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ISO 9001 ISO 14000 2013 TAMI Supreme Excellence Award

UQ4000

Vertical Machining Center

For precise and high speed
4+1 axes machining



WELE MECHATRONIC CO., LTD
A JTEKT strategic alliance company

Vertical Machining Center (4+1 axes)

Specification	Unit	UQ400
Table		
Table diameter	mm(in)	ø 320(ø12.60)
Max. workpiece size (DxH)	mm(in)	ø 400 x 300(ø15.75 x 11.81)
Table loading capacity	kg(lb)	200(440)
T-slot size (size x degree)		12 x 90(0.47 x 90)
Travel		
X/Y/Z axis travel	mm(in)	400 / 650 / 485(15.75 / 25.59 / 19.09)
Distance from spindle nose to table top	mm(in)	0~485(0~19.09)
A axis travel (rotate along with X axis)	degree	+30 / -120
C axis travel (rotate along with Z axis)	degree	360
Spindle		
Spindle speed		Direct drive 12,000rpm
Spindle taper		BT40
Spindle motor (cont./ 30min)	kW(HP)	11/15(15/20)
Spindle Max. torque (cont./30min)	Nm	70 / 95
Feedrate		
Linear guideway on X/Y/Z axis	mm	Ball way(35 / 45 / 45)
Rapid traverse rate on X/Y/Z axis	mm(in)/min	36,000 / 24,000 / 10,000 (1,417 / 944 / 393)
Rapid traverse rate on A/C axis	rpm	20 / 27
Cutting feedrate	mm(in)/min	10,000(393)
Tool magazine		
Tool magazine	pocket	24
Max. tool diameter/ adjacent pocket empty	mm(in)	ø 80 / ø125(ø3.15 / ø4.92)
Max. tool length	mm(in)	300(11.81)
Max. tool weight	kg(lb)	8(17.6)
Space requirement & weight		
Machine length x width	mm(in)	2,950 x 2,350(116.14 x 92.52)
Machine height	mm(in)	3,140(123.62)
Machine weight	kg(lb)	6,500(14,300)
Controller		
Controller		FANUC 0iMF
Miscellaneous		
Pneumatic requirement	kg/cm ²	6
Power requirement	kVA	40
Coolant tank capacity	liter	400

** Specifications subject to change without notice.

Standard Accessories

- Spindle oil chiller
- Centralized automatic lubricating system
- Air blow nozzle
- Air curtain on spindle
- Y axis twin chip augers
- X axis chip auger
- Chip wash down for table
- Roof enclosure guarding system
- Ball screw pre-load
- Rigid tapping
- Spray gun for chip wash down
- Air gun
- Auto power off
- RS232 interface
- Heat exchanger for electric cabinet
- Work light
- Operation cycle finish and alarm lights
- Hydraulic clamping mechanism for A/C axes
- Toolbox and foundation bolt kit
- Machine manual
- Maintenance manual

Optional Accessories

- Roller linear guideway
- 15,000 rpm direct-driven spindle (BT40)
- 15,000 rpm built-in spindle (BT40)
- 20,000 rpm built-in spindle (HSK-A63)
- Linear scale feedback system for X/Y/Z axis
- A/C axes Rotary encoder
- Oil skimmer
- 32T/40T chain type tool magazine
- Bed chip wash down
- Scraper type chip conveyor
- Caterpillar type chip conveyor
- Coolant through spindle (Form A)
- Oil mist collector
- Auto tool length measurement (Blum or Renishaw)
- Auto workpiece measuring system (Blum or Renishaw)
- Air-conditioning for electric cabinet
- Transformer
- Hydraulic interface for fixture on table
- Mitsubishi M830 controller



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