



THE HIGH STRUCTURAL STIFFNESS OF THE PROPOSED SOLUTION COMBINED TO THE FLEXIBILITY BOTH OF THE MACHINE AND OF THE COMPANY, THESE WERE THE MOST IMPORTANT RIELLO SISTEMI GOALS TO MEET THE REQUIREMENTS OF GICAR, WHICH IS SPECIALIZED IN THE PRODUCTION OF HIGH QUALITY COMPONENTS FOR SEVERAL SECTORS, SUCH AS ELECTRONIC SOLUTIONS FOR COFFEE MACHINES.

[TRANSFER]

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Rigid machine, flexible mentality

The relationship between a company and its customer today means cooperation between partners for the achievement of a common goal. This is really evident in the partnership between Riello Sistemi and Gicar, a company located in Merate (LC), which has recently installed into its production department a new transfer machine realized by the manufacturer from Minerbe (VR).

50 Years of innovation

«Gicar was founded on 1963 as a small craft company that produced electromechanical accessories for coffee machines. – as the Owner of the company Mrs. Donatella Arlati is telling us– During the first years of the Seventies we started to use the electronics for the level regulators, that already existed in the electromechanical version that could combine high performances and low price: so we needed to face and overcome the distrust of the market towards this new technology.

Thanks to a group of customers that believed in electronics, after the first level regulation solutions we have been able to evolve to the production of electronic boards that could control the whole coffee machine, ice cream machines, ovens, vending machines, and thanks to the skills learned on the market we could also give solutions for ironing machines and laundry machines.

So, starting with no more than 20 employees, we reached the present dimension of



The Riello flexible transfer offers high performance combined with great ease of use



The Gicar plant in Merate

150 people working in our company. Now we are one of the leader companies in the automation sector for different types of machines, especially for the coffee sector, which heart is the electronic board: the intelligence of the software is our biggest strength. Moreover, we are leaders for the flowmeters sector. The 90% of our production is "custom", even if we have so many

standard products in our catalogue and the 40% of our production is exported mainly in Europe, but we have customers also in China, Taiwan, Brasil and Australia, just to say some of them. Practically, we are present in the whole world».

The strengths of the company, today more than ever, «are the belief that a good product is not enough – as the General Manager

RIGID MACHINE, FLEXIBLE MENTALITY

On the left: The manufacturing department has installations of last generation such as mounting surfaces lines (SMT)



On the right: the automatic vertical cabinets simplify the management of the components



Assistant Ugo Bruzzone explains – but we need to help the customer to satisfy all its needs through a good cooperation also in terms of consultancy starting from the design phase, and by continuing with the constant commitment during the whole production process and by concluding with a prompt after-sales service.

Other Gicar strengths are the solid financial structure, careful staff training, an internal R&D dept. with more than 20 persons which can orientate the choices of the customers towards the best solutions, an internal laboratory for the pre-compliance EMC tests recognized by the Italian Education Ministry, of the University and Research. Last but not less important, the production on automatic lines both for assembling and testing ».

Certified Quality

The manufacturing department has installations of last generation such as mounting surfaces lines (SMT), automatic lines for mounting and assembling of the flowmeters, 3D optical inspection machines, in-circuit testing machines (ICT), and for the functional automatic tests. There's a main information system that uses the MRP II technology. The products are 100% tested with controls and tests during the production phases : «For the warehouse we have chosen a complete integrated system control, which has modern automatic vertical cabinets – as Bruzzone tells – The storage control is constantly monitored by a complete hardware and software system, which

controls also the finding and quick picking up of the components, semi finished and finished products ».

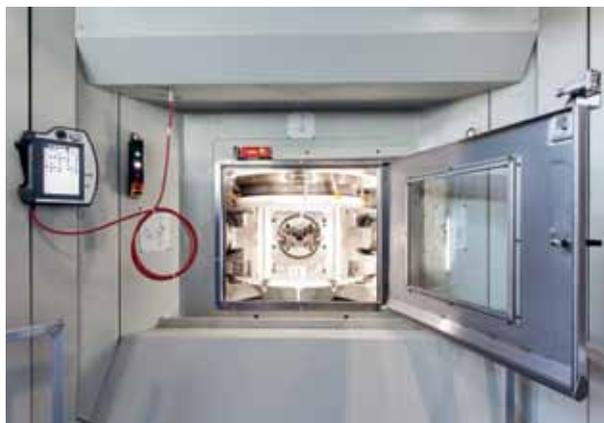
Gicar quality system is certified ISO 9001 since 1994: «We have established and put into force specific procedural paths for the control of all the company processes, in order to reach the maximum customer satisfaction and the supply of high quality products – as underlined by Mrs. Arlati – We have also obtained some international products certifications (such as NSF, UL) and when specifically requested, Gicar products are compliant to the RoHS II directive».

