The Italian company Forvet produces leading drilling, grinding, and milling machines for building and furniture glass. Forvet’s latest model not only has revolutionary capabilities, but can work in tandem with other machines. The automation and control demands are high, so Forvet uses Siemens controls – because of past success and also because of the reliability, performance, and flexibility of the Siemens control and drive systems.

A modular grinding solution
The new grinding machine, the Chiara Modular MPT8, represents a true revolution. It performs grinding and polishing of perpendicular and out-of-square sides and can be equipped with corner dubbing. It can operate on all sides of the glass simultaneously, from a regular triangle to an irregular polygon. Thanks to the high-performance, drive-based Simotion D controller, which enables complete control of every machine action, it is possible to grind glass that is 3 millimeters thick with dimensions of 300 by 400 millimeters, and then immediately after, without intermediate settings, grind glass that is 19 millimeters thick with dimensions of up to 3,300 by 6,000 millimeters.

The Chiara Modular MPT8 can work in sequence, without manual intervention, on glass of different thicknesses, sizes, and shapes. It can also work each side of the same piece of glass with a different edge finish (one side bright grinding, one side rough grinding, one side only seamed, etc.). During production, the glass is supported by an automatic vacuum system with suction cups managed according to the size of the glass. This makes the Chiara the only grinding machine that guarantees no contact with the low-emissivity (low-e) treated surface. The Simotion D445 controller makes this possible.

A perfect team
The integration of the Chiara with the Francesca machining center, which performs automatic milling, countersinking, and drilling, marries the ability to grind and polish irregular polygons with the ability to drill and mill the same plates and to work on two plates at once. The Francesca can be loaded automatically from the Chiara, loaded manually, or loaded from both sources at once.

Key points
- The Chiara Modular MPT8 can work on irregular shapes and provide different edge finishes simultaneously, with little or no contact with the glass’s treated surface.
- The proven reliability and performance characteristics of Siemens control technology made it Forvet’s natural choice for a solution.
- Thanks to the drive-based Simotion controllers, complete automation is possible for every action and sequence of the Chiara machine.

Forvet builds sophisticated high-performance glass processing machines such as the Chiara Modular line of grinding machines.

The Chiara has the characteristics of all Forvet machines: no minimum distance between holes or notches, maximum thickness up to 19–25 millimeters, drilling diameter up to 70 millimeters, automatic tool wear compensation, automatic lubrication of all moving parts, the ability to provide different finishes on each side of each polygon, and the handling of low-e glass with no contact with the magnetronic side.

Info www.forvet.it