

## SERVING ALUMINUM, PVC, ALLOYS, AND OTHER PROFILE MANUFACTURING

The new 4 and 5 axes machining centers by Pertici Industries take advantage of the flexibility and versatility of the OSAI OPENcontrol product line. The CNC system is highly scalable and based on various hardware platforms, able to satisfy a wide range of operating needs.

Working on the design and production of machines and systems for aluminium and PVC profiles manufacturing, Pertici Industries, located in Certaldo (FI, Italy), develops and implements cutting-edge technologies, ensuring a global service that includes assistance, after sales, installation, prompt support and educational training. Thanks to its international distribution network, and with almost fifty years of activity, this company can count on tens of thousands commissioned machines all over Europe, America, Africa, Asia and Australia. A range of solutions which includes the new family of CNC machining centers with 4 and 5 axes, suitable for milling, drilling and copying operations on parts and bars not only in aluminum, but also in PVC, light alloys and steel.

*«The development of this project - confirms Eng. Maurizio Cei, Pertici Industries CEO - lasted for about a year, followed by another year for the fine tuning».*

Cross-fielded skills of mechanical and electronic engineering, led to a reliable and high quality range of products which confirmed the already well know reputation of the company in the international market of cutting machines, single & double cutting-off machines, and automatic cutting centers.

*«This new project - confirms Eng. Cei - led to a new product development strategy, which identifies in the working centers completion of the main operating needs of our customers, giving them a product so far supplied by the competitors».*

Machines are characterized by hardness and ease of use, two properties very appreciated by the market, besides being equipped with the OSAI OPENcontrol CNC, chosen in its OPEN-XS version.

### *The entry level you do not expect*

The OPENcontrol products range is able to satisfy many different application requirements, starting from the OPEN-XS model, used for all the new Pertici working centers. A CNC entry level is able to offer all the main characteristics of the NC family: high processing performances, complete compatibility with the ISO language, compliance with standard networks TCP/IP protocols, advanced software functions for movement management, dll libraries to communicate with the CNC from standard programming ambient. Based on Intel Atom 1.6 GHz, OPEN-XS is able to simultaneously manage two processes (each one with an ISO program) and up to 8 interpolated axes. Thanks to specific technical peculiarities, it allows obtaining high precision during the production and optimizing machining centers management: management of gantry and dual axes; look-ahead with 256 pre-calculated blocks; Velocity Feed Forward; Jerk control using advanced algorithms; management of tool magazine, tool life, random tool, multi-pocket tool; multi-axes electronic CAM; cross compensation. The customization is instead completely supported by a configurable graphic HMI and an embedded PLC, offering not only the real-time multi-task execution, but also up to 250 tasks with 10 priority levels, task cycle time with a minimum programming of 500 µsec, more than 450 available functions and the possibility to add algorithms from external software. Furthermore, the CNC itself has the possibility to control various axes types, EtherCAT, analogic, Pulse/Direction (version chosen by Pertici for its working centers), CANopen and Mechatrolink, giving a great freedom of choice.

### *Innovation and continuous evolution*

Operational freedom in line with the strategic targets followed by Pertici, always more oriented to the study and the development of product allowing a higher degree of automation for their customers' processes.

*«The choice of installing OSAI CNC - points out Eng. Cei - has been made for all machines produced nowadays by our company, in order to give our customers an improved producing efficiency, maintaining high quality standards. The products are completely assembled by Pertici and they are 100% Made in Italy: high quality supply is chosen in order to guarantee great satisfaction of the customer».*

This new family of machining centers is characterized by high construction quality, great reliability and excellent ease of use, such as the other machines produced by the Tuscan manufacturer.

*«In a perspective of innovation and continuous evolution, - concludes Eng. Cei - new projects are under development for the manufacturing of even better performing machining centers, with higher automation degrees, having once again OSAI as a qualified partner, able to support us in the choice of the most suitable CNC for the required performances».*

The strength of the OSAI brand is to provide high quality, modular, and reliable products, but also to follow its customers during all stages of the machine development and commissioning, giving prompt support to the manufacturer in case of need.

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