



NEX-108

Horizontal Turning Center Specifications



*All specifications are subject to change without prior notice
Verification of technical changes may be confirmed after receipt of order*

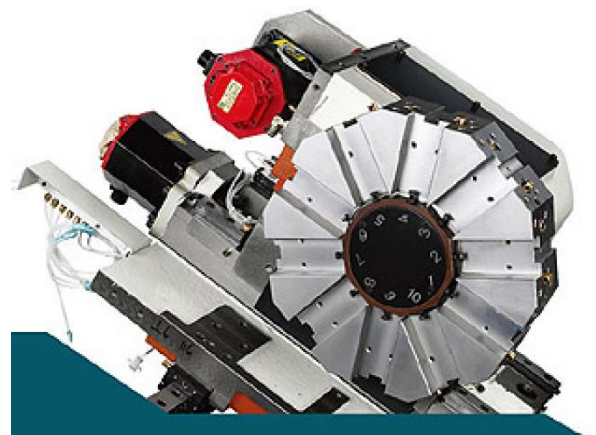


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The heavy duty one-piece slant bed machine base features an extremely rigid structure with a best in class Linear Roller Bearing Guideways, a design promoting the highest levels of machining accuracy to compliment high speed production machining.



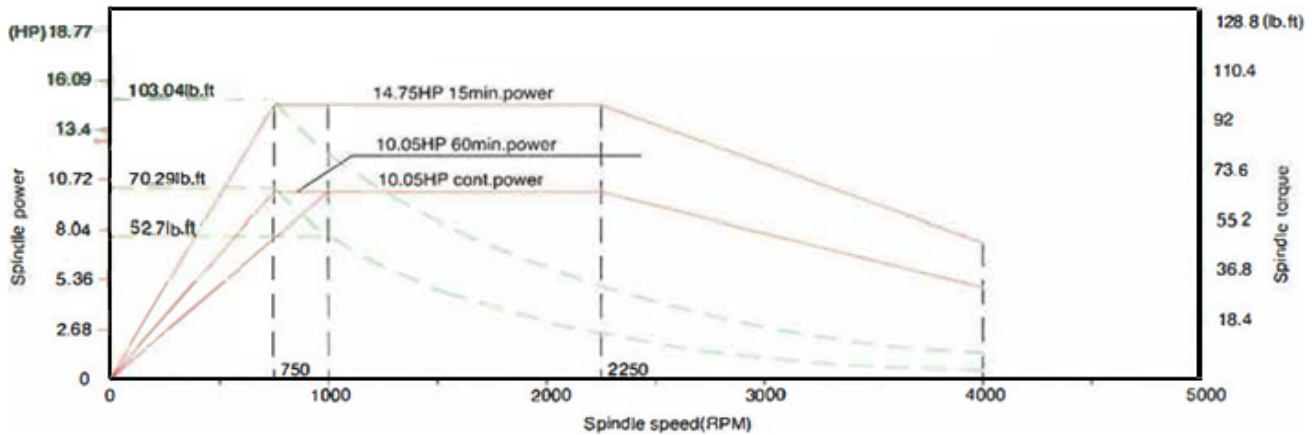
The turret is designed for extreme rigidity with its wide and heavy build, heavy duty oversized couplings and enhanced clamping pressure.



