Siemens presents machine tool solutions that increase aerospace part manufacturing productivity

At this year’s AERODEF conference in Long Beach, California, Siemens will demonstrate new CNC solutions and services for machine tool builders and end-users. Under the theme, “Productivity in motion,” the presentation will focus on turnkey solutions for the aerospace manufacturing industry.

For the aerospace market, the Sinumerik 840D sl offers the latest in CNC technology that increases machine tool performance and user productivity. The 840D sl is a universal and flexible CNC system based upon the innovative Sinamics S120 drive platform that can be used for up to 31 axes. It is a distributed, scalable, open and interconnecting system offering a wide range of specialized functions for milling, drilling, turning, grinding, handling and robotics technologies. It offers users innovative features that increase productivity on the manufacturing floor, especially the challenging aerospace segments of high-speed and five-axis machining.

For the job shop, the Sinumerik 828D numerical control is the ideal CNC solution for mid-range machine tools. It is designed to address the needs of complex milling and turning machines in the job shop segment by combining CNC, PLC, operator panel and axis control for six CNC measurement circuits into a single, robust operator panel.
The 828D is capable of full graphical, high-level language command and supports ISO programming that is customary in the United States. Programming time can be further reduced for small-batch production with the use of the ShopMill and ShopTurn graphical workstep programming system, while high-level language programming can be used in conjunction with programGuide to significantly reduce programming times for large-scale serial production.

With the introduction of the Sinumerik 828D, extensive online help animations and a new type of input prompting system with moving picture sequences provide the basis for exceptional user convenience. USB, Compact Flash (CF) card and Ethernet ports enable high-speed data transfers onto storage media or integration of the control system into corporate networks.

SOLUTIONS FOR CNC TRAINING

Recently introduced to the American machine tool industry, and based upon the new Sinumerik Operate graphical user interface, SinuTrain is the ideal solution for control-identical CNC training.

With SinuTrain, actual NC programs are developed and simulated, to speed the program generation protocol. In this manner, machine tool operators not only learn the control language commands, but they also visualize part programs on a PC screen that are identical to the machine tool’s screen. As an additional benefit, programs generated through SinuTrain can then be used on actual machines.

Offered in several languages, SinuTrain is available for different needs and budgets including a trial version, a study version, a single-user license and an educational license.

For more information about advanced CNC solutions for the aerospace industry, please visit: www.usa.siemens.com/aerodef-pr.
Siemens Industry, Inc. will demonstrate how productivity, flexibility and safety can be increased in CNC production when manufacturing parts for the aerospace industry.
Siemens Industry Sector is the world’s leading supplier of innovative and environmentally friendly products, solutions and services for industrial customers. With end-to-end automation technology and industrial software, solid vertical-market expertise, and technology-based services, the sector enhances its customers’ productivity, efficiency and flexibility. With a global workforce of more than 100,000 employees, the Industry Sector comprises the Industry Automation, Drive Technologies and Customer Services Divisions as well as the Metals Technologies Business Unit.

The Siemens Drive Technologies Division is the world’s leading supplier of products, systems, applications, solutions and services for the entire drive train, with electrical and mechanical components. Drive Technologies serves all vertical markets in the production and process industries as well as the infrastructure/energy segment. With its products and solutions, the division enables its customers to achieve productivity, energy efficiency and reliability.

###