From brass to steels

In this picture of high technological content and strong innovative push, it's really perfect the combination with a company like Riello Sistemi. «About 20 years ago, the technological skills and the entrepreneurial ability of the founder Giuseppe Arlati have brought the company to purchase a Riello

CUSTOMER SERVICE IS A CORE VALUE FOR GICAR, FROM THE DESIGN TO THE DELIVERY

OF THE PRODUCT



On the left: the automatic assembly line dedicated to flowmeters

On the right: the Riello flexible transfer is equipped with 18 operating units



On the left: the rotating clamps are CNC controlled

On the right: Riello flexible transfer is equipped with Fanuc drive systems

THE RIELLO FLEXIBLE TRANSFER HAS A HIGH TECHNOLOGICAL CONTENT IN BOTH HARDWARE AND SOFTWARE

Sistemi transfer machine that was dedicated to the processing of some components of ours made of brass, and it keeps on working very well.- as Mrs. Donatella Arlati tells – Today we need to process other types of materials for realizing innovative products and in compliance with new standards. These materials have higher mechanical features and are more complex to process comparing to brass. So we have decided to install a new flexible transfer machine which is really suitable for processing these materials, and it can give also an increase on the production capability, another important goal since we keep on growing our production volumes». The obtained advantages have exceeded all the wildest expectations: besides processing different materials with amazing results, which was the most important motivation that pushed Gicar to update its production machines, the new flexible transfer can reduce the processing times, the use of labor for time unit, the tooling costs, it can reach a very high quality level and it can realize geometries not obtainable in the past. The most fascinating features of this machine perceived by company Gicar: the constructive quality of the machine and its flexibility features, the quality level that it can reach, the possibility to develop new products and the easy way of programming thanks to the CN interface man/machine of last generation.

72 controlled axes

In detail it's a machine with 8 stations with rotating clamps full CNC, table with "Dual Drive" movement, 18 operating units, of which 13 on work centres, heads to face full CNC for the execution of grooves and profiles. It's a solution designed to grant high quality in time, thanks to particular technical solutions, such as preloaded roller guides of considerable dimensions, on which the operating units have been mounted, with a pressurised integral guide tube that prevents the infiltration of coolant liquids. There is a fume extraction system that, combined with a cooling chiller, can keep controlled the temperature in the sensitive parts of the system, thanks to the installation of particular probes in the machine and in the environment.

The chip control has been improved, with a series of special features that can give an easy evacuation, not only with traditional brass but also with more important alloys. The machine is equipped with a servo line CN Fanuc of last generation, data transmission through optic fiber and Fanuc robot, for a total integration between hardware and software.

Only 1 operator controls the whole system, which is completed with a washing machine, for the degreasing of each piece, and exhaust buffer to keep on working without supervision.

A solution with high technological content and carefully designed both for hardware and software, as shown by the user friendly interface, RUI 3D, with assistance features that help the most skilled operators, by supporting them in the correct execution of preventive and predictive maintenance or in the programming.

Excellent service

Gicar has been satisfied by Riello Sistemi also for its offered services: «During the pre-sales phase we have been protagonists in the definition of the technical specifications of the machine for our present needs, but especially for the future needs that have been identified – as Mrs. Arlati explains – During the after-sales phase, Riello has trained our staff, performed the machine test by producing several hundreds of pieces, by giving us the chance to optimize the production cycles and has followed the putting into production. We have also very appreciated the remote assistance service, which remains free of charge also out of warranty, and it can reduce the times of machine stop, besides the undoubted speed and efficiency in the interventions in order to understand quickly and much better, where and how an action is required.

Riello Sistemi has always been by our side: during the months of comparison and continuous testing phases, we even got to rotate the vise from station to station to look for the balance of the operations and a more aggressive cycle time, in order to optimize the tools usury and to give a longer lifetime and performance to the machines. A very excellent service».