



MU TechSeries

5-Axis Machining Center



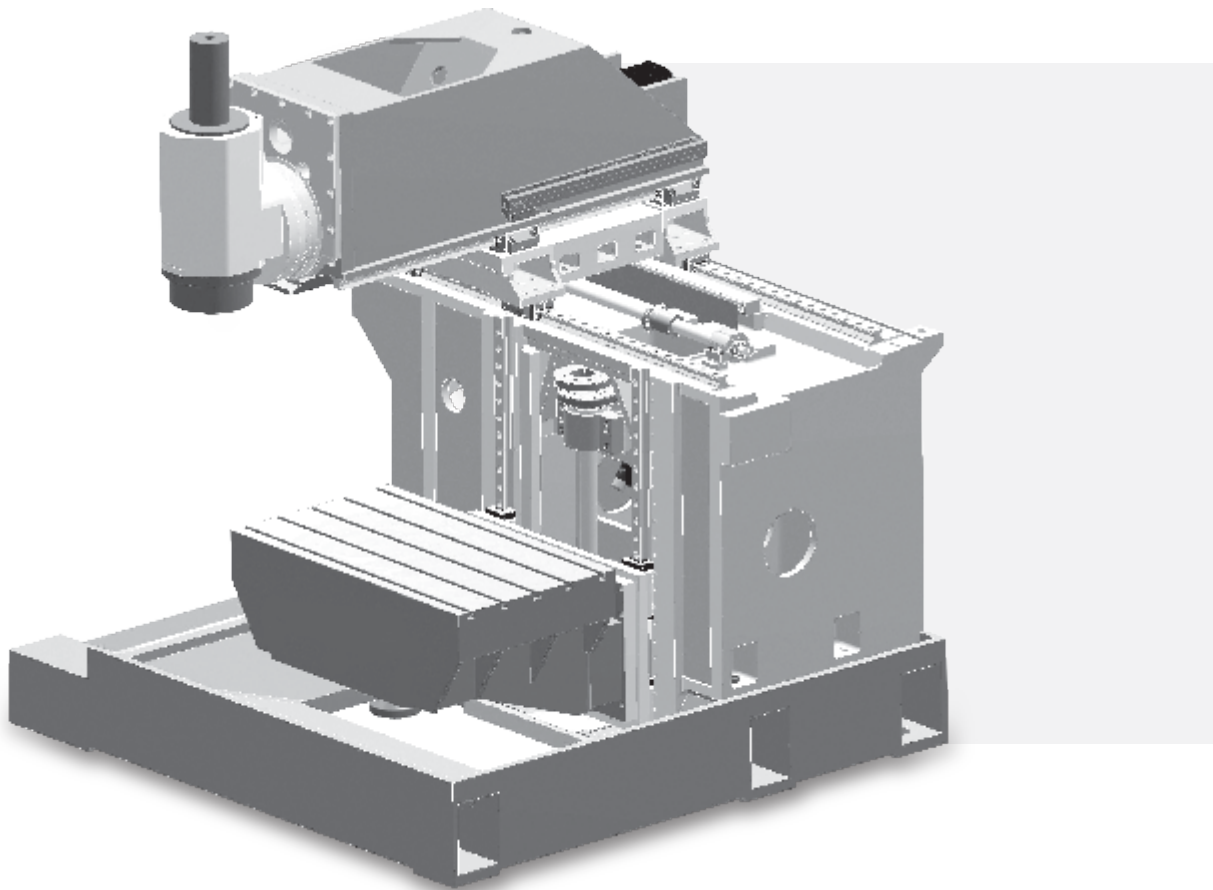
MU Tech Series

5-Axis Machining Center

OVERVIEW

The MU Tech Series machines offers a one stop solution of versatile milling operations with geometrical accuracies, bigger clamping surface, with high speed and power. Thus with this versatile machining features, large components to complex 5-Axis components can be machined in the shortest cycle-time with highest accuracies.

The symmetrically designed heavily ribbed cast iron structure provides high level of geometric stability and wider door opening for easy accessibility thus making MU Tech the ideal choice for modern machine shops.



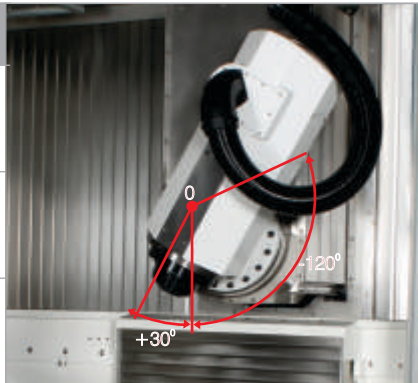


STRUCTURE

The frame accommodates all the axes required for movement. The 1000 x 600 mm fixed table travels up to 560 mm vertically. A transverse saddle with a 750 mm stroke is surmounted by a ram travelling up to 560 mm. All structures are made of heavily ribbed cast iron ensuring a high level of machining stability, thanks to the excellent damping capacities of the material, and geometric stability as a result of the symmetric architecture. All movement are driven by high performance ballscrew and are controlled by encoder.

