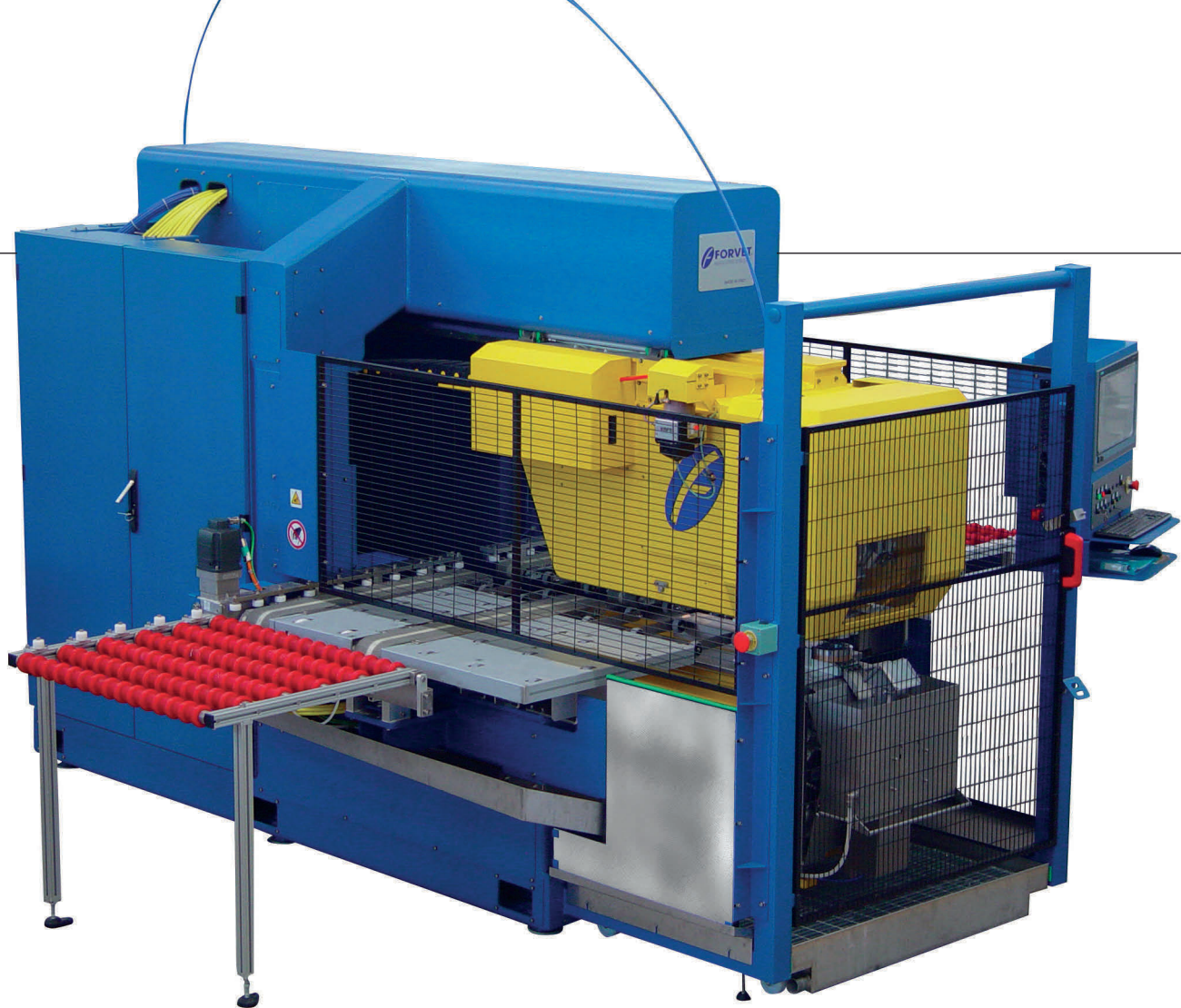


FORVET: still innovating with drilling, milling and countersinking solutions

When it comes to performance, innovation and technology, FORVET's equipment range of numerically-controlled solutions still wows the glass industry to this day - whether we're talking glass-working machinery or unique integrated solutions.





Dedicated to drilling, milling and counter-sinking operations on flat glass as well as irregular shapes, Forvet's Francesca range comes in several models. In two versions these are subdivided into three macro-types - with or without water-jet system integration, namely:

- Francesca FC 16M 1250 H.O
- Francesca FC 16M 1600/2000/2600/3000 with or without water jet
- Francesca FC 32M 3300 with or without water jet

FRANCESCA FC 16M 1250 H.O

Over 30 years have passed since the Francesca FC 8M 1000 prototype was first created as a

pioneering, numerically-controlled drilling machine. Today the model encapsulates Forvet's most advanced technology for drilling and milling operations. Not only. Compared to its original, the model can now boast 35 percent less footprint, 30 percent in weight-saving (thanks to its light alloys and compact, 3.6-ton structure), 30 percent in energy-saving and 25 percent of increased productivity.

