



TECNOMATIC
TECHNOLOGIES FOR PLASTIC
MATERIALS PROCESSING

TECNOMATIC INNOVATES FOR K 2022

Tecnomatic is an historical company in the market of machinery for plastic pipes and thanks to its long experience, is able to offer complete extrusion lines up to an external diameter of 3,000 mm, or customized lines for special productions.

Investments in research and development are a constant of Tecnomatic business, in order to maximize the performance of its machines and allow greater production at high and constant quality.

With 45 years of industry experience, it can boast a customer community that reaches over 100 countries around the world, but the future prospective don't stop there. Tecnomatic, which has a well-balanced team of sales, research and development, service and production, has the passion to continue working hard and be a quality partner, developing increasingly important projects.

With this in mind, and in preparation for the next international fair K 2022, Tecnomatic is developing a version of its extruders VEGA L / D 37 and ZEPHYR L / D 40 totally renewed in the plasticizing group. More than any other part of an extrusion system, the design of the extruder feed screw has always established the productivity and the quality of the extruded product. Tecnomatic designers are constantly asked to improve the quantity of output without sacrificing quality or to improve both at the same time.

The new EVO version will feature a completely revised geometry of the screw, as well as newly designed spiral outlets. The new version represents the strongest evolution of Tecnomatic extruders after several years, and aims to improve plasticization, homogeneity and energy saving, leaving unaltered the performances, which are at the highest level that the market can offer.

At the same time, there will be a new release of the EPC I (Extrusion Process Control) control system. The 4.0 paradigm requires, indeed, simple and effective advanced interfaces, which allows the operator to manage production systems that are more and more interconnected and integrated, from multiple devices. In this scenario, the new Multitouch Capacitive Panel PC Platform, with integrated Web Server and 4.0 connectivity, UL certified, will be introduced at K 2022.

The new 21.5-inch TFT LED display, with a wide viewing angle and Linux operating system combined with 64-bit RISC quad core - 1.6GHz processors, guarantees high performance of the integrated graphics libraries and allows you to have numerous plug-ins and widgets available, such as HTML browsers, PDF and video viewers, as well as the ability to create and print reports. Developed on the specific needs of operators, it allows the integration and control of all components such as: gravimetric, co-extruders and corrugators, gear pumps, screen-changers, calibration tanks, haul-off and cutters. The integration and management can take place through the most common analog communication protocols or the more modern OPC-UA, in accordance with EUROMAP 84.

Particularly interesting is the management of energy consumption, of specific equipment or of the entire line, which can be monitored by installing specific modules, and whose data are transmitted

to the PLC via modbus TPC protocol or even exported to the customer's control system via modbus-slave communication.

This EVOLution takes place during a year of great satisfactions for Tecnomatic, with important projects for large diameter pipes for both European and non-EU markets. Among them, stand out the high-performance Ø 1200 mm HDPE line for the Japanese market and the Ø 1200 mm 3-layer line for the Czech market, with an output of 2,000 kg/h, which is the first in Europe with a configuration of this type.

Confident in its team that brings new talents every day, Tecnomatic will continue meeting the ever-changing needs of its customers. For several years the company has been stuck on consolidated technical solutions, but which lacked the technical refinement capable of further improving the quality of the extruded product.

Thanks to the inclusion of new technical staff, with extensive experience in the sector and in plastic materials, the input has finally arrived for the development of a new range of extruders which, due to its degree of innovation, will represent a clean break with the first series.

In this way, Tecnomatic wants to confirm its presence in the sector; a presence based on strong working activity, on its ability to innovate and research, rather than cloning other competitor's solutions.



Figure 1 - A multilayer extrusion line with gearless extruder and piggyback co-extruder for external layer.



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Figure 2 - Barrier screws