NEX-110

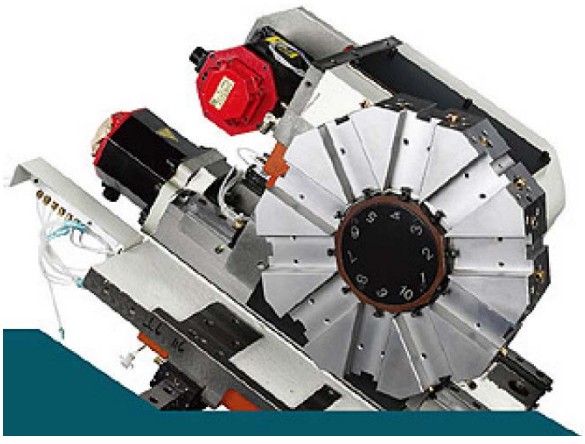
Horizontal Turning Center Specifications

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

NEX-110

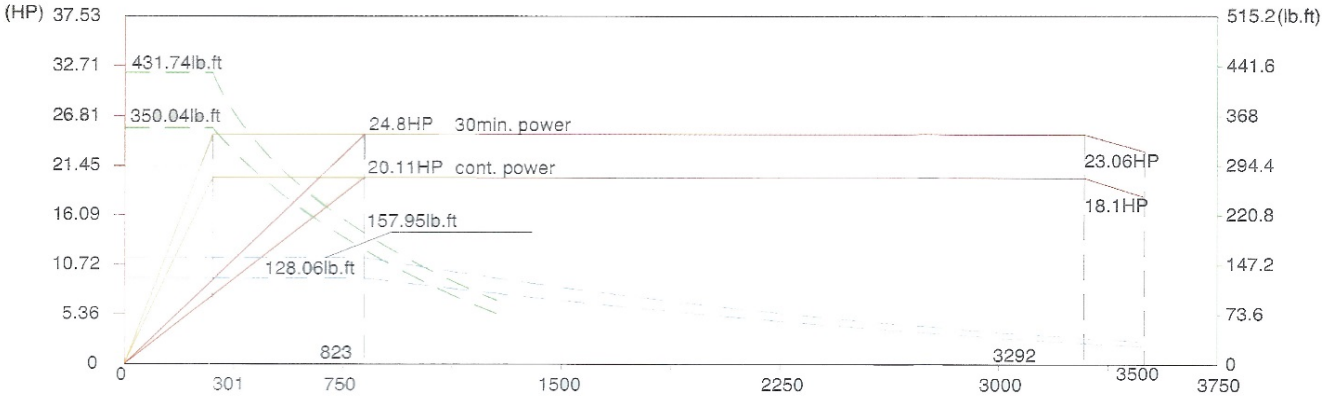
The heavy duty one-piece slant bed machine base features an extremely rigid structure with a best in class Linear Roller Bearing Guideways, a design promoting the highest levels of machining accuracy to compliment high speed production machining.]