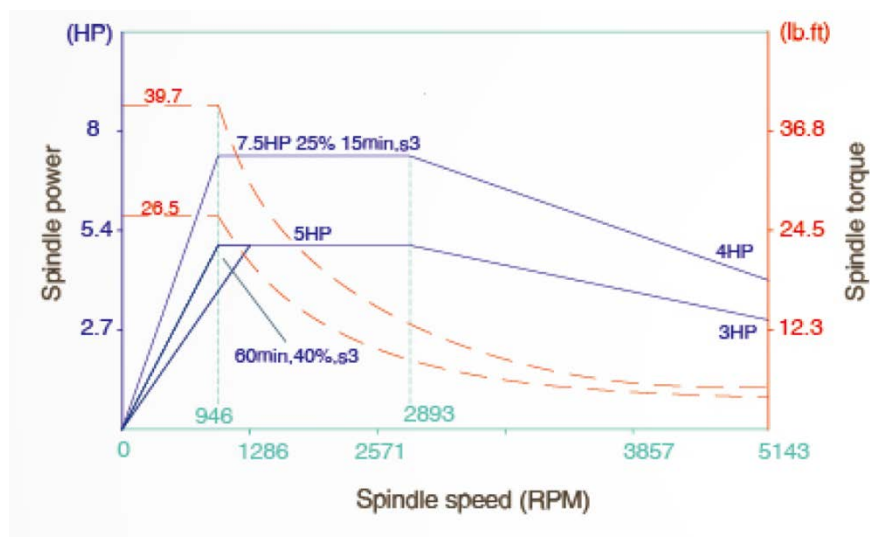


Spindle Output Diagram

Powered by FANUC MOTOR for high stability & high accuracy

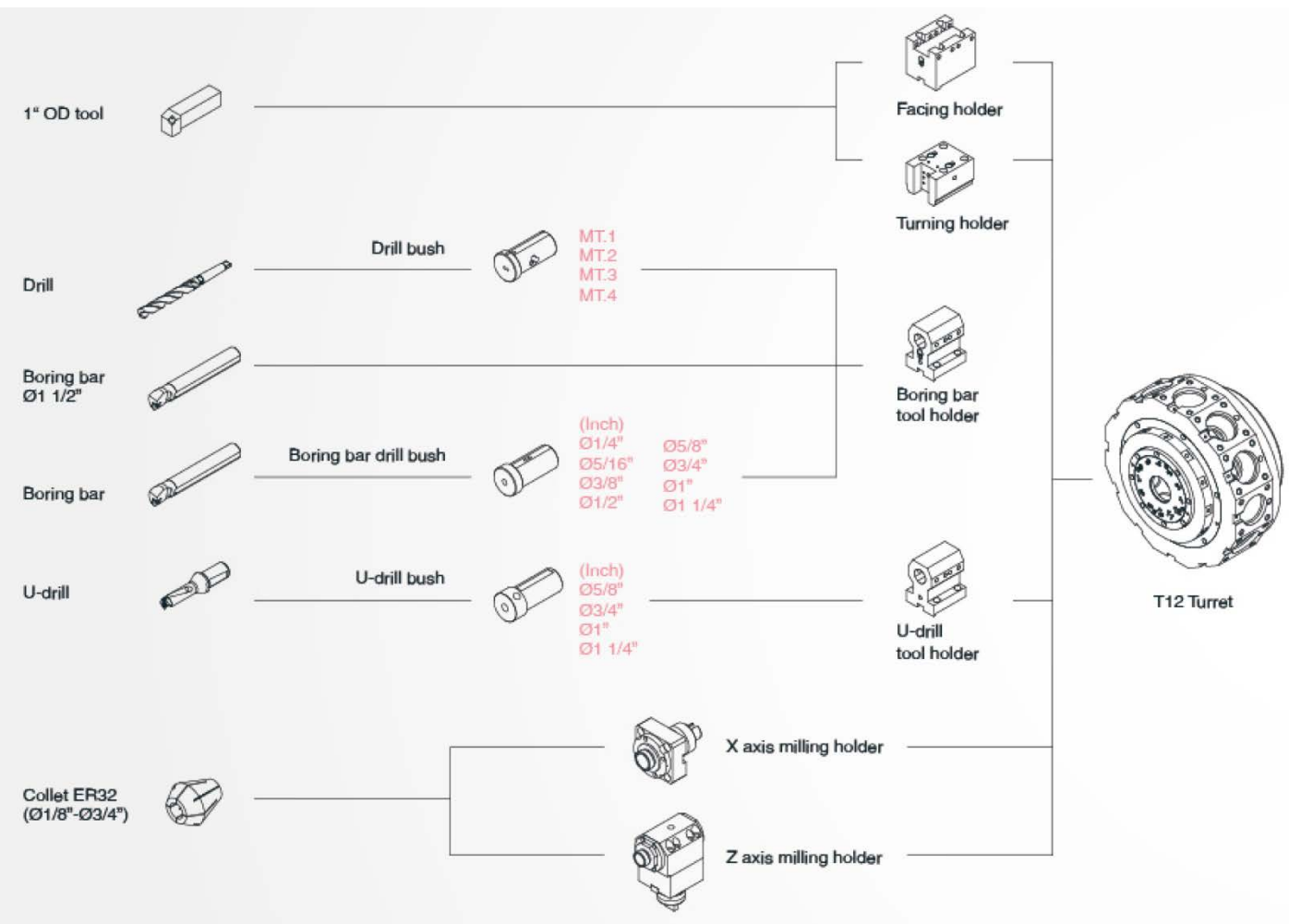
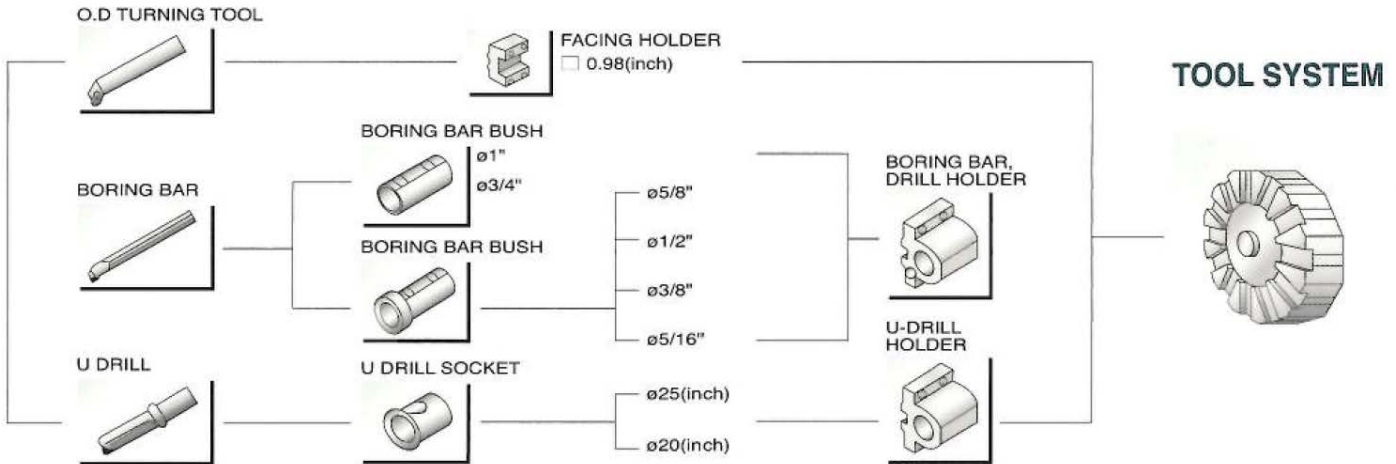


