

Hi-tech washer from **NEPTUN** takes Hi-Speed feature to new levels

Over time, Neptun Srl has developed an extensive lineup of vertical and horizontal washing machines that cater to various washing and drying needs. Earning trust through different advanced solutions, all are

continually adapted and improved to meet evolving technical requirements.

The Tornado horizontal washing machine range comprises three product lines:



TORNADO HP-SV 2068
for very high speed
washing and drying

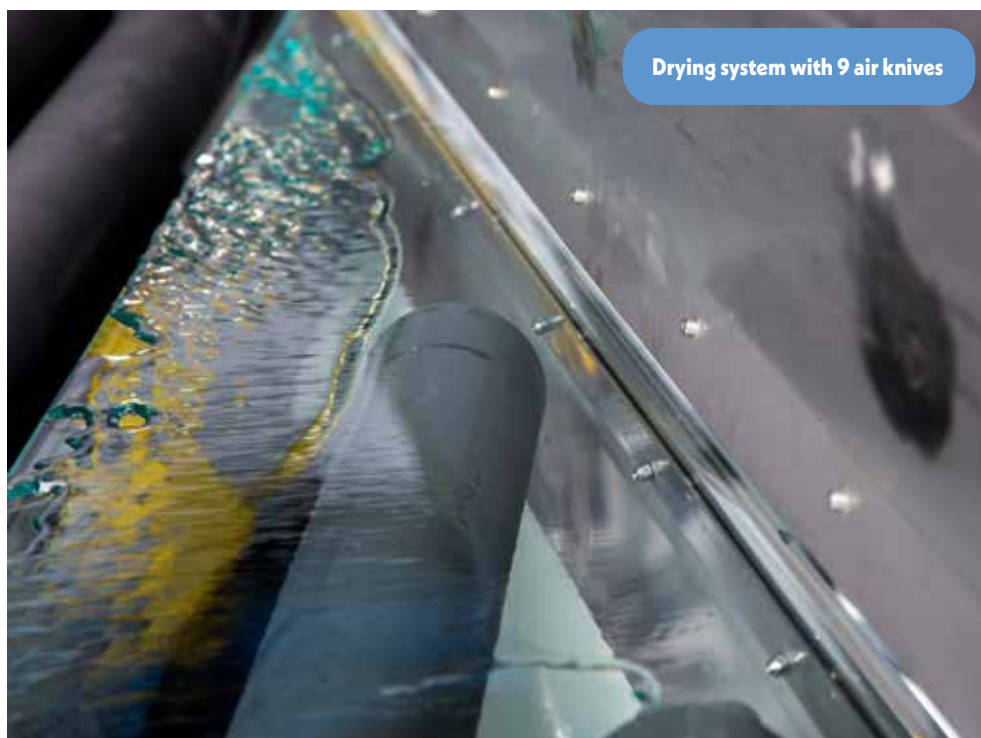
Offering a wide range of washing machines to meet diverse needs, NEPTUN's Tornado series includes the Easy, HP and HP-S lines. The company recently supplied a high-performance washing machine to leading glass manufacturer Vitro - well known both for its success in innovating with glass and for embracing sustainability in its products.

float glass, automotive glass, chemicals and machinery. The company's commitment to sustainability is evident through initiatives like Cradle-to-Cradle certification and publishing verified envi-

- Tornado Easy: Designed for straightforward use, offering robust construction and extensive stainless steel components - being suitable for less demanding production contexts.
- Tornado HP: Equipped with a powerful touch screen PLC, it excels in intensive industrial processes while integrating seamlessly into production lines and SCADA or I4.0 management systems.
- Tornado HP-S: Optimized for special applications such as solar glass, ceramic ink, ultra-thin glass for LCD panels and medical glass, where precision is measured at surface tension level. Here Neptun recently supplied a high-performance machine to multinational Vitro.

A COVETED PARTNERSHIP

Operating internationally, Vitro, is a large glass manufacturer in Mexico and a global industry leader since 1909, producing and distributing various glass products that include architectural glass,



Drying system with 9 air knives



Special geometry to optimise air flows



Vitro Plant in Garcia, NL, Mexico
Grinding and washing line

ronmental product declarations (EPDs) for glass products like Solarban® solar control low-E glass. Vitro has also contributed to numerous LEED® certified buildings.

MEETING AMBITIOUS WASHING AND GRINDING SPECIFICATIONS

For a high-speed grinding and washing line that's capable of up to 20 metres per minute, Neptun has tackled the challenge of maintaining impeccable washing and drying quality. Precision remains paramount, as glass briefly interacts with both brushes and air blades - demanding consistent quality at high speeds. The Tornado HP-SV model, deployed in the washing section, has in-

corporated technical enhancements for superior effectiveness. Achieving optimum drying proved very complex indeed, involving a configuration of four pairs of high-pressure blower-driven fans. Extensive work was invested in optimizing blower geometries to maximize airflow, thereby directing water droplets and humidity away from the already dried glass surface and edges. Also, careful control of water and air temperatures was crucial to the high-speed work cycle - minimizing energy consumption.

To meet the expected intensive use, specialized sensors were integrated for enhanced automation, promptly signaling potential issues and faults. Preventive maintenance and comprehensive control and

management of machine functions were displayed on the operator panel. A group of flow switches dynamically monitored the cleanliness of the water circuit, thus signaling any clogs or maintenance requirements. The exclusive A-qual system efficiently managed water quality - ensuring it remained below the set threshold while minimizing consumption. Owing to the machine's demanding workload, reliability remained a paramount consideration. Indeed just one hour's operation at these speeds is tantamount to four to five hours of wear for any standard washing machine - making long-term reliability essential.

ONGOING SUPPORT

Neptun was delighted at having earned Vitro's trust

with such a significant project and was recently happy to acknowledge the company's local representative, Marbolz Vetrostile, for having extended such professional support and commitment to Neptun by providing skilled on-site technicians to offer technical assistance.

Neptun Srl



neptun

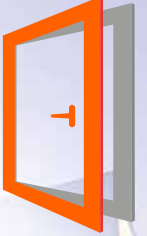
ADVANCED PROCESSING SYSTEMS

Via Giuseppe Mazzini n. 63 E/F
22070 Rovello Porro (CO) - Italy
Tel.: +39-02-96979011
E-mail: info@neptunglass.com
www.neptunglass.com



Take a glance at details
enhancing the living spaces!

WINDOW Eurasia



24th International Window, Window Shade, Facade Systems
& Accessories, Profile, Production Technologies & Machinery,
Insulation Materials & Auxiliary Products Fair

www.eurasiawindowfair.com



Special Sections

Aluminium Profile,
Facade Systems and
Accessories

Special Sections

Shading, Protection
and Closure
Systems

GLASS Eurasia



13th Glass Products and Applications, Production
Processing Technologies and Machinery, Auxiliary
Products and Chemicals Fair

www.eurasiaglassfair.com

DOOR Eurasia



15th International Interior Door and Door
Systems, Lock, Panel, Board, Partition
Systems and Accessories Fair

www.eurasiadoorfair.com

Scan the QR code
for more information!



November 11 - 14, 2023

Saturday - Tuesday

TÜYAP FAIR CONVENTION
AND CONGRESS CENTER

BÜYÜKÇEKMECE
İSTANBUL



Window and Glass Fair
Supported by



THIS FAIR IS ORGANIZED WITH THE AUDIT OF TOBB (THE UNION OF CHAMBERS AND COMMODITY EXCHANGES OF TURKEY) IN ACCORDANCE WITH THE LAW NO. 5174.