Maximum drilling is at 70 mm in diameter, with larger diameters achievable using its milling feature. Cycle time is completely automatic - with no manual adjustments needed. Numerical control only requires hole di-

ameter and coordinates. The NC calculates both glass transport feed and spindles rotation automatically, as well as water quantity and tool wear & tear recovery.

With 8 positions each, the two rotating heads can install the Forvet Super Spindle - which is able to perform milling operations at a speed of up to 12.000 rpm and guarantees a higher milling speed and longer tool life cycle.

WATERJET SYSTEM INTEGRATION ADVANTAGES

Waterjet-integrated Francesca models combine the technology of diamond tool drilling with that of waterjet cutting - both of which are managed by a

single numerical control. As interacting production principles each implements the advantages of the other to expand production capabilities - all with mutual advantages that include, for example, the waterjet not needing to switch between two pressures when executing preliminary piercing through the glass thickness. This is because the phase doesn't require drill-bit use. Instead it starts the cutting movement with the pump working at a single pressure, then doubles its use without any maintenance intervention. In this version too, loading, positioning, processing and unloading operations are all completely automated.



FRANCESCA FC 32M 3300

The only CN machine that's able to load, process and unload two glass sheets at the same time without the need for manual adjustment. With this model it's possible to process a glass sheet of up to 3300 mm (maximum length) or two sheets reaching 1600 mm (maximum length) each. The machine is equipped with 32 tools installed on 4 rotating heads - all operating either simultaneously, independently or in sync with each other and thereby significantly reducing production cycle

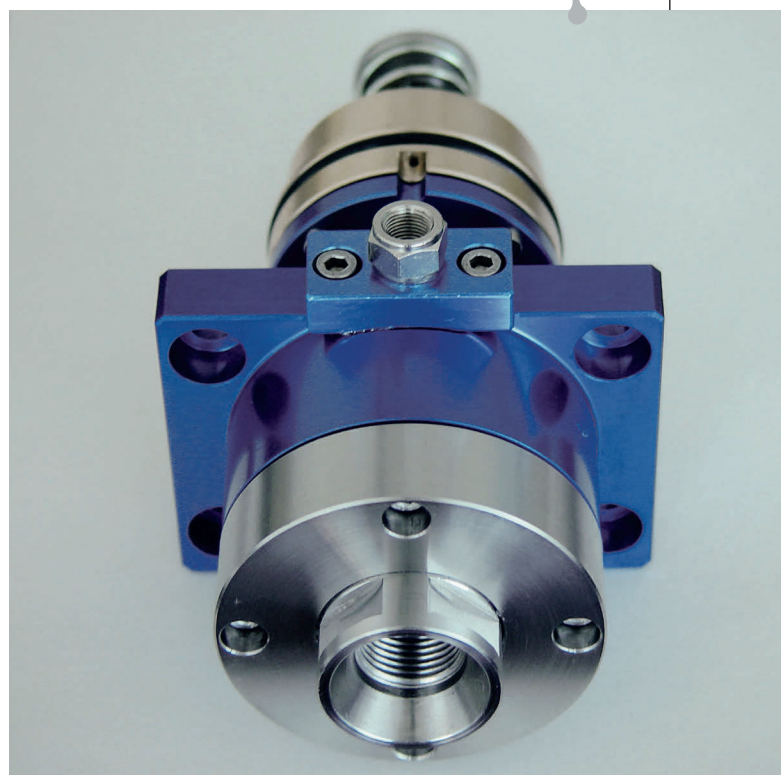
time. Thanks to the extreme speed, coupled with a possibility to process two glasses in contempo, it eliminates the classic process deceleration that's typically exhibited by traditional machines.

AN ELEVATED POTENTIAL FOR CUSTOMIZATION

Prompted by specific customer needs, all Forvet solutions come configurable and customizable. Here, thanks to both its ingrained skills and advanced 3D-design software, the Forvet techni-

cal-commercial team is well kitted-out to closely guide the customer, step-by-step, through the entire equipment design process - offering a service and product that's

tailored to meet every requirement. Here just the number of machines installed globally serves as a clear testimony to current customer satisfaction around the world.



INTRODUCING BIESSE

Forvet was acquired by the Biesse Group in October 2021 - allowing the former to increase and thereby complete its range of glass machining centres. Indeed, it's thanks to the introduction of Forvet's proprietary technologies that the Group can now strengthen its offer to the high-end of the market by providing highly automated, customised machines and systems that are also unique. Thus, also, Forvet obtains in-depth commercial distribution thanks to Biesse's widespread global footprint in all markets. Biesse is a global leader in technology for processing wood, glass, stone, plastic and metal. It designs, manufactures and distributes machines, integrated systems and software for manufacturers of furniture, door/window frames and components for the construction, ship-building and aerospace industries. It invests an average of €14 million per year in R&D, boasting over 200 registered patents. The company operates through 12 industrial sites, 39 branches, and 300 agents and selected dealers, exporting 90% of its production. Its customers include some of the most prestigious names in Italian and international design. Founded in 1969 by Giancarlo Selci, Biesse S.p.A. has been listed in the STAR segment of the Italian Stock Exchange since June 2001 and is currently included in the FTSE IT Mid Cap index. It currently has 4,300 employees worldwide.

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