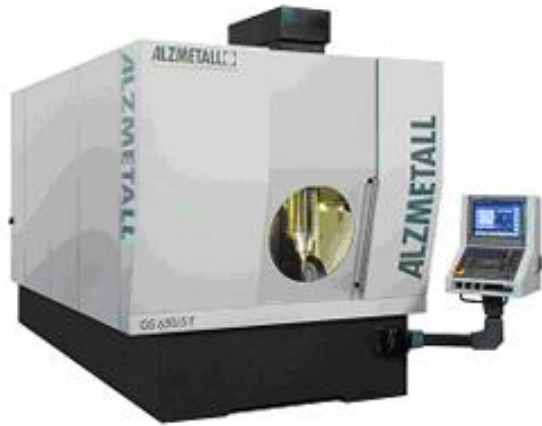


AMB 2010 in Stuttgart, Germany: ALZMETALL introduces GS650/5-FDT multi-tasking center



ALZMETALL continues the development of extremely rigid, high performance 5-axis CNC machining centers by introducing a new GS 650 multi-tasking center. This extends the range for the GS series ALZMETALL machining centers towards more economical small part machining in one set up. Full feature turning combined with full feature 5-axis milling capacity for complete multi-task machining. The ALZMETALL GS gantry series has a field proven reputation for highest precision, leading in machine dynamic and rigidity for more productivity.

The GS650 offers an axis travel range of 650/650/550mm or 25.6/25.6/21.6 inch, full feature CNC-turning, and CNC 5-axis contour milling.

Design concept - The ALZMETALL GS overhead gantry design first achieved its recognition from a German design award, and has field proven it's rigidity and dynamic advantages since. Like all GS series centers, the new GS 650 features a rigid cast iron design, with rotary torque axis motors integrated in the sidewalls of the machine base. With a part swing capacity of 800mm (31.5 inch) around the vertical C-Axis, and 950mm (37.4 inch) clearance radius around the A-axis, the usable Y-axis travel, when the table is tilted to 90 degree, is 425mm (16.75inch) of the 650mm (21.6 inch) Y-axis travel installed. The overall machining capacity for the ALZMETALL GS650 is leading in the industry for this class of machine.

High Torque – Direct Drive Technology in all rotating axis - The A-axes, and the C-axis are powered by rotary torque drives. In addition to highly dynamic milling feeds, the C-axis torque motor also offers high-speed turning. This makes it a full featured horizontal/vertical multitasking center, tuned for high performance for roughing and finishing.

Application and Industries - The many outstanding design features of the ALZMETALL design benefit productivity and machine cutting dynamics, especially for the machining of complex precision work pieces. This universal CNC machine concept from ALZMETALL is for high capacity roughing and finishing, including highly dynamic milling or turning. Applications are especially in the precision part making industry, where high machining volumes, and close tolerance parts are the norm, like in the high performance machine tool industry, the space- and aircraft-industry, the automotive industry, the engine manufacturers, the tool & die industry, and the medical parts industry.

Technical Data Overview:

Axis travel range in X / Y / Z	650 / 650 / 550 mm (25.6" / 25.6" / 21.6")
Milling spindle speed up to	10,000 rpm or higher
Milling spindle motor power, S1/S6	9 kW / 12,5 kW (12HP / 17HP)
Milling spindle torque, S1/S6	55 Nm / 80 Nm (40.3 ft.lb. / 59 ft.lb.)
A-axes feed range up to	50 rpm
A-axes torque at continuous duty	600 Nm (1180 ft.lb.)
A-axes torque max.	2800 Nm (2036 ft.lb.)
C-axis turning speed up to	800 rpm
C-axis torque at continuous duty	540 Nm (398 ft.lb.)
C-axis torque max.	1020 Nm (751 ft.lb.)
Table top diameter	470 mm (18.5 in.)
Table load capacity	500 kg (1100 lb.)
CNC-control	Siemens 840 DsL

To find out how you can benefit with the ALZMETALL GS series, please contact your ALZMETALL distributor.