Milling Motor Output Diagram



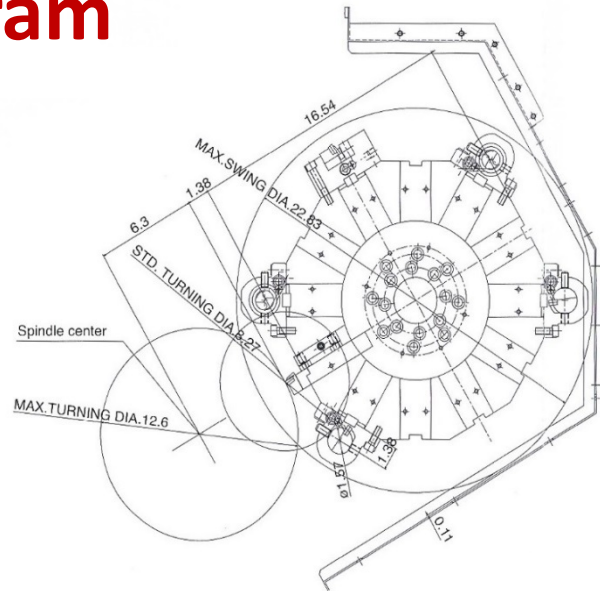


Tooling System

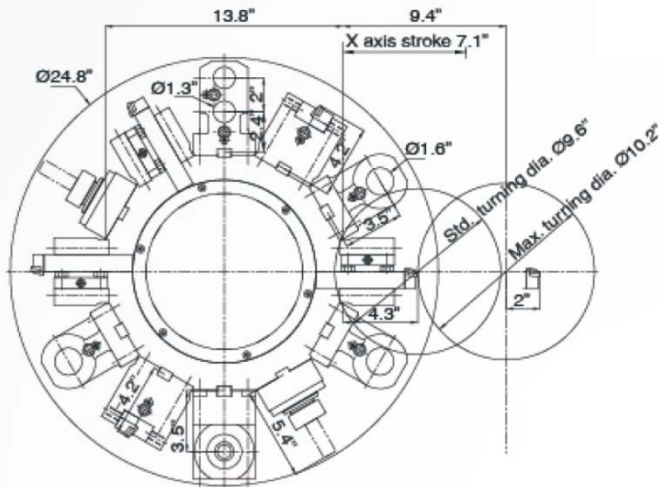


Interference Diagram

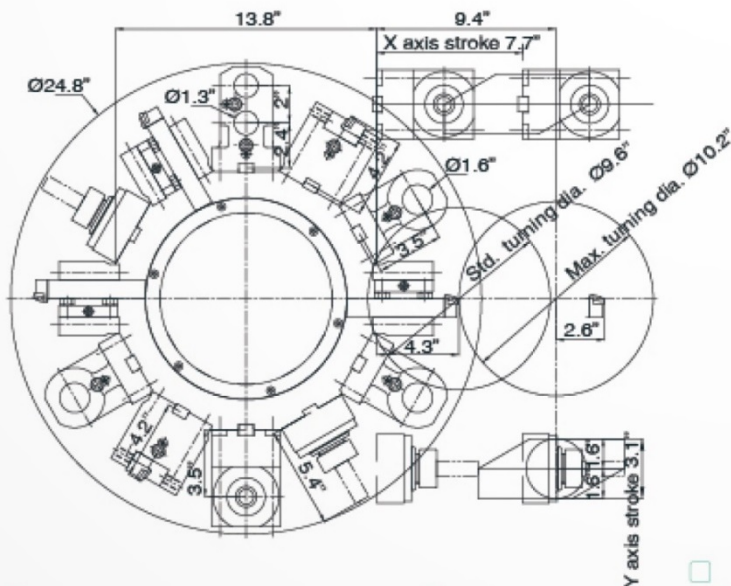
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NEX-108M



