

Technical information

Specification\ Model	Unit	UG630
Travel		
X axial travel(Head movement)	mm (in)	640 (25.1)
Y axial travel (Carriage movement)	mm (in)	520 (20.4)
Z axial travel (Head stock movement)	mm (in)	460 (18.1)
Distance between table and vertical spindle nose	mm (in)	150-610 (5.9 – 24.0)
Table unit		
Clamping area	mm (in)	Ø650 (25.5)
Table load (90° / 0°)	kg (lbs)	200 / 300 (440 / 660)
Swiveling range of the B-axis	degree	-50 / +110
Rotating range of the C-axis	degree	360
Max. torque of the B-axis (Max. / Brake)	Nm (ft-lb)	5,760 / 4,490 (4,250 / 3,310)
Max. torque of the C-axis (Max. / Brake)	Nm (ft-lb)	960 / 2,570 (708/1,895)
Spindle unit		
Spindle type / speed	rpm	#40, Built-in, 0-15,000
Spindle power (cont./30 min.)	kW (HP)	25/29 (33/38)
Max. torque (cont./30 min.)	Nm (ft-lb)	83/99 (61/73)
Feed unit		
Rapid feed rate of X/Y/Z axes	mm/min (in/min)	40,000 (914)
Rapid feed rate of B/C axes	rpm	25
Cutting feed rate of each axis	mm/min (in/min)	1-20,000 (0.04-508)
Tool magazine		
Magazine capacity	pcs	32 (40, 48, 60 option)
Max. tool diameter/adjacent pocket empty	mm (in)	75 / 127 (2.95 / 5.0)
Tool change time (Tool to Tool)	sec.	1.5
Max. tool length	mm (in)	300 (11.8)
Max. tool weight	kg (lbs)	7 (15.4)
Machine accuracy		
Positioning accuracy in X/Y/Z	mm (in)	P = 0.02
Indexing positioning at B/C	arc sec.	20
Indexing repeatability at B/C	arc sec.	20
Repeatability in all axes	mm (in)	Ps = 0.015
Other requirement		
Coolant tank & Pump		420 liter, 0.5HP
Air resource	kg/cm ²	6
Power requirement (220V, 60Hz)	kVA	55
Space requirement		
Machine length*width*height (Approx.)	mm (in)	4,840*4,540*2,875 (190.5*178.7*113.1)
Machine weight (Approx.)	kg (lbs)	8,500 (18,700)

**Product specifications and accessories are subject to change without notice.

Accessories

● : Standard ○ : Option

Item	UG630
15,000 rpm built-in spindle	●
Three-axes auto lubrication system	●
Spindle air seal	●
Spindle temperature control system	●
Spindle thermal compensation system	○
FAGOR Linear scale feedback system on X, Y, Z axes	○
FAGOR rotary encoders on B & C axis	○
B/C axes hydraulic clamping system	●
32 Arm-Type ATC	●
40, 48, 60 Arm-Type ATC	○
Machining air blast system	●
Remote handle wheel	●
Rigid tapping	●
Roof enclosure splash guard	●
Air-conditioned electronic cabinet	●
Caterpillar type chip conveyor	●
Scraper type chip conveyor	○
Coolant system & tank	●
Coolant through the spindle (Form A)	○
Oil skimmer	○
Air gun & Spray gun	●
Operation, Program & maintenance manual	●
Automatic power off system	●
Work lights	●
Finish & alarm lights	●
Ethernet card	○
CE version	○
RS-232 interface	●
Auto tool length measurement (Blum NT-A2)	○
Auto workpiece measuring system (Blum TC-50)	○
SIEMENS 840D controller	●
HEIDENHAIN TNC640	○
FANUC 31iM-B5 plus	○



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We lead the way by a new business model



5 axes machining Center

UG630



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