

SPECIFICATIONS

		U600	U800
TRAVEL	X-Axis	25.98 in / 660 mm	31.49 in / 799 mm
	Y-Axis	40.16 in / 1,020 mm	45.28 in / 1,150 mm
	Z-Axis	19.69 in / 500 mm	29.52 in / 749 mm
	Distance from Spindle Nose to Table	6.30 ~ 25.98 in / 160 ~ 660 mm	4.92 ~ 34.45 in / 125 ~ 875 mm
TABLE	Dimensions	23.62 in diameter / 600 mm diameter	31.49 in diameter / 800 mm diameter
	Max. Load	1,102 lbs / 500 kg	2,205 lbs / 1,000 kg
	T-slot (number x width x pitch)	.55 x 3.94 x .20 in / 14 x 100 x 5 mm	.55 x 3.94 x .28 in / 14 x 100 x 7 mm
SPINDLE	Type	Inline	Motorized
	Spindle Speed	15,000 rpm	20,000 rpm
	Spindle Torque Peak	65.9 ft lb / 89.4 Nm	99.5 ft lb / 135 Nm
	Motor Power (cont./30 min)	13.41/18.77 HP / 10/14 kW	33.53/53.64 HP / 25/40 kW
	Coolant Thru Spindle	30 bar / 435 psi	30 bar / 435 psi
	Spindle Taper	Big Plus® CAT 40	HSK-63A
FEED RATE	Rapid Traverse (X/Y/Z)	1,417 x 1,417 x 1,417 ipm / 36 x 36 x 36 m/min	1,890 x 1,890 x 1,890 ipm / 48 x 48 x 48 m/min
	Cutting Feed Rate	787 ipm / 20 m/min	945 ipm / 24 m/min
ATC & MAGAZINE	ATC Type	Swing Arm	Carousel
	Magazine Capacity	40 tools	32 tools
	Maximum Tool Diameter (next pocket empty)	2.95/5.91 in / 75/150 mm	3.54/4.92 in / 90/125 mm
	Maximum Tool Length	11.81 in / 300 mm	11.81 in / 300 mm
	Maximum Tool Weight	17.64 lbs / 8 kg	15.43 lbs / 7 kg
	Tool Shank	CAT 40 (BT 40 Optional)	HSK-63A
SPACE & SYSTEM REQUIREMENTS	Pneumatic Pressure	85.34 psi / 6 kgf/cm ²	85.34 psi / 6 kgf/cm ²
	Electrical Power Consumption	60 KVA	80 KVA
	Machine Net Weight	30,864.72 lbs / 14,000 kg	39,683.21 lbs / 18,000 kg
	Operating Dimensions (W x L x H)	128.15 x 151.77 x 138.58 in / 3,255 x 3,855 x 3,520 mm	165.35 x 120.28 x 162.20 in / 4,200 x 3,055 x 4,120 mm

Information may change without notice. Optimum machine performance is reliant upon installation conditions at the facility, such as power supply, air supply, and ambient air conditions.

HEIDENHAIN TNC 640 CONTROL

STANDARD

- › 5 Axis Simultaneous Machining
- › 3D Tool Radius-Compensated Contour Precision
- › Cylindrical Surface Machining
- › Coordinate Transformation
- › Tilted Workplane Function
- › Adjustable Deviation Tolerance (CYCLE 32)
- › Heidenhain Klartext Plain Language Programming
- › ISO G-Code Compatible
- › 3D Program Verification Graphics in Test and Run Modes
- › Dynamic Collision Monitoring with Graphics
- › Program Test Mode with Run-Time Calculation
- › Touch Probe Cycles
- › Blum Laser Tool Probe Cycles
- › Radio Interface for Probes
- › Kenematics Opt for Easy Calibration of Rotary Axes
- › Safe Tool Retraction in the Tool Axis Direction in Manual
- › CAD viewer
- › FK Free Contour Programming
- › Comprehensive Fixed Cycles for Milling, Drilling and Boring
- › NC Program Memory > 21 GB
- › Block Processing Time 0.5 ms
- › 15" Full Color Flat Screen Display
- › Remote Handwheel
- › Multiple USB ports with 2.0 and 3.0 Compatibility
- › Ethernet Connectivity
- › Pallet Editor

OPTIONAL

- › CAD Import
- › DXF Import
- › Remote Desktop Manager
- › Connected Machining
- › Fixture Wizard Software

