AND EXPORTS ACCOUNT FOR SEVENTY PERCENT OF THE PRODUCTION OUTPUT. THE MACHINES BEING EXPORTED WORLD WIDE AND THE MOST INTERESTING MARKETS AT THE PRESENT TIME BEING THOSE OF THE MIDDLE EAST, SOUTH AMERICA AND RUSSIA, ALTHOUGH SALES IN EUROPE AND ITALY ARE ALSO RISING STEADILY

Triulzi provides yet another example of the intrinsic Italian skill in innovative production, which is geared to specific customer needs and expectations, and this is the reason for its export success. Something of which the company is rightly proud, the company having a long standing family tradition. The Triulzi Cesare company was in fact established in Limbiate in 1952. The company founder was initially involved in the construction of swing benches for mirror production as well as mirror conveyors. A few years later it became the first company in Italy to begin the production of horizontal dryers and washing machines for glass sheets. The Triulzi production output subsequently evolving to include vertical washing machine-dryers followed by complete systems for the production of insulating and laminated glass. The ongoing evolution of the company has recently been further confirmed with the recent launch of its talcing systems, used in the production of car windscreens and for the automated and high-performance production of acid-etched glass. The factory is located in Limbiate, on the outskirts of Milan and covers a surface area of 10,000 sq.m, of which 4,500 sq.m are covered, and which employs a staff of fifty. Sales are carried out both direct and through a network of sales agents.

Energy saving focus

The Triulzi company philosophy is strongly geared to customer satisfaction and gives priority to providing a service and product that meets the requirements of both the markets and the customer base. For example, in recent times there has been a growing demand for new functional processing solutions in the automotive and building industries. The building industry in particular having show interesting market developments, as with the entry into force of the new standard imposed by the Italian law no. 311 concerning energy savings in buildings, there has been a considerable increase in the use of low-emissive glass. There is also a growing demand for solar panels, and it is in this field that the company R & D department has been particularly active. One of the distinguishing features of Triulzi production being its flexibility which means that it is capable of meeting the demands of both small and large customers in terms of machine features and size. So that it is capable of meeting the needs of the optical field just as well as requirements of jumbo sheet production. According to Triulzi the market is now experiencing a revival. The company has, this year, seen a rise in orders especially in the building and automotive fields and is therefore justifiably optimistic for the future.

Products

The Triulzi range of products for the glass industry includes:

- horizontal washer-dryers
- vertical washer-dryers
- IG manufacturing lines
- laminated glass lines
- wet talcing machines
- automatic acid-etching glass lines
- water treatment plants

VOT.SP30.1600.4.1+1.2

open-top vertical washing machine (Fig. 1)

Features:

- operating height 1,600 mm with open top
 - glass sheet min. size 300 x 150 mm
 - max. thickness 30 mm with pneumatic selector
 - electronically adjustable speed 2-8 m/min
- detail of the bottom part bevel gear system

VTZIS.SPA.LEA.3210.6.3.2

jumbo vertical washing machine (Fig. 2)

Features:

- operating height 3,210 mm
 - glass sheet min. size 300 x 150 mm
 - automatic thickness adjusting device and display
 - automatic cylindrical brush selection device for low-e glass
 - electronically adjustable speed 2-8 m/min
- The newly developed upper transmission avoids the use of chains and belts; brushes are powered by independent motors

TOSCANA.Y-L-1000.6.2.6

horizontal washing machine (Fig. 3)

Features:

- operating width 1,000 mm
- glass sheet min. size 100 x 50 mm
- 500 mm machine opening for inspection and large thicknesses
- electronically adjustable speed 2-10 m/min



Fig. 2



Detail top view fig. 2

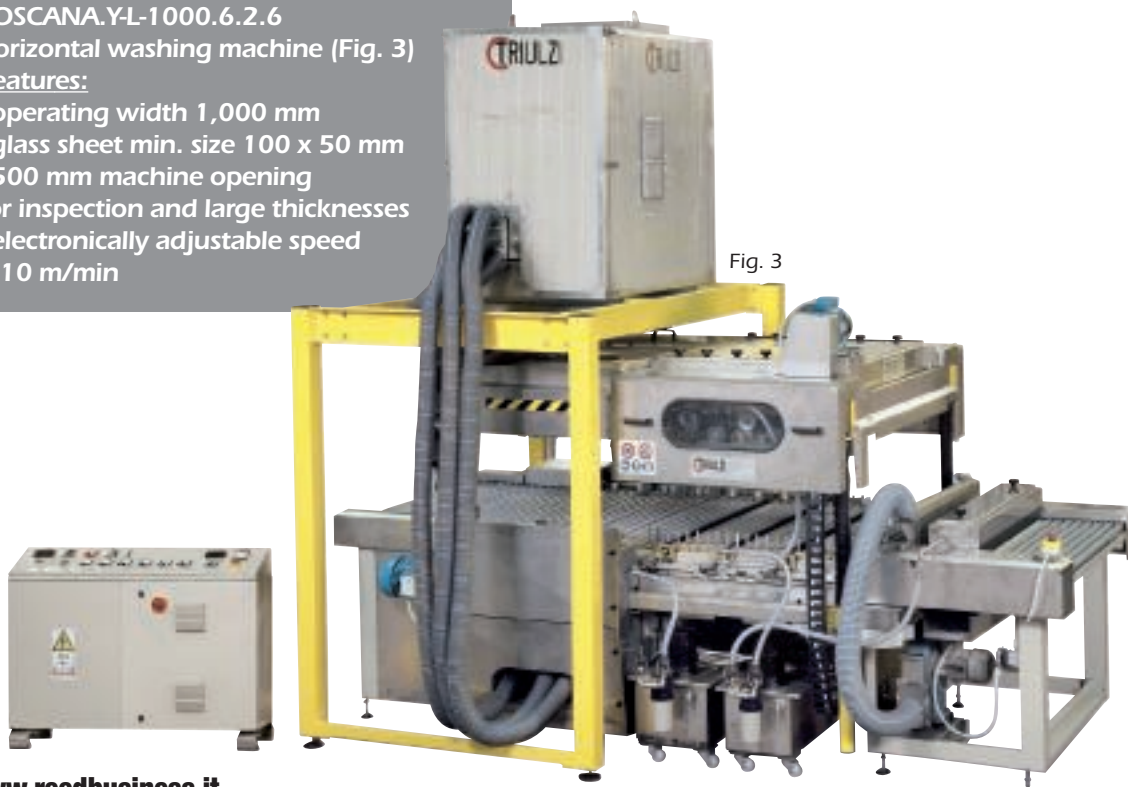


Fig. 3