

# Ultrasonic-Green

## Drilling & Milling Center

# UGT-500



## Technical Data

Controller	Standard	Optional
CNC Controller	Mitsubishi M80A	SIEMENS/FANUC

Spindle		
Diameter	mm	Φ100
Max. Speed (Short-Duration)	rpm	24,000
Max. Speed (Long-Duration)	rpm	19,200
Motor Power (Rated / Short-Duration)	kW	2.2/3.7
Motor Torque (Rated / Short-Duration)	Nm	7/17.7
Spindle Taper	-	BT30
Ultrasonic	-	Standard
Spindle-Through MQL	-	Optional
Ultrasonic + Spindle-Through MQL	-	Optional
Supercritical CO <sub>2</sub> Spindle	-	Optional (Add-On)

Tool Magazine		
Tool Holding Capacity	No. of Tools	21
Max. Tool Diameter (Full / Partial)	mm	60/80
Max. Tool Length	mm	200
Max. Tool Weight	kg	3
Type	-	Arm Type

Miscellaneous		
Power Supply Voltage	-	Three-Phase AC, 380V/50Hz
Power Capacity	kVA	15
Air Pressure	MPa	0.5-0.7
Total Air Consumption	L/min	>100
Total Weight (incl. Accessories)	kg	3,200
Machine Size (L x W x H)	mm	1,600×2,430×2,400

Travel		
X/Y/Z-Axis Travel	mm	500×400×320
Spindle Nose to Table	mm	180-500
Spindle Center to Z-Axis Cover	mm	420

Worktable		
Dimensions	mm	620×400
Max. Load	kg	250
T-Slot (No. x Width x Distance)	pcs×mm×mm	3×14×125

Feed Rate		
X/Y/Z-Axis Rapid Speed	m/min.	48/48/36
X/Y/Z-Axis Motor Power	kW	1.5/1.5/3.0

Accuracy		
X/Y/Z-Axis Positioning Accuracy	mm	0.006
X/Y/Z-Axis Repeatability	mm	0.004
Accuracy Grade	-	P

## Standard Configurations

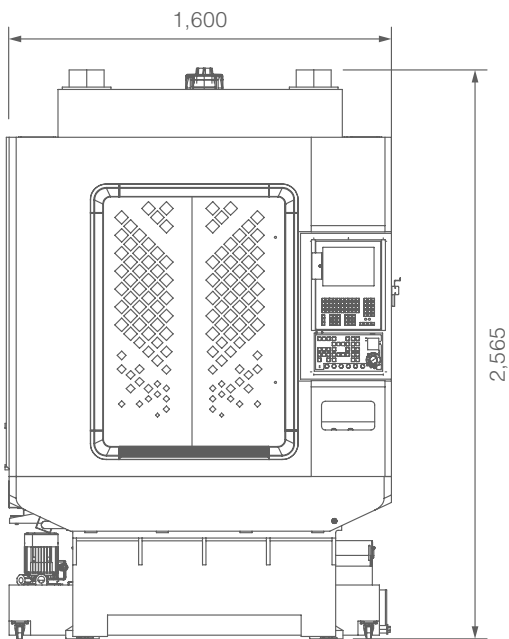
Automatic Centralized Lubrication System	Blow Gun
Chip-Flushing System	Electrical Cabinet Heat Exchanger
Coolant System	LED Work Light
Ethernet Port	Three-Color Alarm Light
Handwheel	Door Safety Interlock

## Optional Configuration

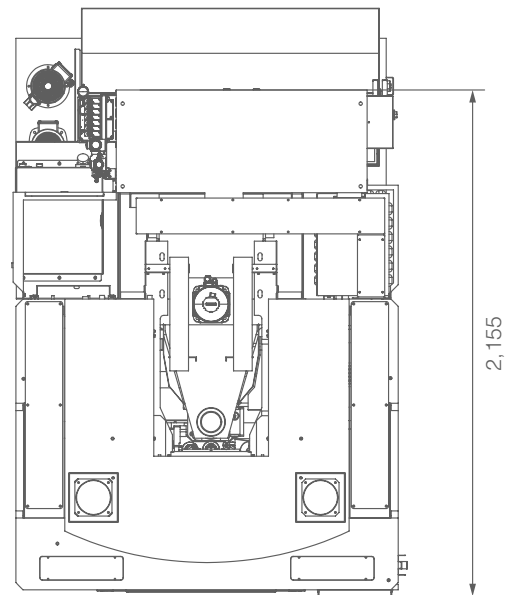
High Precision 3D Probe	Contact Tool Setter
Automatic Door	Add-On Tool Magazine (ATM-14)
Disc-Type Oil-Water Separator	Spindle Chiller
4/5th Axis Rotary Table	Tool Magazine Flushing System
Oil-Mist Collector	Non-Ultrasonic

## Floor Plans (Unit: mm)

### Front View



### Top View



The information given is not binding. The actual product and mutual agreement shall prevail.

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