

CMS VertecMill: the ultimate solution for drilling, milling and countersinking

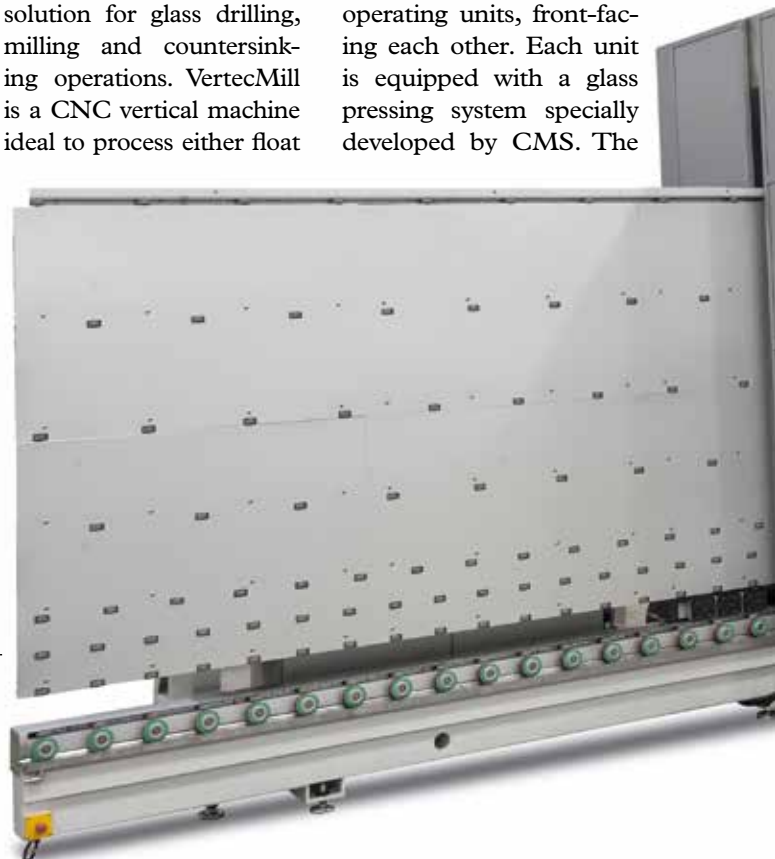
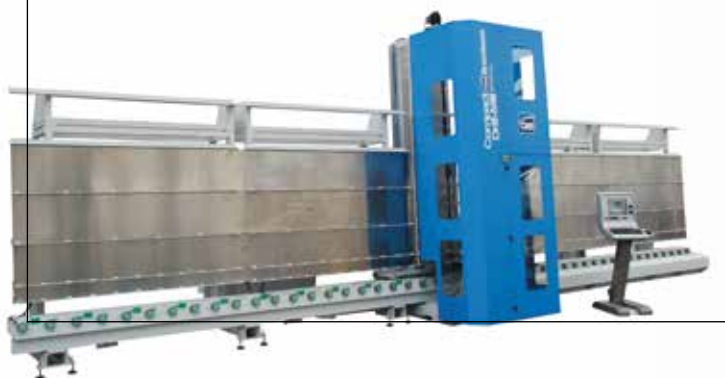
For more than 25 years Vertec Mill has been a winning solution for glass drilling, milling and countersinking operations. It ensures efficient, high quality operations which are now enhanced with both CMS Active software and CMS Connect IoT platform.

Designed and first produced as a vertical drilling machine in the late 90s by Deltaprogetti (company acquired by CMS in 2007), then introduced as Compact Drill, and finally renovated and renamed in 2012, for more than 25 years Vertec-Mill has been a winning solution for glass drilling, milling and countersinking operations. VertecMill is a CNC vertical machine ideal to process either float

or laminated glass-sheets. It allows you to machine Low-E coated glasses. It handles rectangular and shaped glass sheets, provided that they have at least one straight lower edge.

WINNING FEATURES

At the heart of the machine there are two twin operating units, front-facing each other. Each unit is equipped with a glass pressing system specially developed by CMS. The



pressing system holds the glass still for high quality machining, while a thin water cushion is interposed between the glass and the presser itself to ensure a gentle yet firm support without scratching. The function of the pressing system during drilling is to clamp the glass sheet and, at the same time, bring coolant to the outside of the tool. During the milling and profiling operations, the pressing system is detached from the glass sheet by a few tenths and, thanks to the water cushion, vibrations are dampened and the chamfer size is homogeneous.

VertecMill features two 9+9 stations NC-controlled rotating tool cribs - each one installed on a carriage fixed to the electrospindle to ensure tool change operations in the shortest



time possible. Such software optimisation provides for the changing of the tool on one operating unit while the other is machining. To ensure maximum machining precision, VertecMill is

equipped with an automatic core-drill measurement system. This relieves the operator of the task of checking the tool wear. It is also possible to dress the core-drills in a fully-automatic way by following a preset frequency. This fully-automatic system enables having tools that always work at maximum performance in total safety.

VertecMill can process glasses from 420mm x 170mm to Jumbo-sized (according to the machine size) and it can be used as a stand alone machine with manual glass loading or in line with other vertical machines.

USER INTERFACE AND INDUSTRY 4.0

VertecMill currently features the new CMS Active software interface - designed to simplify human-machine interaction and make the process super-efficient. It also comes with a one-year free subscription to CMS Connect, the innovative industrial-IoT platform. CMS Connect displays, analyses and monitors all data from connected machines in real time, turning it into information that can be exploited to increase productivity while reducing both operating and maintenance costs. Customers can access this information from any device. Today, thanks to its tradition and experience, CMS Glass Technology can provide fully-automated vertical lines and robotic cells - all tailor-made to align fully with customer needs.



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