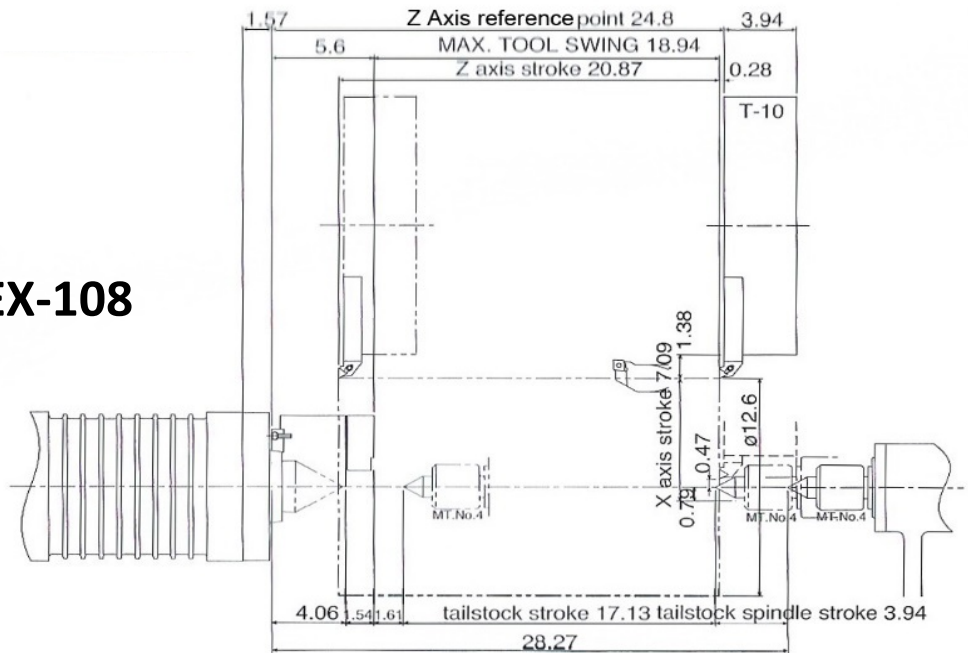
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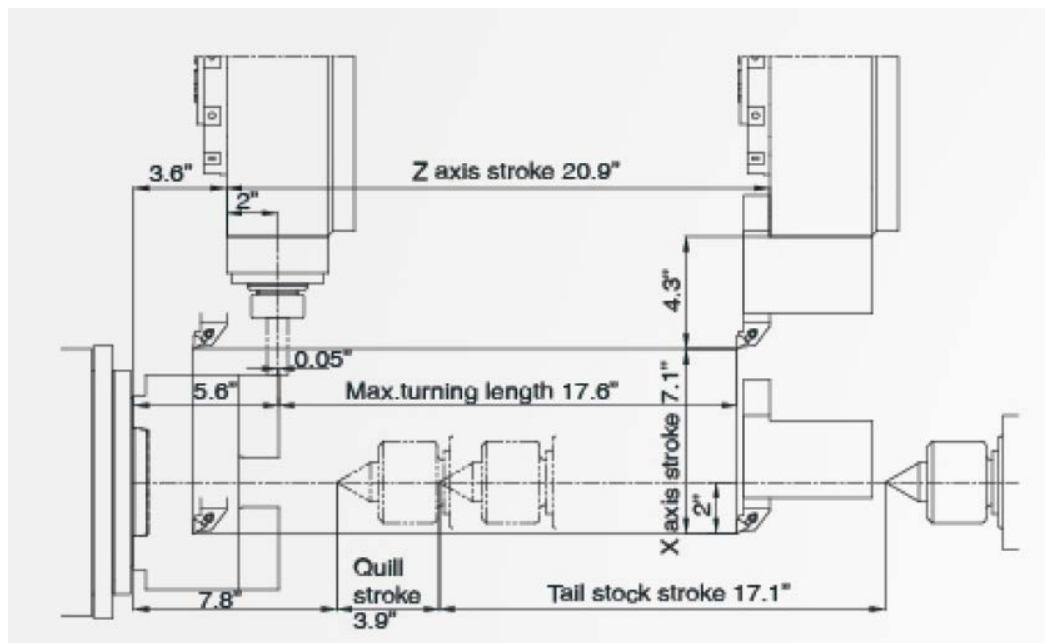
Working Range

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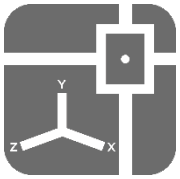


