

Ultrasonic Precision

Engraving & Milling Center

UJM-500B



Technical Data

Controller

| | Standard | Optional |
|----------------|----------|------------------|
| CNC Controller | HNC-918D | SIEMENS 828D-280 |

Spindle

| Diameter | mm | Φ120 |
|---------------------------------------|-----|----------|
| Max. Speed (Short-Duration) | rpm | 30000 |
| Max. Speed (Long-Duration) | rpm | 24000 |
| Motor Power (Rated) | kW | 7.5 |
| Motor Torque (Rate) | Nm | 3.4 |
| Spindle Taper | - | HSK-E40 |
| Ultrasonic | - | Optional |
| Minimum Quantity Lubrication (MQL) | - | / |
| Ultrasonic + MQL | - | / |
| Supercritical CO ₂ Spindle | - | / |

Tool Magazine

| | No. of Tools | |
|---------------------------|--------------|--------------------|
| Tool Holding Capacity | | Non-Ultrasonic: 12 |
| | | Ultrasonic: 12 |
| Max. Tool Diameter (Full) | mm | 90 |
| Max. Tool Length | mm | 90 |
| Max. Tool Weight | kg | 3 |
| Type | - | Umbrella Type |

Miscellaneous

| Power Supply Voltage | - | Three-Phase AC, 380V/50Hz |
|----------------------------------|-------|---------------------------|
| Power Capacity | kVA | 12 |
| Air Pressure | MPa | 0.5-0.7 |
| Total Air Consumption | L/min | >100 |
| Total Weight (incl. Accessories) | kg | 3500 |
| Machine Size (L x W x H) | mm | 1650 x 1880 x 2405 |

Travel

| X/Y/Z-Axis Travel | mm | 500×400×300 |
|-----------------------|----|-------------|
| Spindle Nose to Table | mm | 175-475 |

Worktable

| Dimensions | mm | 500X400 |
|-----------------------------|-----------|----------|
| Max. Load | kg | 200 |
| T-Slot (No.xWidthxDistance) | pcs×mm×mm | 4×12×100 |

Feed Rate

| X/Y/Z-Axis Rapid Speed | m/min. | 15/15/15 |
|------------------------|--------|----------------|
| X/Y/Z-Max. Feed Rate | m/min. | 10/10/10 |
| X/Y/Z-Axis Motor Power | kW | 0.75/0.75/0.75 |

Accuracy

| X/Y/Z-Axis Positioning Accuracy | mm | 0.005 |
|---------------------------------|----|-------|
| X/Y/Z-Axis Repeatability | mm | 0.003 |
| Accuracy Grade | - | UP |

Standard Configurations

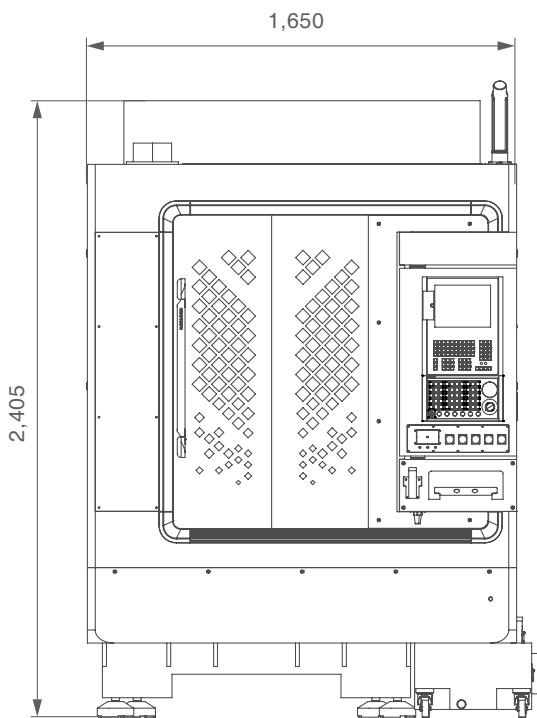
| | |
|--|-----------------------------------|
| Coolant System | Electrical Cabinet Heat Exchanger |
| Automatic Centralized Lubrication System | LED Work Light |
| Spindle Chiller | Three-Color Alarm Light |
| Handwheel | Door Safety Interlock |
| Blow Gun | |

Optional Configurations

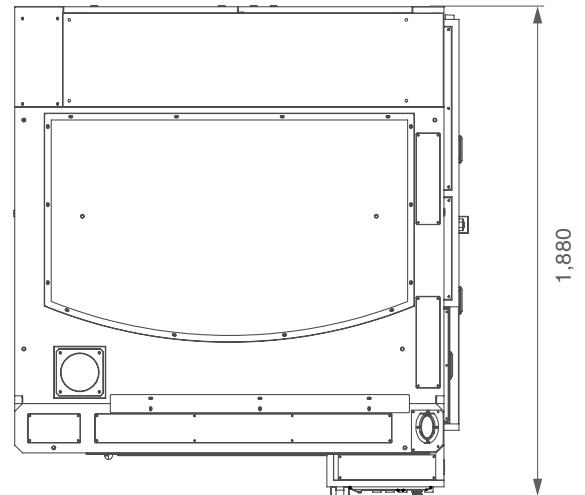
| | |
|-------------------------|---|
| High Precision 3D Probe | Ultrasonic Amplitude Measuring Device |
| Oil-Mist Collector | 5-Axis Simultaneous Machining System (with RTCP Function) |
| 4/5th Axis Rotary Table | Non-Ultrasonic Extended Tool Magazine ETM-12 (B) |
| Automatic Door | Ultrasonic Extended Tool Magazine ETM-12(B) |
| Contact Tool Setter | |

Floor Plans (Unit: mm)

Front View



Top View



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

Contact: Esther HU +86-138 2607 9999

E-mail: esther.hu@conprofotech.com

Address: No.6 2nd Nanyun Road, Science City, Hi-tech Development Zone, Guangzhou, 510663, P.R.C

ULM-500B 20231124 VE1.8