

Press Release

August 24, 2010

The DMU 50 eco 5-axis machine joins the DMG ECOLINE with excellent cost performance

Mori Seiki Co., Ltd. (hereafter, "Mori Seiki") will start taking orders for the **DMU 50 eco** CNC 5-axis control machining center made by GILDEMEISTER AG of Germany (hereafter, "DMG"), from August 24, 2010.

With the recent increasing demand for low costs, high quality and short delivery time for parts machining, it is important to reduce total running costs by reducing fixture costs and setup time, and by improving accuracy through machining in one chucking. For customers who are considering replacing their vertical machining centers to 5-axis machines to meet the demand, we recommend choosing the DMU 50 eco, a smartly-priced, entry-level machine. We recommend this machine for even those who are unfamiliar with 5-axis machines because its machining ability and accuracy are as good as those of a vertical machining center.

The DMU 50 eco, which uses the same configuration with the DMU 50 and is equipped with well-chosen functions necessary for indexing 5-axis machining as standard, offers excellent cost performance.

The machine uses an NC swivel rotary table with digital drives as standard. The NC swivel rotary table consists of the B-axis with the tilt angle from -5° to +110° and the C-axis that can rotate 360°. The B-axis, which can tilt another 20° from vertical position, allows back side milling and flexible indexing 5-axis machining by combining with the C-axis. In addition, the machine is equipped with a spindle with the maximum rotational speed of 8,000 min⁻¹, tool magazine with a tool storage capacity of 16 tools and manual pulse handle as standard. The machine equipped with functions and features required for 5-axis machines contributes to reducing the total production time from purchase of raw materials to finished products. We have also prepared options including direct scale feedback specifications and various automatic measurement devices for customers who seek higher precision.

What's more, the DMU 50 eco achieves both space saving and excellent operability by using a cantilevered table and wide-opening front doors offering excellent accessibility to the table, thereby maximizing productivity per unit area.

With a strong partnership with DMG, Mori Seiki will continue to provide an extensive product lineup to support many more customers' production sites.

Type	CNC 5-axis control machining center
Model	DMU 50 eco
Market	General parts (tools, fixtures, dies & molds, etc.)
Orders start	August 24, 2010
Sales	5 units/month

■ Major Specifications

Axis travel (X/Y/Z)	500/450/400 mm
(B/C)	-5° to + 110°/360°
Max. workpiece size	φ 550 mm x 450 mm
The distance from floor to table surface	789 mm
Max. spindle speed	8,000 min ⁻¹
Spindle drive motor	13/9 kW (40 %ED/100 %ED)
Rapid traverse rate (X/Y/Z)	12,000/12,000/12,000 mm/min
Tool storage capacity	16 tools



Fig.1 Exterior

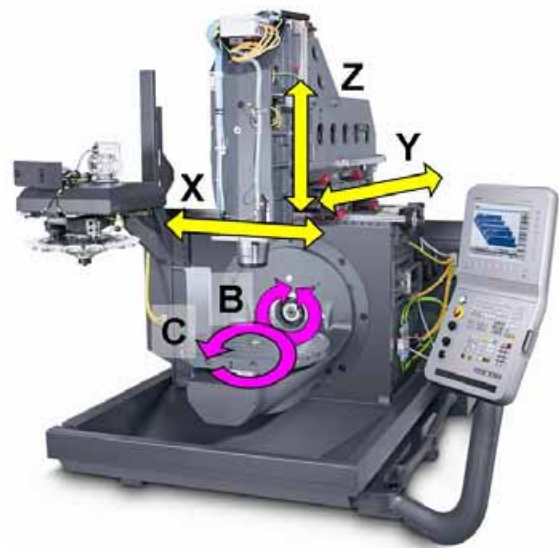


Fig 2. Axis structure



Fig. 3 5-axis machining example