

5-axis CNC Machining Centre MD 6 for the use in the field of composite machining

Applications

The stationary gantry machine MD 6 is a high-performance CNC milling centre for 5-axis machining, and is preferred by manufacturers in composite machining sectors.

This full-featured 5-axis machining centre is based on a proven concept. The machine structure is very rigid, made of welded and stabilized steel, allowing quick displacements and granting the maximum stiffness of the structure.

MD 6 is designed using turning table structure, with homonic motor, endless rotation, the operators can easily load, clean and maintain the table.

Latest Technology

High-tech supporting higher efficiency and the environment

- The mono block design offers the best conditions for ultimate machining quality at maximum operation feeds
- The machine is equipped with rack and pinion drives for the X-axis, ball screw spindles for the Y- and Z-axes and hollow shaft drives for the A-/C-axes
- We configure and equip the machine to customer specifications. The technically optimized components you can choose from are geared to real-world needs. The MD 6's excellent mechanics, electronics and low-maintenance components ensure process safety and economic efficiency

Green technology:

- Innovative electronic systems such as a frequency-controlled vacuum pump and MAKAs energy-saving concepts contribute to low energy consumption
- MAKAs was granted the Environmental Award of the Federation of German Industries (BDI)



Technical data

	Working area-cube	Working area-cylinder	stroke
X-axis	400 mm		1040 mm
Y-axis	400 mm		700 mm
Z-axis	300 mm	300 mm/Φ 600mm	650 mm
A-axis			165°
C-axis			∞

Voltage	Voltage deviation	Installed output	Ambient temperature	Pneum. working pressure
380 V	+/- 5 % max.	Approx. 37 kW	10-35 °C	6-8 bar min.

Additional optional features

Table designs

- turning table
Made of aluminum, diameter of table Φ 600mm, rotational speed 70 rpm, endless rotation.
- vacuum clamping circuit
- claw type, dry vacuum pumps, air-cooled, max. suction power 250m³/hr, Including 500 litre reservoir tank.

Working unit

- working units for 5-axis milling, infinitely variable speed, water-cooled
- milling spindle HSK F63, 7.5 kW, rotational speed 2,000 to 24,000 RPM
 - available optional laser cutting head, Install Laser cutting head instead of spindle for mechanical cutting, Easier for clamping, No machining force and No burrs.
 - Vibration Protection System
 - De- ionizer
 - air blowers
 - Cooling unit, The cooling system consists on a closed loop self-contained refrigeration system.

Tool changer

- trammel -type magazine with 10 tool places

Occupational health and safety

- Sheet metal housing
- Enclosure
- Sliding door

Control system

- Siemens SINUMERIK 840D SL
- Siemens OP 19A PCU (with PC)
- Siemens HT 8 (without PC), hand operating panel with 7.5" touch screen
- Preparation for remote maintenance (via Internet portal)
- Network ready

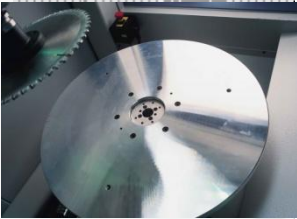
VIKA International Limited

Room 1501, HK Worsted Mills Building 31-39
Wo Tong Tsui Street, Kwai Chung, Hong Kong
Phone: +852 2212 8888
Fax: +852 2212 8882
www.vika.com.hk



CNC - Spezialmaschinen

Table designs



Turning table

Working unit



7.5 kW HSK F63



Laser cutting head

Tool magazine



Trammel -type magazine with 10 tool places

Control systems



Siemens HT8



Siemens OP 19 A PCU



BWO RC 910



BWO CNC 920 /
BWO CNC 930

State-of-the-art control system technology by Siemens or BWO. Machine can be interfaced with CAD via post-processors.

Subject to technical modifications. 01/2014/1.000



VIKA International Limited



Partner of the Engineering Industry
Sustainable Initiative

[MD6]

CNC machining centre with
5-axis technology

by **MAKA**

