

Rock, the heavy duty edger packed with technology from NEPTUN

ESSENTIAL FEATURES

Robustness

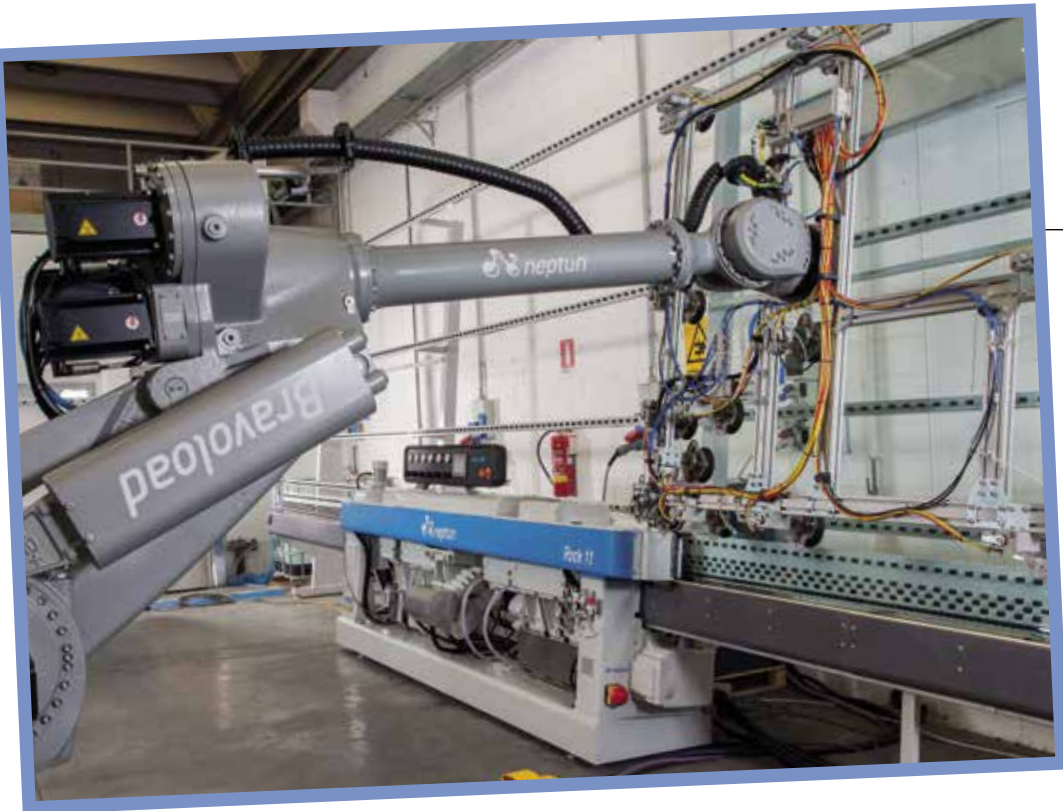
The essential elements for a good straight edging machine are robustness, to support workloads consistently over time, the absence of vibrations caused by the spindle and the conveyor carriage for better quality of the polished edge, protection from water and glass powder to reduce maintenance costs.

Neptun machines respond optimally to these construction and processing requirements.

Extensive use of cast iron and thick steel makes the Rock model one of the most robust and heavy on the market. The rigidity of the structure prevents the bending of the beams even after decades. The cast iron best absorbs the continuous vibrations transmitted by the grinding wheels.

Neptun's Rock edging machines are presented in this article, with information regarding their structure, patented parts, working life and ease-of-use, all features that are required by Industry 4.0.





Duration

The patented conveyor, with Kevlar inserts, slides on grounded steel guides that are automatically lubricated with oil film. Rock sets a new milestone in duration, allowing a useful life up to two million linear meters of processed glass.

The indirect transmission system spindle/motor connected by pulley and the spindle itself inserted in a cast iron box ensure the total absence of wheel vibrations to obtain a perfect polished edge for the entire life of the machine.

The electrical cabinet separated from the control panel offers better accessibility and safe distance of electrical and electronic components from the humid environment of the machine.

Automatic management

User-friendly PLC Touch screen control system allows the automatic management of all the machine functions. The software also assists the operator in

scheduled maintenance, and provides production data and consumption statistics of the tools.

The system is Industry 4.0 ready thanks to the integration into company automation for data exchange interfaces, remote assistance, quality control and traceability.

EXPERT GRINDING WITH AWA

Last but not least, the innovative and patented AWA system for the automatic management of the diamond and polishing wheels, thanks to the principle patented by Neptun, combines ease-of-use, pre-

cision and consequent reliability over time.

Its peculiarity is the hydraulic system for managing the spindles, without electrical and electronic components in the spindle area, thus ensuring high reliability.

After a number of meters processed that can be defined by the operator, Rock AWA automatically activates the presetting of the diamond tools, repositioning them with extreme precision on the desired removal values. The presetting cycle takes only 30 seconds, and no manual commands.

The polishing wheels have an automatic compensa-

tion system that allows them to be used from a new wheel up to its complete wear without requiring any adjustment. The control panel signals the need to replace the tool before its complete wear.

Particularly appreciated by users is the safety system that prevents potential damage to wheels and spindles in the case of glass breakage, along with the possibility of working glass in the shape of a parallelogram and with notches.

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