

# Presence in Italian Market Strengthened with Top Technology Solutions



*Tecnomatic increases its presence in the Italian market with the agreement to supply a new line for multilayer polyethylene to the company Riccini, an historical company in the panorama of the production of Italian plastic pipes which started in 1970, and well known for the excellent quality level of its products.*

In order to guarantee the production of quality multilayer pipes, with range from  $\varnothing$  20 to 90 mm, and output up to 600 kg/h, Tecnomatic relied on long-tested technical solutions, such as VEGA extruders in L/D 37 ratio, co-extruders for the inner and outer layer in L/D 30 and die head VENUS MULTI 160 from the Venus Multi series produced for diameters up to 1,600 mm.

The extruders and the line are controlled by the new EPC II (Extrusion Process Control), a modern PLC with an intuitive touch screen panel that integrates and centralizes all the parameters of the entire extrusion process. In the digitalization and so-called "smart factories" era, the line could not do without the latest development of Tecnomatic to assist pipe manufacturers with an integrated system of solutions, software, and automation. PIPE 4.0 is an easy-to-use program for networking pipe extrusion lines. Through the machine's EPC (Extrusion Process Control) system, different machines and peripherals are connected to each other to be activated through a uniform user interface, which allows interaction between individual devices. In this way, the whole production process, including material feeding, temperature control and synchronization, is coordinated and monitored. Another

important point is that all parameters are recorded and monitored centrally.

To complete the line, a pipe breaking detection system with optical technology and a gravimetric dosing system on each extruder were a must-have, for a total of seven components. The system, integrated into the main control panel, guarantees a constant advance of the raw material, and records the variations in mass flow rate, thus ensuring a perfect weight/meter and distribution of the thickness of the walls control. The downstream equipment includes Tecnomatic vacuum and cooling tanks, haul-off with cat-erpillars individually controlled by vector AC motors, and a planetary cutter with knife cutting and universal clamps, for precise cutting without pipe chips.

Tecnomatic is extremely proud to be Riccini's supplier for this last project, which highlights how quality partners and excellent teamwork are the only way to keep innovating in the plastic pipe industry.

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