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

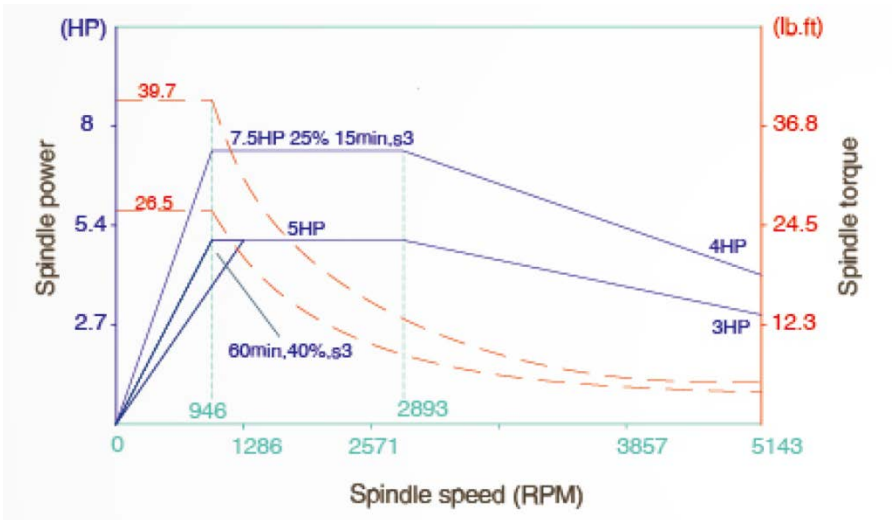


Spindle Output Diagram

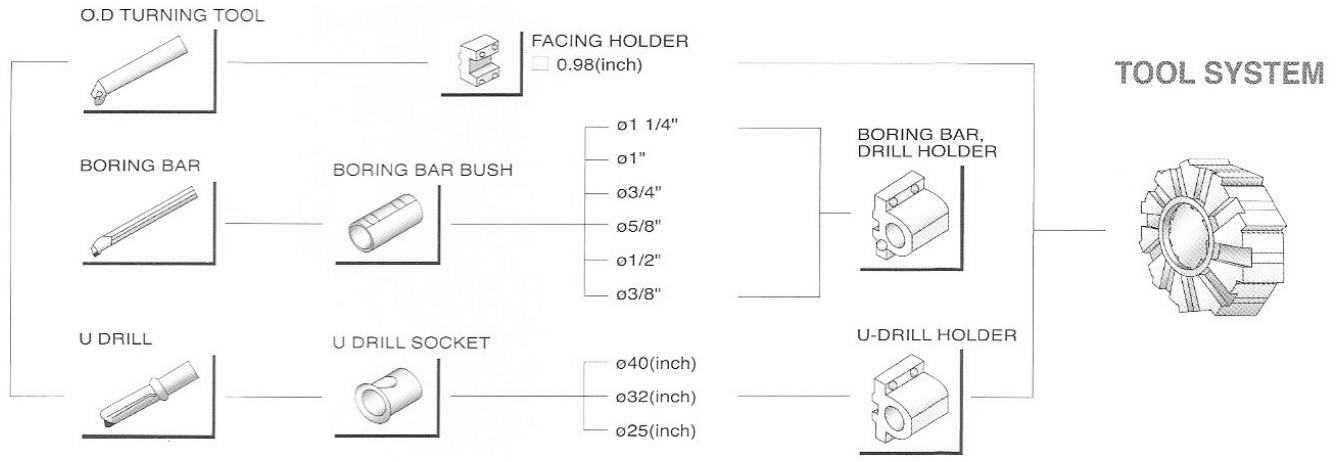
Powered by FANUC MOTOR for high stability & high accuracy

