

FLEXIBILITY AND VERSATILITY TO SHAPE IDEAS

In order to offer the woodworking industry more innovative machines, the Spanish company, Intorex equipped its new machining centre with OSAI OPEN-M CNC. This selection was the right choice to improve operating features in multiple machining of complex parts, with a single clamping and automatic cycle.

As a key player in the Spanish marketplace for 30 years, Intorex has specialised in producing and selling worldwide woodworking machinery: lathes, drilling and sanding machines, machining centres, and special machines. Intorex machines can satisfy the most demanding application requirements, offering an added value particularly for technology and process/product quality. In this scenario, Intorex constantly aims to offer innovative technology on advanced and high performing machines, such as TMC-1500. TMC-1500 is the innovative CNC machining centre for the mechanization in one single clamping and in automatic cycle of all type of columns, staircase pillars, table and sofa legs, etc.

“Versatility and easy programming are key features for this new machining centre- says Ramon Tor, Intorex Technical Director- being a very flexible machine and recommended to produce small and medium series of parts or multiple machining on complex pieces.”

The machining centre TMC-1500 has 5 interpolated axes and a total of up to 8 axes controlled by CNC that allow turning, milling, shaping, sanding and drilling of any type of leg or column with the possibility to machine a different profile on each face of the piece. The machine is highly flexible thanks to OPENcontrol CNC by OSAI where Intorex has selected the OPEN-M model together with the OPENrio SL I/O modular system.

“OPEN” by name and by nature

OPEN-M CNC is equipped with Intel Celeron-M 2.0 GHz CPU, which suits the development of complex applications, having computing power fitting multi-process working centres with several axes (up to 32, and up to 4 parallel processes). The software structure with dual operating system Windows CE and Windows 7 (WES7) is available for the simultaneous execution on the same hardware, both in CNC real time applications and market software for Windows™.

OPENrio SL is an I/O modular system extremely compact, chosen by Intorex and controlled by EtherCAT fieldbus, installed on a standard DIN rail 35mm.

The system is composed of a wide range of modules allowing the use of several application fields: EtherCAT bus coupler, digital and analog I/O modules, temperature sensor module, relay output and input modules, PWM output module, encoder input module and power module.

“We decided to equip our machines with solutions provided by OSAI, not only because of the modern digital technologies offered, says Tor, but also because we wanted to improve quality and performances to comply with the most diverse customer application requirements.”

Thanks to their “open” design on the same platform, the solutions offered by OSAI can adapt and quickly change different system architectures according to the specific machine configuration.

For example, with an easy customization, it is possible to manage both linear and rotary tool changes with no modification to the PLC.

The added value of the right partnership

Thanks to their reliability and versatility, the OPEN-M CNC and the modular I/O system OPENrio SL give Intorex technicians flexible tools and high level technology, allowing the Spanish company to present innovative machining systems in the woodworking marketplace.

“Thanks to the strict cooperation between OSAI and Intorex engineers, OSAI solutions have been successfully implemented and installed on our machines, continues Ramon Tor, the right partnership fulfilling our growing strategy and our willingness to always offer innovative products and projects, where we would like to continue installing OSAI systems, following the successful outcome of TMC-1500 machining centre”.

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