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NEX-108Y

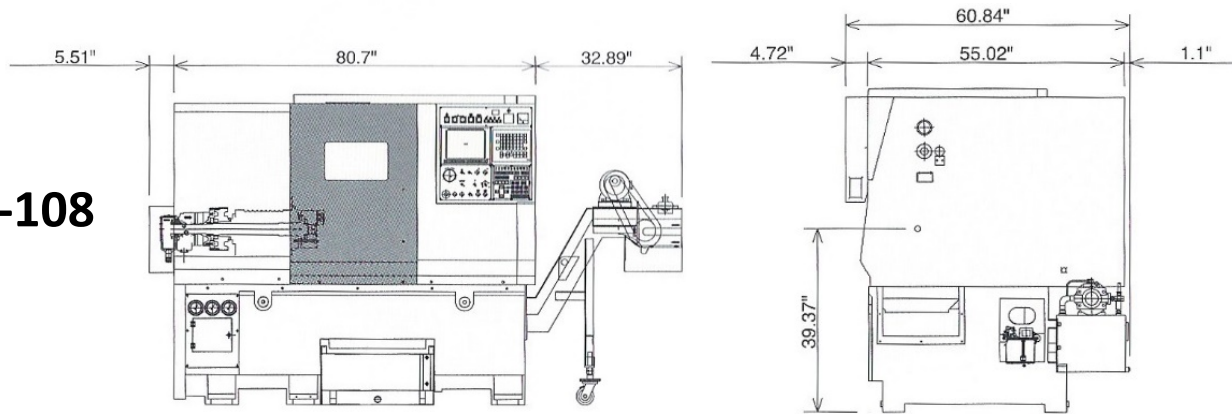


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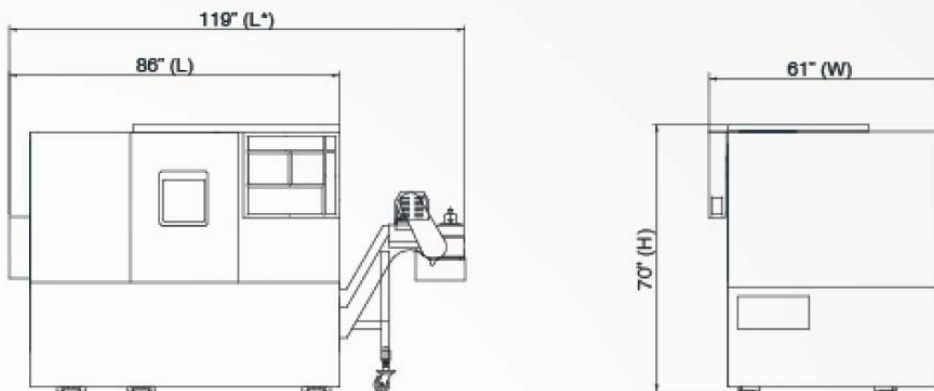


Machine Dimensions

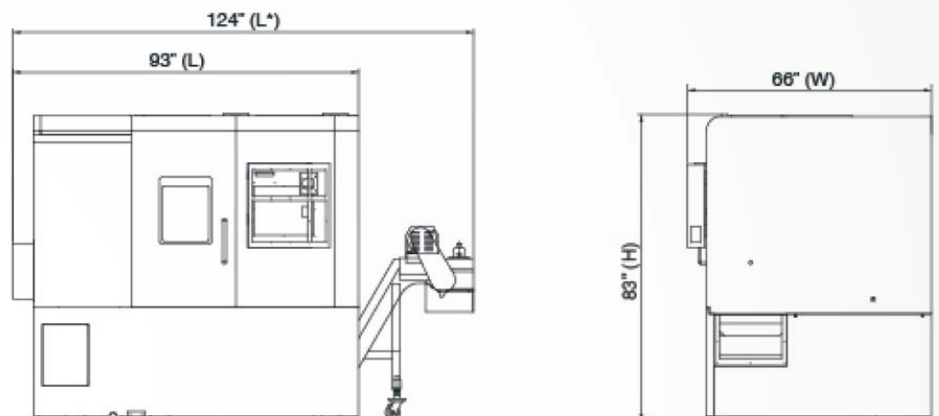
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NEX-108M



NEX-108Y



NEX-108

Machine Specifications		Unit	NEX-108	NEX-108M	NEX-108Y
Capacity					
Max Swing	mm (in)		400 (15.7)	480 (18.9)	480 (18.9)
Std Turning Dia	mm (in)		210 (8.19)	244 (9.5)	244 (9.5)
Max Turning Dia	mm (in)		320 (12.6)	260 (10.2)	260 (10.2)
Max Turning Length	mm (in)		481 (18.9)	446.8 (17.6)	444.5 (17.5)
Max Bar Work Capacity	mm (in)		52 (2)		
Travel					
X Axis Travel	mm (in)		180 (7.08)	180 (7.08)	195 (7.7)
Z Axis Travel	mm (in)		530 (20.8)		
Y Axis Travel	mm (in)		---	---	±40 (1.6)
Spindle					
Spindle Drive Type			Belt		
Spindle Speed	rpm		4000		
Chuck Size	in		8		
Spindle Nose			A2-6		
Through Hole Dia.	mm (in)		63 (2.48)		
Bearing Dia.	mm (in)		100 (3.9)		
Turret					
Number of Tool Stations			12		
Turning tool shank	mm (in)		25.4 (1)		
Boring Bar Shank Dia.	mm (in)		38.1 (1.5)		
Milling Speed	rpm			4000	4000
Milling Tool Shank Dia	mm (in)		---	19.05 (.75)	19.05 (.75)
Tailstock					
Tailstock Travel	mm (in)		435 (17.1)		
Tailstock Spindle Dia.	mm (in)		75 (3)		
Quill Taper			MT #4	MT #4	MT #5
Tailstock Spindle Travel	mm (in)		100 (4)		
Feedrate					
X Axis rapid traverse rate	m/min (ipm)		24 (945)	20 (787)	20 (787)
Z Axis rapid traverse rate	m/min (ipm)		24 (945)		
Y Axis rapid traverse rate	m/min (ipm)		---	---	10 (393)
Motor					
Spindle Drive Motor	kW (HP)		11/7.5 (15/10)		
Milling Motor	kW (HP)		---	5.5/3.7 (7.5/5)	5.5/3.7 (7.5/5)
Turret Index Motor	kW (HP)		1.2 (1.6)		
X Axis Drive Motor	kW (HP)		1.2 (1.6)	1.2 (1.6)	2.5 (3.4)
Z Axis Drive Motor	kW (HP)		2.5 (3.4)		
Y Axis Drive Motor	kW (HP)		---	---	2.5 (3.4)
Size					
Height	mm (in)		1753 (69)	1775 (70)	2107 (86)
Length	mm (in)		2190 (86)	2193 (86)	2372 (93)
Width	mm (in)		1660 (65)	1558 (61)	1672 (66)
Weight	kg (lb)		3800 (9480)	4300 (9480)	4500 (9920)