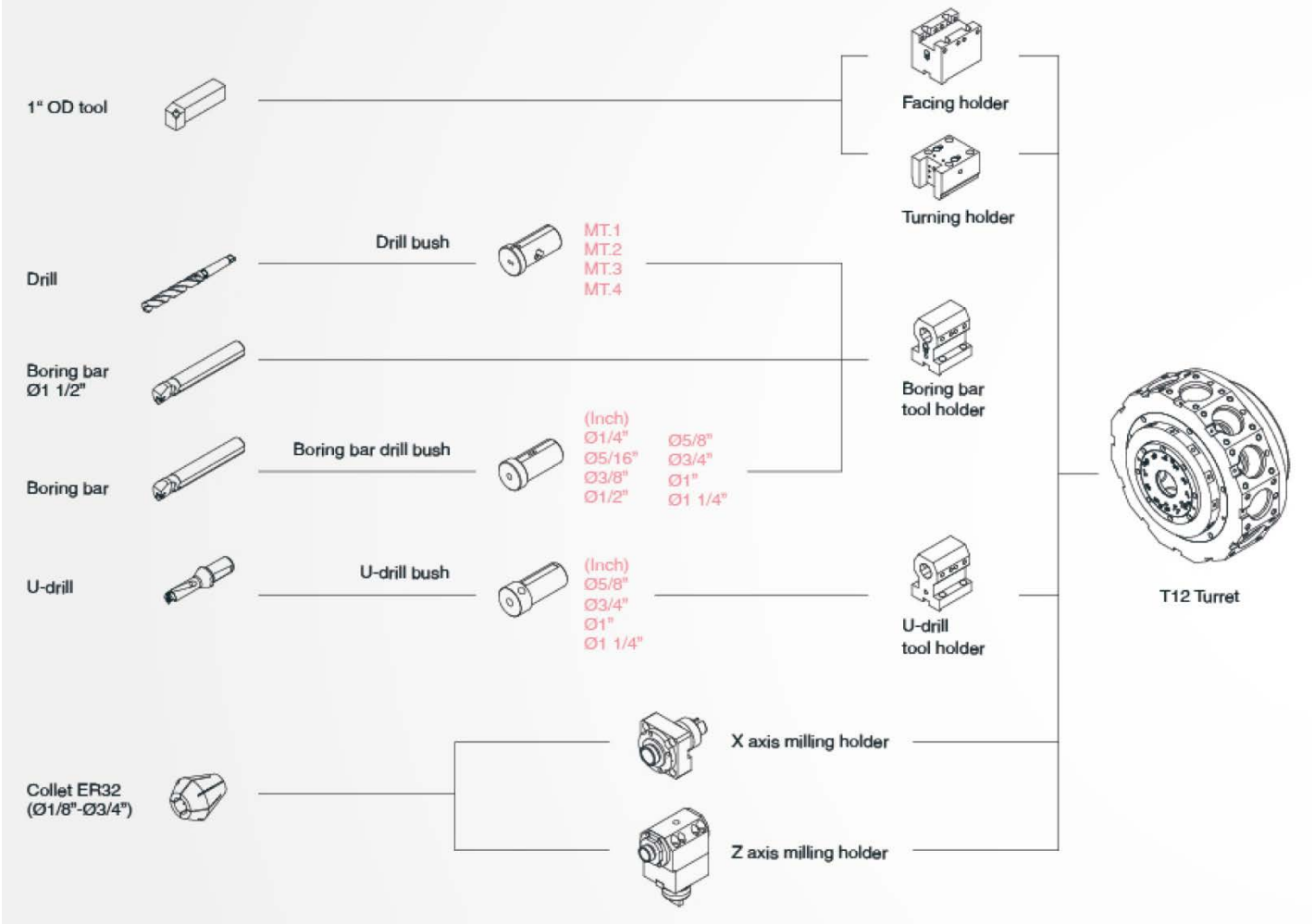


Milling Motor Output Diagram



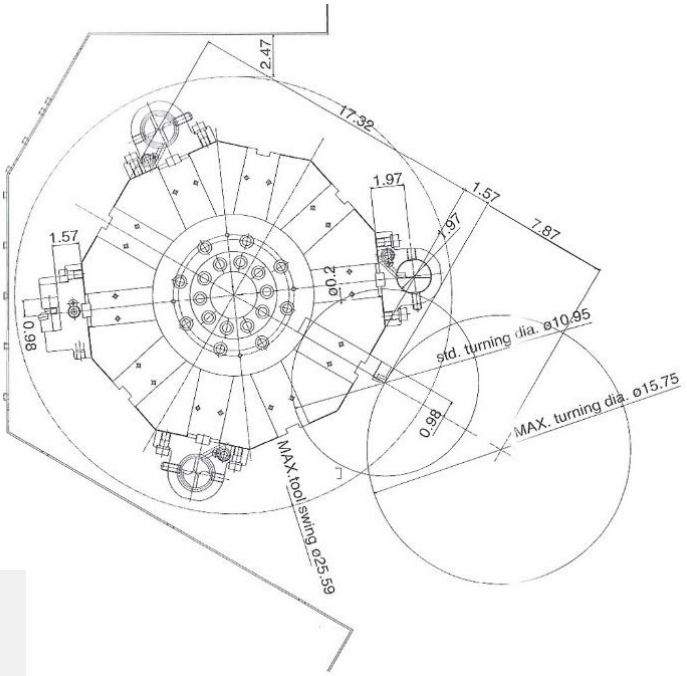
Tooling System

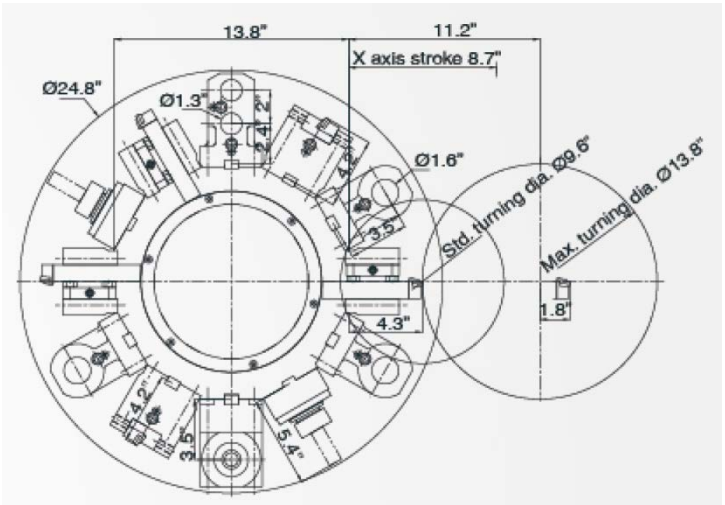




Interference Diagram

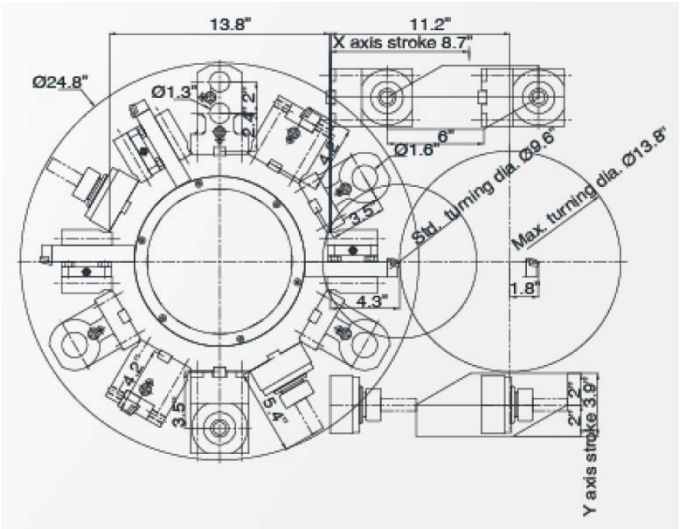
NEX-110



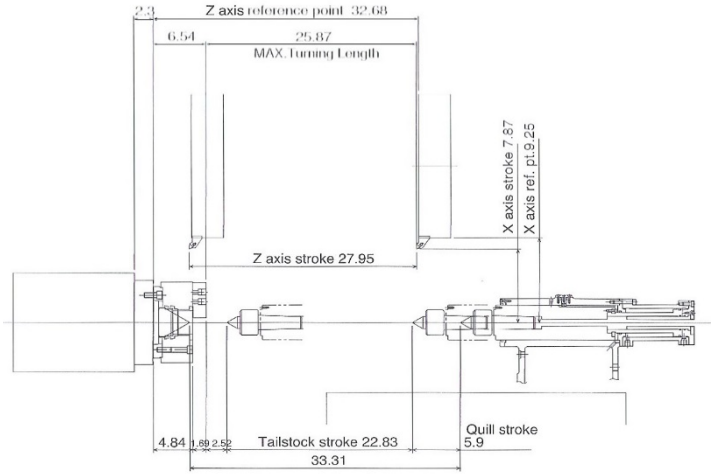


NEX-110M

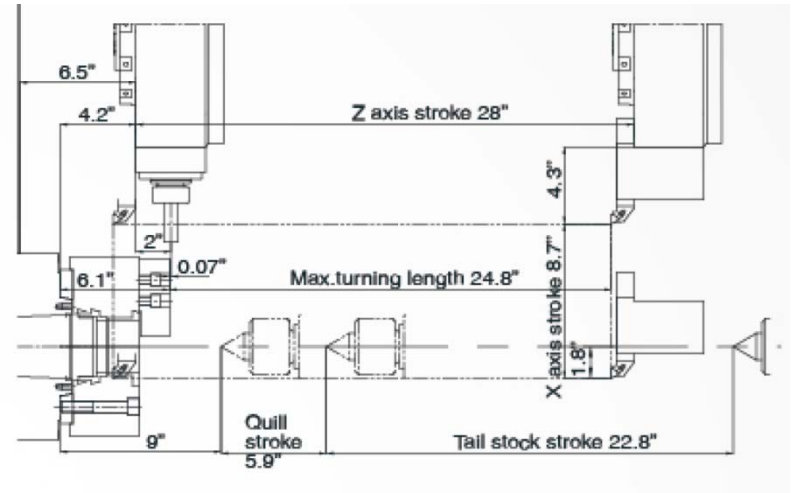
NEX-110Y



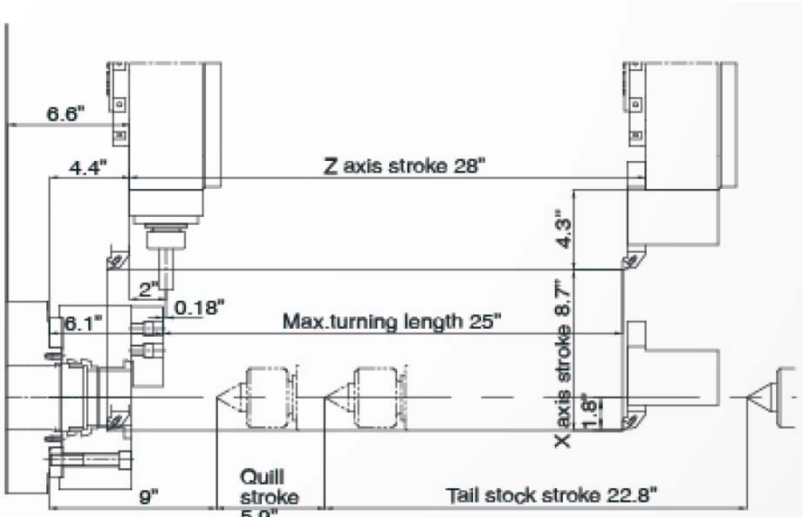
Working Range



NEX-110

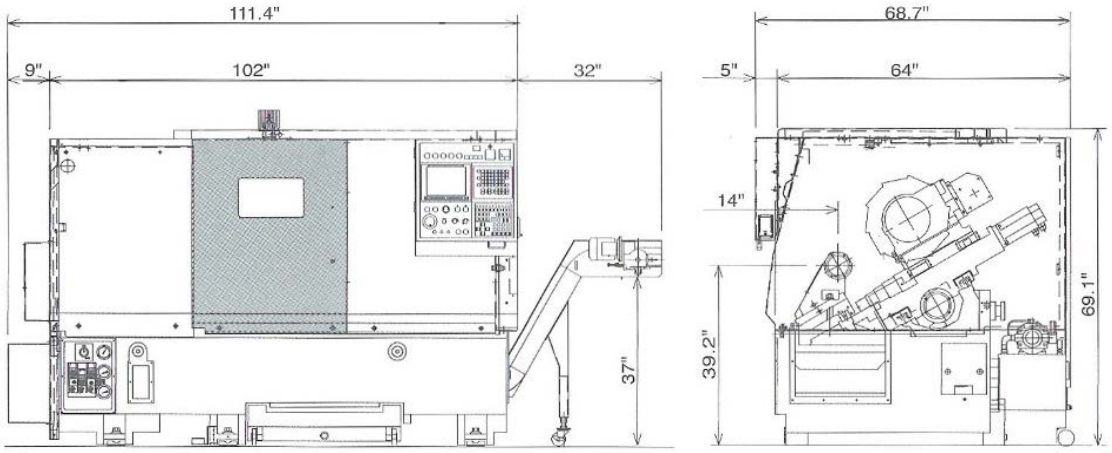


NEX-110M

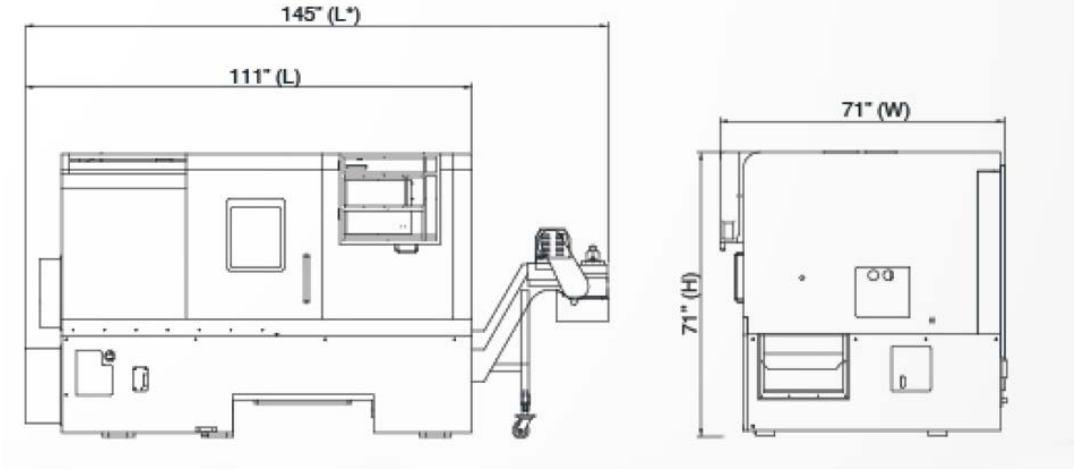


NEX-110Y

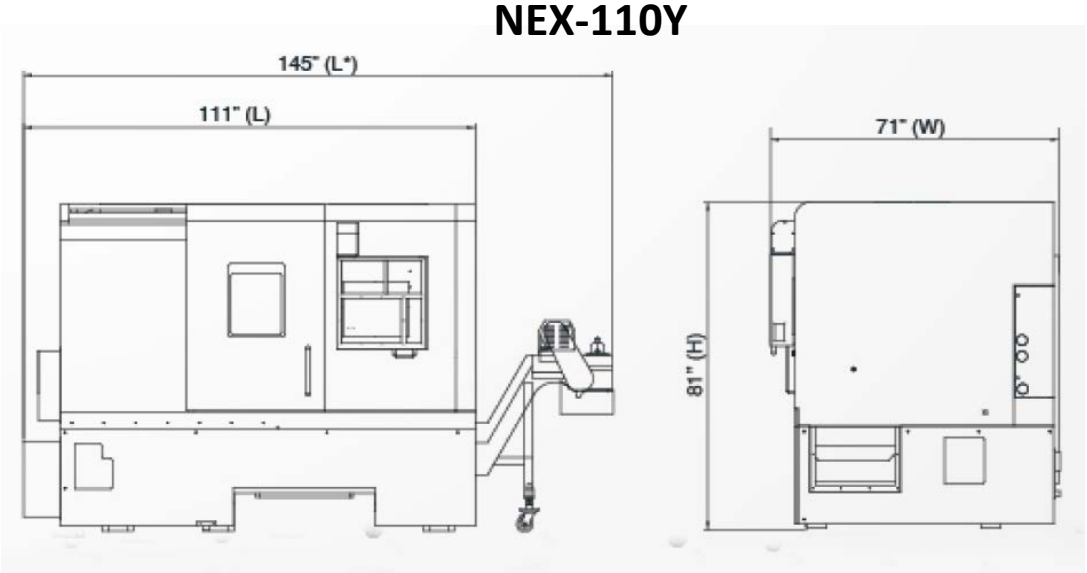
NEX-110



NEX-110M



NEX-110Y



Machine Specifications	Unit	NEX-110	NEX-110M	NEX-110Y
Capacity				
Max Swing	mm (in)	495 (19.4)	560 (22)	560 (22)
