

CNC Turning- and Milling Center

Stock number:	1350-439
Type of machinery:	CNC Turning- and Milling Center
Manufacturer:	MONFORTS
Type:	DNC5
Year:	2000
Control unit:	CNC
Maker of control unit:	SIEMENS 840D
Country of origin:	Germany
Item location:	Hamburg
Delivery time:	Immediately
Freight basis:	Ex site



Seller



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techn. Details

turning diameter:	520 mm
turning length:	600 mm
control:	840
Max. swing diameter:	560 mm
Max. tool swing diameter:	695 mm
Travel z-axis:	600 mm
Travel x-axis:	260 mm
Travel y-axis:	+50 mm
Max. Spindle distance:	1460 mm
Spindle nose Spindle 1/2:	DIN55026-A8
Max. bar capacity for rolled material:	82 mm
Max. Bar capacity for bare material:	85 mm
spindle diameter in front bearing:	130 mm
Max. feed capacity Z- axis:	13,6 kN
Max. feed force X-axis:	7,2 kN
Max. feed force Y-axis:	7,2 kN
Rapid movement Z-Achse:	15 m/ min
Rapid movement X- Axis:	12 m/ min
Rapid movement Y- Axis:	6 m/min
Tool revolver 1 and 2:	nach DIN 69880
Shank diameter:	40 mm
Number of tools in turret:	12
Number of driven tools in turret:	12 + 12
Capacity 100%ED:	5,8 kW
Capacity 50%ED:	8,8 kW
Max spindle speed:	3000 min-1
3-jaw-power chuck: diameter:	315 mm
hydraulic oil -return cooling unit:	ca. 100 l
capacity of normal cooling tank:	ca. 430 l
Dimensins of the machine (LxWxH):	5860 x 2470 x 2510 mm

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Weight of the machine approx.: 15500 kg

Zubehör

6 pieces driven axial tool holders:

2 pieces driven radial tool holders:

Tool holders for external tool holders: 6

Tool holders for internal tools: 9

Tool holders for full drills: 2

8 sets hard jaws for different diameters:

Approx. 30 sets soft jaws for different diameters:

Measuring mandrel for aligning the driven tools:

Description

The machine is in very good condition for its age.

The machine beds are designed as 60 ° inclined beds and have excellent vibration damping thanks to their robust box-shaped welded construction in conjunction with the reinforced concrete base! The machine forms a transport unit, which means that all assemblies except for the chip conveyor are mounted on the reinforced concrete base with a 3-point support.

The machine consists of two separate guide columns, which are guided horizontally opposite each other, each with a built-up main spindle (Z1 / Z2 axis) and two tool disc turrets with tool drive, each built on a cross slide (X1 / X2 axis). The cross slides for the Y / Y2 axes are built on the cross slide of the X1 / X2 axes!

A partition with a transfer or passage opening that can be opened or closed automatically by means of a closure disc enables the entire work area to be divided. This creates two fully-fledged, independent rotating cells. While e.g. A workpiece is machined in one turning cell, the other turning cell can be loaded and unloaded. In the case of complete workpiece machining, the workpiece is transferred from one spindle to the other with the transfer opening open by moving the longitudinal slides and the synchronous running of the clamping devices. Both spindles are each equipped with a C-axis and a holding brake. The spindles are driven by a three-phase motor mounted on the longitudinal slide!

The longitudinal slides of the Z1 and Z2 axes are each guided hydrostatically on a rigid guide column clamped at the ends in the machine beds. The forces that occur perpendicular to the Z axis during machining are absorbed by the hydrostatic. The hydraulic oil pump supplies pressure oil to the pockets built into the bore walls of the longitudinal slide. The hydrostatic guide is maintenance and wear-free! The longitudinal slide is secured against rotation by a pretensioned roller guide attached to the longitudinal slide in conjunction with a hardened and ground steel strip that is screwed to the machine beds. The longitudinal guides are covered with telescopic metal sheets to protect against dirt and chips. The longitudinal slide is driven by a three-phase motor via toothed belt and ball screw spindle. The distance measurement in the Z1 / Z2 axis is carried out by a rotary encoder integrated in the feed motors.

The cross slides of the X1 and X2 axes are each guided on a console in preloaded roller bearing guides. The consoles are mounted on the machine beds. Prism rails and overflowing angle needle cages serve as guide elements. An adjustable prism rail attached to the cross slide is used to pretension the guides. The inevitable guidance of the needle cages by racks and gears prevents the needle cages from running out of the guide rails.

The guides are covered with telescopic metal sheets to protect against dirt and chips.

The cross slide is driven by a three-phase motor via toothed belt and ball screw spindle. The distance measurement in the X1 / X2 axis is carried out by a rotary encoder integrated in the feed motors.

The lubrication of the ball screw spindles and the guides of the cross slide is carried out by the automatic impulse lubrication systems.

The cross slides of the Y axes are built on the cross slides of the X axes. Travels of + -50mm are possible in the Y1 / Y2 axis. The cross slides of the Y-axes are each guided on a console in preloaded roller bearing guides.