The presentation of new machinery or updating of the same, is always a significant step. Already an important player in the sector dedicated to flat glass processing, Intermac continues developing its machinery, with PC managed Master workcentres and Genius cutting tables.
Intermac Glass & Stone Division is part of Biesse Spa, an Italian company quoted in the Star segment of the Italian stock exchange. The division develops and commercializes machinery for flat glass processors and, in general, for the furniture, architecture and automotive industries.

It has over 250 employees and occupies a production area of more than 25,000 square metres, with production units located at Pesaro, central Italy, Bagnatica (Bergamo) northern Italy, and Lugo (Ravenna) central Italy.

The glass division is made up of four different brands:

- **Intermac** - specialist in high-tech workcentres and cutting tables since 1987;
- **Busetti** - leader in the sector dedicated to bilateral grinders. The company’s range of machinery also includes those for the handling of glass sheets, as well as automatic and semi-automatic drills;
- **Gieffe** - a manufacturer of semi-automatic machinery for grinding, bevelling and polishing of glass with straight and shaped edges, founded in 1980;
- **Diamut** - diamond tools, shaped wheels, grooving wheels, bevelling wheels, resin wheels, routers, and drill bits.

Intermac presented its new range of workcentres and cutting tables some months ago, with good results in terms of interest from the market. This article carries out an in-depth analysis of the innovative contents of these machines.

**PC-BASED MACHINE CONTROL**

One of the most important innovations introduced with the new range of Intermac workcentres and cutting tables, is machine management by commercial PC, with a Windows operative system that, other than guaranteeing high performance and productivity of the machinery, also enables high speed and intuitive approach for the operator.

Among the numerous advantages deriving from the use of a PC, the following should be highlighted:

- familiar and highly intuitive work environment;
- possibility of multi-task working, using different applications simultaneously, while the machine continues to work without slowing down, and with the same level of reliability;
- total connectivity with networks and data storage systems (CD; floppy).

Maintenance costs are extremely reduced, because the hardware components are reduced to the minimum. Moreover, the presence of a modem enables the use of Intermac’s tele-service, with the possibility of carrying out long distance diagnosis and software updates and changes, with a consequent decrease in costs and an increase in efficiency.

**THE NEW RANGE OF GENIUS CUTTING TABLES**

*Genius CT* is Intermac’s new range of machines that set new standards in the CNC cutting table sector, for straight and shaped edge cutting of monolithic glass. The range is made up of two models called, respectively, *Genius 37 CT* for half-sized sheets, and *Genius 61 CT* for jumbo-size glass sheets. The availability of numerous options to simplify and speed up processing operations, make Genius the ideal answer to the demands of artisans, as well as medium- and large-sized companies.

Genius is equipped with an innovative electronic system to control cutting pressure, as well as new management software, enabling to regulate, with the maximum precision, the pressure carried out by the cutting heads on the glass sur-
face, thus guaranteeing excellent processing quality.

Moreover, automatic lubrication control guarantees an optimum distribution of oil on the wheels, in relation to the working speed of the shapes and of the cutting profiles, eliminating waste and improving processing results.

Among Genius’ many optional devices, there is a six-position tool warehouse dedicated to those companies that require maximum flexibility and speed in process changeover. Tool changing automation also guarantees the highest quality of results, since the most indicated tool for each type of cut (straight line, shaped, open shaped, vinyl, etc.) is always present on the operating heads.

Genius can also be structured as a cutting line, in which the winning feature is the availability of numerous in-line integration solutions. In this way, the line can be adapted to the production needs of each client, who can choose among completely automatic and semi-automatic solutions.

**MASTER WORKCENTRES**

The new Master line of workcentres from Intermac is based on three levels of technology, each of which offers machines with different sized work surfaces.

The flagship products of the line are the *Master 35 - 45*, authentic poly-functional workcentres, able to carry out the most complex and varied processes, thanks to a new operating group, which is extremely compact and rigid, with five axes, infinite C axis, and A axis with +90° -90°. These machines enable the execution of operations such as simultaneous drilling from above and below, milling, grinding of peripheral polished edges and cup grinding, cutting, use of flat and convex saw disk, and incisions. More complex processes such as lateral drilling on straight and shaped edges, or variable angle bevelling, can also be carried out, guaranteeing excellent finishing quality.

*Master 34* is dedicated to the grooving sector, transferring the highest level of quality and technology to this sector. Last but not least, *Master 33 – 43* is for companies that intend to increase production capacity by acquiring a reliable and highly professional instrument. The possibility of equipping these machines with an optional fourth rotating axis, which extends the versatility of these workcentres, makes possible tasks such as grooving, cup wheel edge grinding, and lateral incisions, as well as saw wheel cutting on shaped edges.

**THE OTHER BRANDS OF THE GROUP**

The other brands of the Intermac Glass & Stone Division are also carrying out the same innovative technology of the mother company. In fact, Busetti has developed a series of bilateral machines (of which a continuously growing number dedicated to structural glass) that are obtaining success also thanks to their optional equipment that enables them to be adapted to the most varied needs of customers.

Gieffe is continuing its production of semi-automatic machines dedicated to the sector of artisans. Last, but not least, Diamut has developed a new series of high-performance milling machines and diamond wheels on its workcentres, as well as a new series of cup grinding wheels for flat and pencil edges.

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