

CASE STUDY PLASTICA E GOMMA **POLPLASTIC**

Polplastic S.p.A. is a leader in the design sector, of molding and painting of plastic material for the automotive industry and the household appliance industry for almost 50 years. In 1969 Valter Poletti opened his first workshop specialized in making molds for molding plastic materials. Attentive to requests coming from the market and constantly focused on the expansion of services and productive innovation, over the years the company has expanded its structure and strengthened its organization to keep pace with the most innovative developments of production and service standards.

The expansion, strong and constant, had a significant boost in recent years that led to the birth of the Polplastic Group. Today with four production plants, one of which the historic subsidiary Poletti and another two in Veneto plus one located in Umbria, the Group is one of the leaders in the sector in Italy, well-known and appreciated internationally. It offers its customers a wide range of services that range from the realization of the mathematics for a new project to surface decoration through sublimation, including mold design, injection molding, painting and various surface decorations.

Polplastic operates in the following segments: automotive (2 and 4 wheels), agriculture, gardening, electronics and vending. In 2015, Polplastic chose to rely on Atomos FT to fulfil its production monitoring and programming process improvement needs.

ANALYSIS

In order to determine the specific needs of Polplastic, Atomos FT technicians have carried out a careful analysis of the existing situation. From this phase emerged the need of a lean and effective solution to enable Polplastic to achieve a series of objectives, such as:

- » Monitoring the progress of production
- » Recording the crossing time of the works to be able to update the duration of the cycles configured on management
- » Real-time detection of machine and operator efficiency together with the machine status and general plant conditions
- » Improving the programming process by generating a production plan for the various machines and overall plant conditions. Plans that must take into account constraints of capabilities, materials and optimization rules.

In addition, the main parameters were identified during the analysis to be taken to optimize the molding phase, i.e. mold, version, material type and color.

Polplastic management also expressed the need to obtain real-time reports on productive operations and to be able to make an estimate, as correct as possible, of the industrial costs.



COMPANY
 POLPLASTIC SPA



SECTOR
 PLASTIC, INJECTION
 MOLDING E
 PAINTING IN DIFFERENT
 SECTORS



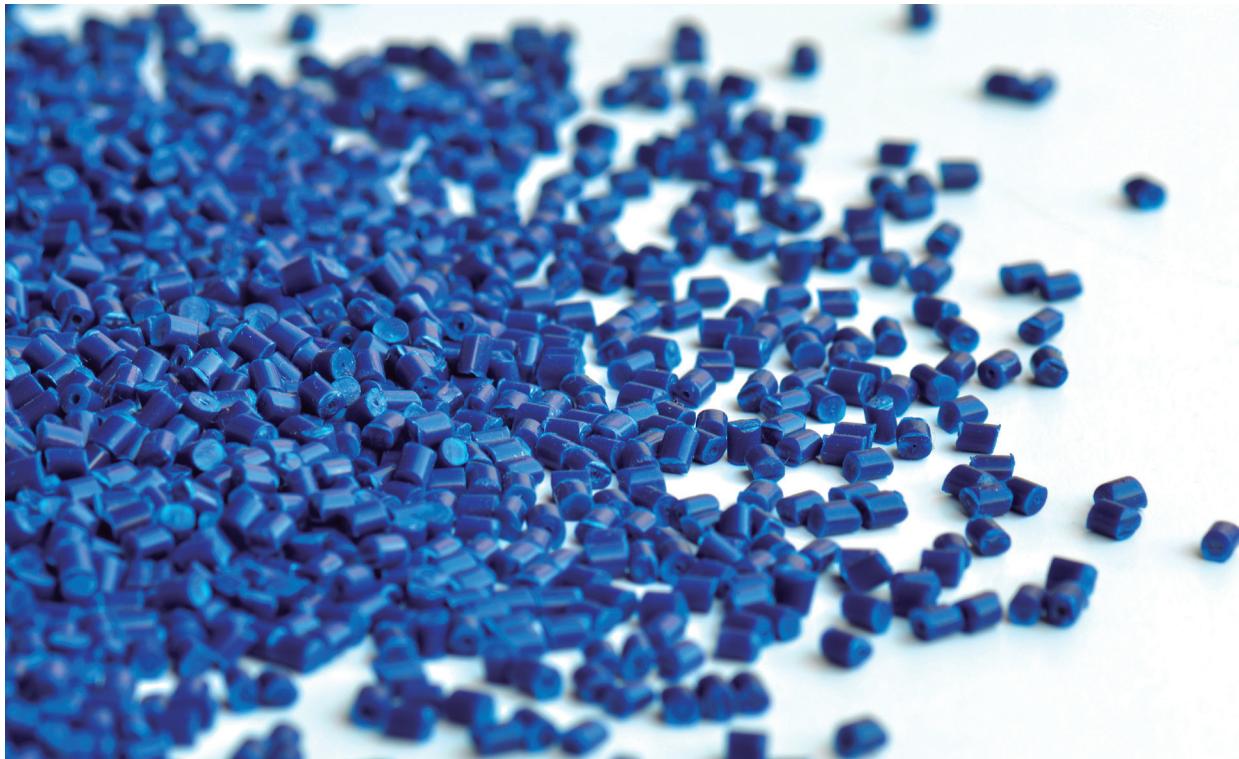
COMPANY SIZE
 34 PRESSES
 220 EMPLOYEES



TURNOVER
 € 40 MLN (2017)



SEDAPTA MODULES
 FACTORY SCHEDULING,
 SHOP FLOOR MONITOR



SOLUTION

The project went live in 2017. The monitoring and data collection application solution, thanks to the implementation of two modules of the sedApta suite, Factory Scheduling and Shop Floor Monitor, is able to acquire and distribute information related to the entire transformation process of the product, starting from the launch of production orders.

The prompt availability of the data allows an effective control of the production process by all company departments involved, allowing the company to follow and verify in real time all the activities that contribute to production plan implementation.

To improve the programming process of the production, a scheduling solution was designed and built that generates a production plan that takes into account the constraints of capacity, materials and optimization rules.

Thanks to the Atomos FT solution, Polplastic has the possibility to schedule production operations on the basis of resource calendars, order backlog and work progress with maximum operational efficiency and the minimum work in progress. As a result, the proposed production plan optimizes the sequence of production phases with the aim of minimizing waste of time due to equipment and consequent possible inefficiencies.

ACHIEVED RESULTS

Atomos FT' agile solution has become indispensable to be able to face the market with reactivity and for being able to identify the critical aspects of the production process, increasing the performance of the value chain. Polplastic's main goals have been met by Atomos FT through the implementation of a solution unique for the whole company.

The project involves all the functions involved in the production processes, increases people's know-how, equips the company with a flexible tool adaptable to production variables, allowing the reduction of production stocks and above all, the improvement of the level of service to the final customer.