Std Turning Dia	mm (in)	275 (10.8)	244 (9.5)	244 (9.5)
Max Turning Dia	mm (in)	400 (15.7)	350 (13.8)	350 (13.8)
Max Turning Length	mm (in)	657 (25.8)	629.8 (24.8)	635 (25)
Max Bar Work Capacity	mm (in)		75 (3)	
Travel				
X Axis Travel	mm (in)		220 (8.7)	
Z Axis Travel	mm (in)		710 (28)	
Y Axis Travel	mm (in)	---	---	±50 (2)
Spindle				
Spindle Drive Type			2 Step Gearbox	
Spindle Speed	rpm		3500	
Chuck Size	in		10	
Spindle Nose			A2-8	
Through Hole Dia.	mm (in)		86 (3.5)	
Bearing Dia.	mm (in)		120 (4.7)	
Turret				
Number of Tool Stations		10	12	12
Turning tool shank	mm (in)		25.4 (1)	
Boring Bar Shank Dia.	mm (in)	50.8 (2)	38.1 (1.5)	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)		580 (22.8)	
Tailstock Spindle Dia.	mm (in)		110 (4.3)	
Quill Taper			MT #5	
Tailstock Spindle Travel	mm (in)		150 (5.9)	
Feedrate				
X Axis rapid traverse rate	m/min (ipm)	16 (630)	20 (787)	20 (787)
Z Axis rapid traverse rate	m/min (ipm)		20 (787)	
Y Axis rapid traverse rate	m/min (ipm)	---	---	10 (393)
Motor				
Spindle Drive Motor	kW (HP)		18.5/15 (25/20)	
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)	1755 (69)	1805 (71)	2050 (81)
Length	mm (in)		2830 (111)	
Width	mm (in)	1760 (69)	1805 (71)	1805 (71)
Weight	kg (lb)	5000 (11023)	6000 (13227)	6500 (14330)

Control Specification: Fanuc 0i-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 0i
	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 0i-T
- 10” 3 Jaw through-hole power chuck with one set of soft jaws
- Servo Motor Driven Bi-Directional Indexing Turret- Please check Stock of tool pockets 10 stations or 12 stations available
- Programmable Tailstock Quill
- Manual Tailstock Body (NEX-110), Programmable Tailstock Body (Dragged by Turret) NEX-110M/NEX-110Y ONLY
- 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
- One(1) set Leveling Pads
- One(1) set of Adjusting Tools and Tool Box
- Manuals: Operation, Control, Parts List, Electrical Diagram
- Standard Tooling Package: Four Boring Bar Holders, Two OD Tool Holders, Two Turning Tool Holders
- 1 set X&Y live tool holders ER32 **(M/Y spec only)**