Mubea Systems S.A., an enterprise with family ties to the Haco Group, manufactures a complete range of four- and five-axis CNC machining centers especially designed for the various machining tasks required in manufacturing the exceptionally long aluminum and steel profiles used in transport systems such as high-speed trains, trams, and underground rail systems.

Cost-effective production and speedy delivery

Mubea selects exclusively high-quality components and software to provide flexible and reliable CNC machines for the transport industry. Its product line includes the four-axis Alu-Flex gantry, the five-axis Profile-Flex C-frame, and the five-axis Multi-Flex gantry. “At the very top of our product line is the five-axis Mega-Flex,” says Frank Havegeer, CEO of Mubea Systems. “It’s a unique profiling machine center with a patented double x-axis, providing higher dynamics and improved capacity. Thanks to an extra, double vertical clamping device on the column, the Mega-Flex meets the highest standards in machining speed and finishing accuracy.

Like all Mubea machines, it is supplied in 30- or 60-m lengths, with one or two heads that work either together or separately. This twin-head solution offers even more speed and flexibility, allowing us to meet the needs of the transport industry: speedy delivery, cost-effectiveness, and quality.”

Sinumerik 840D sl helps Mubea Systems tailor its products to the needs of customers in the fast-growing mass transportation market.
To enable the milling of long profiles for customers, Mubea Systems relies on the open control architecture of Sinumerik 840D sl.

**Consistency provides for continuity and stability**

Sinumerik 840D sl, in combination with the advanced Sinamics S120 drive technology, is the preferred control solution for all Mubea machines. Having used power line before, Mubea wanted to upgrade to solution line in October 2012. “Even while we were taking our first steps in the world of aluminum and steel extrusion, Siemens immediately understood our ambitions,” Havegeer recalls. “We have enjoyed their support and dedication ever since.” Besides CNCs, Mubea also relies on Siemens for other components such as Sirius low-voltage equipment and Sitop power supplies. According to Havegeer, the positive experiences with the Sinumerik CNC were key to realizing the upgrade to solution line – along with the option to create continuity and stability across the company with one integrated system. “Sinumerik 840D sl provides all the accuracy, scalability, and performance our customers need, while offering great value for money,” says Havegeer.

The implementation of the new system took less than two weeks. Dirk Algoet, who is responsible for engineering and automation at Mubea, considers the openness and flexibility of Sinumerik 840D sl to be its biggest assets. “We deliver our machines with custom-made CAD/CAM software,” Algoet explains. “It offers dynamic programming characteristics and allows our customers to easily control their machines, using helpful 3-D profiles.” Thanks to the open systems architecture of Sinumerik 840D sl, Mubea can now easily incorporate its competence and expertise into the end product. The result is a uniform and user-friendly interface for operation, programming, and visualization. “The systemwide openness of Sinumerik 840D sl enables us to develop better machines for our clients,” summarizes Algoet.

**Expansion of the product portfolio planned**

Mubea Systems has regional offices in Belgium, Germany, the United States, Canada, and China. It delivers machining centers in 10 countries, amounting to an export rate of 99 %. Needless to say, international customer support is of paramount importance to the company. “We have qualified personnel who visit clients when, for example, tailor-made machinery is needed,” says Kris Rosseeuw, who is responsible for service at Mubea. “For everyday technological issues, however, the Siemens service contracts offer a huge advantage.” Around the globe, customers can count on fast and sound support by Siemens engineers, making Mubea Systems a partner they can rely on.

In the coming years, Mubea will further expand its product line, mainly focusing on five-axis machines and developing new machinery for high-speed cutting of solids in aluminum and new materials like titanium. “We are continuously developing our product portfolio to explore new markets,” marketing director Jim Bogaert explains. “Drawing on Siemens’ expertise and the extensive support we already receive, we are confident that we can rely on Siemens as a trusted partner in the future.”

**INFO AND CONTACT**

siemens.com/sinumerik
stein.monserez@siemens.com

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Frank Havegeer, CEO, Mubea Systems