Control Specification: Fanuc Oi-T

CONTROL	SIMULTANEOUSLY CONTOURING CONTROLLED 2 AXIS
	LEAST INPUT INCREMENT: 0.001MM/0.0001 INCH
	LEAST COMMAND INCREMENT: 0.001MM/0.0001 INCH
FEED	FEEDRATE OVERRIDE: 0.254%
	DWELL: G04
	ORIGINAL POINT RETURN: G27, G28, G30
	MANUAL HANDLE FEED RATE: 0.001/0.01/0.1MM
	DRY RUN
	RAPID TRAVERSE OVERRIDE: F0, 25%, 50%, 100%
	FEED PER MINUTE/FEED PER REVOLUTION:G98, G99
TOOL FUNCTIONS	TOOL NUMBER DISPLAY
	TOOL NOSE RADIUS COMPENSATION
	TOOL OFFSET PAIRS: 64 PAIRS
	TOOL OFFSET
PROGRAMMING FUNCTIONS	ABSOLUTE/INCREMENTAL PROGRAMMING
	MULTIPLE REPETITIVE CYCLE: G70~G76
	CANNED CYCLES: G90, G92, G94
	DECIMAL POINT INPUT
	INCH/METRIC CONVERSION
	CHAMFERING/CORNER R
	CIRCULAR INTERPOLATION BY R PROGRAMMING
	SUB-PROGRAM CALL
	COORDINATE SYSTEM SETTING
	MANUAL GUIDE Oi
	WORK PIECE COORDINATE SYSTEM G52—G59
	CONSTANT SURFACE SPEED CONTROL
	AUXILIARY FUNCTION
	INPUT CODE: EIA/ISO AUTOMATIC RECOGNITION
	INPUT/OUTPUT INTERFACE: RS 232C
	PART PROGRAM STORAGE LENGTH: 320M
	NUMBER OF REGISTERABLE PROGRAMS: 400
	SEARCHING FUNCTION
	LABEL SKIP
	PARITY CHECK
	OPTIONAL BLOCK SKIP
OTHER	MDI/CRT UNIT: 8.4" LCD COLOR
	STORED STROKE CHECK
	BACKGROUND EDITING
	HELP FUNCTION
	LOAD METER
	SELF-DIAGNOSIS FUNCTION
	1st SPINDLE ORIENTATION
	LOAD INSPECTION FUNCTION
	SAFETY CLUTCH FOR CRASH PROTECTING

Standard Equipment

- Fanuc Oi-T Control
- 8" 3 Jaw thru-hole power chuck with one set of soft jaws
- 12 Station servo motor driven bi-directional indexing turret
- Programmable tailstock quill
- Hinged belt type lift-up chip conveyor, right side discharge
- Rigid tapping
- G54-G59 Workpiece coordinate system
- Safety door interlock and safety logic
- Bar feeder interface
- Halogen work light
- 3-Color operation status light
- Auto slide way lubrication system
- OD tool holder x 2 sets (1")
- End face tool holder x 2 sets (1")
- Boring bar tool holder x 4 sets (1.5")
- Live tool holder ER32 (BMT65) one set each axis X&Z **(M/Y Spec only)**
- One(1) set leveling pads
- One(1) set of adjusting tools and tool box
- Manuals: operation, control, parts List, electrical diagram