TILTING HEAD (B-AXIS)

Tilting Head on Y-Axis Enabling Machining on 5 Sides	
Tilting Head with Spindle in Vertical Position 0°	+30° / -120°
Rotating Speed	35 rpm



FIXED TABLE WITH INTEGRATED ROTATING TABLE (C-AXIS)	
Fixed Table	1000 x 600 mm
Rotating Table	Ø 600 mm
Max. Workpiece	Ø 800 x 550 mm
Max. Admissible Load	500 kg
Rotating Speed	40 rpm

AUTO TOOL CHANGER

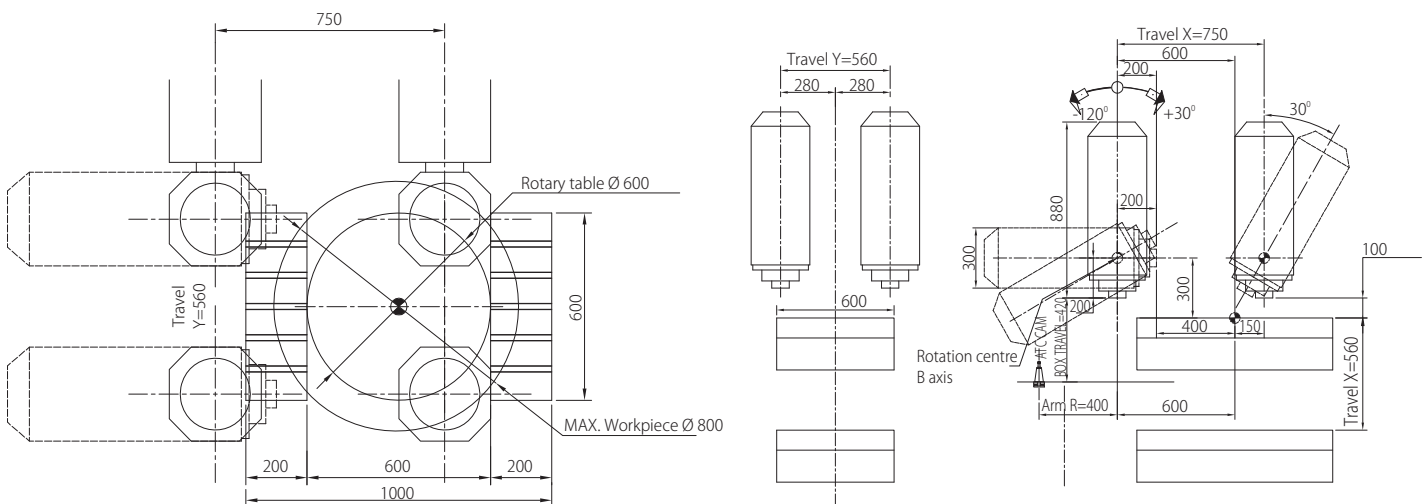
Drum Type Tool Changer with Double Arm	
Housings	24
Max. Ø Adjacent / Not Adjacent Tool	75 / 125 mm
Max. Length of Tool	300 mm
Weight of Tool	7 kg



ELECTRO SPINDLE

Tool taper	SK 40	
Rotating Speed	12000 rpm	
Power (S1)	23.6 kW	
Torque (S6-40% / S1)	110 Nm / 84 Nm	
Characteristic Speed (S6-40% / S1)	1750 / 2680 rpm	
<ul style="list-style-type: none"> Electro spindle is equipped with a special chiller which enables to maintain thermal stability of spindle. Perfect machining stability is achieved through the spindle design and the use of high -performance bearings. 		<p>50 rpm 1750 rpm 2680 rpm 12000 rpm</p> <p>23.6 kW 110 Nm / 84 Nm</p> <p> ◆ Power (S6 - 40%) ◆ Power (S1) ▲ Torque (S6 - 40%) ▲ Torque (S1) </p>

INTERFERENCE DIAGRAM





TECHNICAL SPECIFICATION

MU Tech 6

Table (Fixed)

Table Size	mm	1000 X 600
T-slot Dimensions	mm	7 X 14 X 80
Min. Distance From Floor To Table Top	mm	900
Max. Load on Table	kg	700

Capacity

X / Y / Z Axis Travel	mm	750 / 560 / 560
Distance from Pallet Top to Spindle Nose (Vertical)	mm	100
Distance From Pallet Top to Spindle Cen. (Horizontal)	mm	300
Max. Job Diameter and Height	mm	Ø 800 X 550

Feed & Acceleration

Rapid Traverse (X / Y / Z Axis)	m/min	30
Acceleration (X / Y / Z Axis)	m/sec ²	5
Cutting Feed	m/min	10

Electro Spindle

Spindle Speed	rpm	12000
Spindle Power (S1)	kW	23.6
Spindle Torque (S6-40% / S1)	Nm	110 / 84
Spindle Nose		SK 40

Rotating Head (B-Axis)

Spindle Axis / Saddle Plane	deg.	+30° / -120°
Rotating Speed	rpm	35
Acceleration	rad/s ²	40

Automatic Tool Changer

No. of Tools		24
Max. Tool Dia. (All / Adj. Empty)	mm	75 / 125
Tool Weight Max.	kg	7
Tool Length Max.	mm	300

Accuracy (as per VDI/DGQ 3441)

Positioning Accuracy	mm	0.010
Repeatability	mm	0.005

Other

Weight (Approx)	kg	9300
Dimensions (Approx) :		
Length	mm	4950
Width	mm	2950
Height	mm	2600

STANDARD FEATURES

- Controller : Siemens 840D SL
- Electro Spindle with Chiller Unit
- Fixed Table With Integrated Rotating Table
- Work Light
- Auto & Manual Coolant System
- Centralized & Programmable Lubrication
- Laser Calibrated Axis for High Precise Positioning Accuracy
- Electricals with Quality Devices & Panel A.C.

POSSIBLE OPTIONS

- Linear Glass Scale
- Spindle Taper - BT 40
- Spindle Taper - HSK 63A
- Tool Changer - 40 Tools
- Auxiliary Rotary Table
- Coolant Through Spindle
- Visiport Window
- Oil Skimmer
- Tool and Job Probe
- Tool Life Management
- Fully Toolled up Solutions to Meet the Customer Needs

Note : • All above information is subject to change arising out of continuous product improvement.

• The description 'standard accessories / feature' conforms to its list; not the photo of machine shown in the catalogue.

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ISO 9001 : 2008