

My name is **Giancarlo Barzaghi**, owner of **BSB s.a.s.** Italia.

BSB s.a.s. is a company founded in 2006, whose purpose is the creation and marketing of software for industrial automation in the plastic processing sector.

I began my professional experience in Gefran Elettronica, where, for about 20 years, I was an electronics and software technician for command and control systems applied to plastic blowmolding machines. I was a reference technician for Uniloy Comec in Calenzano (Florence), which later became Uniloy Milacron with American administration.

Following this acquisition in 2000, I became the European manager of the technical and electronics office at Uniloy.



Uniloy MSCK/D Serie 97

This was until the company decisions were oriented towards a global relocation of the production site of these machines from Italy to Czechoslovakia.

I therefore chose, based on the experience gained over all these years, to undertake a job independently and for 19 years now I have been dealing with applications on blowing machines of multiple brands for the "revamping" of obsolete electronic systems (PLC) with new Plc models.

In 2018, collaborating with a company in Bologna as a freelancer, I created a software, based on the Moog MC600 hardware in a Codesys environment, which could be adapted with a few changes to most of the blowmolding machines on the market.

This software called "UNIKO" was presented at the K Fair in Dusseldorf (D) in 2019, attracting a fair amount of interest from the public. This software is still used by another company in the sector which however has no longer continued its development, leaving it on stand-by and proposing another Plc brand.

I currently use the MC600 Plus series, also from MOOG, and based on the experience of "UNIKO", I continued the development of this idea and created "**PSB**" (**Performed Software Blowmolding**), creating an easy-to-use software package for the end operator, with a graphic interface based on smartphone App icons, totally dedicated to the production process.

The control system mainly used by BSB s.a.s. offers an answer to the growing demand for efficiency in the management of blowmolding machine automations.

The functions provided are perfectly integrated with advanced diagnostics and with the possibility of having the system controlled remotely or via the web through different services that can be activated on request.

It is characterized by a marked flexibility through the adoption of an open and standard communication protocol, such as Ethercat, which allows the integration of third-party products in the control and also through the possibility of partially or totally modifying the application supplied with the system.

The MC600 Plus system integrates an “OPC UA Server” that allows access to the main management data (MES) on specific requests.

The precision and speed of process control is ensured by a powerful Quad Core microprocessor that manages the scanning of all the phases appropriately programmed in the application software supplied with the system.

The latter is based on standard programming technologies [IEC61131-3], covering all the typical needs of this type of application and is at the same time, where necessary, customizable both in the graphic section and in the PLC code.

Finally, the use of variable-sized displays of 10-12-15” of the “touch screen” type, in combination with dedicated graphics, allows an immediate and intuitive use of the system.



Model PLC MOOG Series 600

BSB s.a.s. has always sought to build collaborations and synergies with other independent entities to integrate and provide complete services to Customers such as:

- Specialized electrical technical support for installations at their locations;
- Drafting of updated electrical diagrams with the integration of the new control system;
- Development of dedicated and customized software for the systems;
- Management and possibility of remote Tele Service via Internet connection;

This sector has always needed to renew itself and for this reason **BSB s.a.s** can find the advantageous solution to reduce time and costs, to evaluate and find together the best solution to the problems of these machines, both from a technical and economic point of view.

To date we know very well that on blowmolding machine that are many years old the weak point, where it is difficult to intervene, is the PLC control part.

This is because some electronic cards present in these systems have become obsolete or have gone out of production, so finding equivalent replacement cards becomes a kind of "treasure hunt" and, if you manage to find them (used), the proposed prices are high, not to mention the repairs carried out by the manufacturers of these systems that very often they no longer perform.

Customers often have machine downtime due to electronics or dedicated software and find themselves in the situation of replacing the type of PLC control or, for the more far-sighted, planning to update the PLC systems on these equipment.

BSB s.a.s proposes itself as a possible alternative reference for users of blowmolding machines who find themselves in this situation to offer them a ready and economically contained solution.



Magic MGL 2-3 D



Techne S/15000 Coex 3



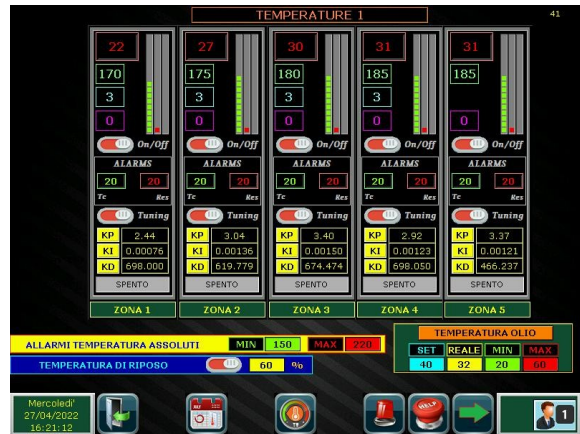
Moi 20 Lt. Accumulator



Automa AT5 Plus



Uniloy Milacron UMA 40



Giancarlo Barzaghi

Mail: bsbsas2006@gmail.com

<https://it.linkedin.com/in/giancarlo-barzaghi-47956677>