

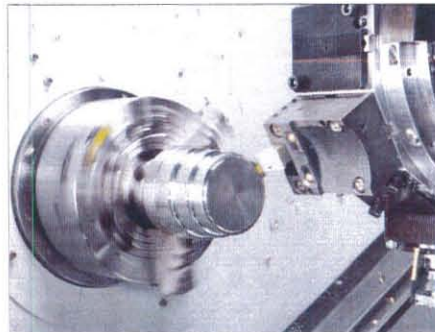
BMT60

Feeler HT-30SY

High Performance Milling Lathe

• **Standard Equipment**

- Fanuc 18i-TB control
- Y-axis
- 3,500RPM/30HP main spindle motor
- 6,000RPM/15HP sub-spindle motor
- 3" bar capacity main spindle, 1.7" sub-spindle
- 12 station turret w/9HP milling motor
- 10" 3-jaw power chuck main spindle
- 6" 3-jaw power chuck sub-spindle
- Two year warranty
- Chip conveyor
- Pneumatic parts catcher
- Bar feeder interface
- 100 psi coolant pump
- Static tool holder package
- Flood coolant over main spindle
- Automatic lubrication system
- Coolant gun
- Air gun
- Enclosed splash guard
- Dust-proof electrical cabinet
- 3-color signal light
- Safety interlock package





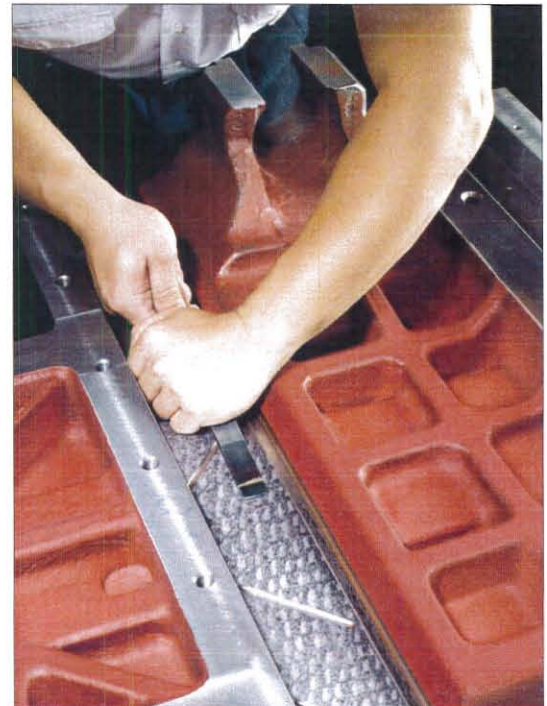
Feeler HT-30SY

High Performance Milling Lathe

• Detailed Specifications

FEELER HT-30SY	UNIT	SPECIFICATIONS
X-AXIS • BOXWAYS		
X-Axis Travel	inches (mm)	7" + 3.2" (178 + 82)
X-Axis Rapid Traverse	inches (m)/min	1,181" (30)
X-Axis Motor	Fanuc	α22iB
X-Axis HP	HP	5.4
X-Axis Ball Screw Diameter	inches (mm)	1.25" (32)
Y-AXIS • BOXWAYS		
Y-Axis Travel	inches (mm)	3.9" ± 2" (100 ± 50)
Y-Axis Rapid Traverse	inches (m)/min	394" (10)
Y-Axis Motor	Fanuc	α22iB
Y-Axis HP	HP	5.4
Y-Axis Ball Screw Diameter	inches (mm)	1.25" (32)
Z-AXIS • BOXWAYS		
Z-Axis Travel	inches (mm)	31.3" (795)
Z-Axis Rapid Traverse	inches (m)/min	1,181" (30)
Z-Axis Motor	Fanuc	α22i
Z-Axis HP	HP	5.4
Z-Axis Ball Screw Diameter	inches (mm)	1.4" (36)
E-AXIS • LINEAR GUIDEWAYS		
E-Axis Travel	inches (mm)	28.9" (734)
E-Axis Rapid Traverse	inches (m)/min	275" (7)
E-Axis Motor	Fanuc	α12iB
E-Axis HP	HP	4
E-Axis Ball Screw Diameter	inches (mm)	1.4" (36)
MAIN SPINDLE		
Main Spindle Motor	Fanuc	αP40i
Main Spindle HP/RPM	HP/RPM	30HP/3,500RPM
Main Spindle Nose	-	A2-8
Main Spindle Chuck Diameter	inches (mm)	10" (254)
Hole Through Main Spindle	inches (mm)	3.6" (91)
SUB SPINDLE		
Sub Spindle Motor	Fanuc	α8i
Sub Spindle HP/RPM	HP/RPM	15HP/6,000RPM
Sub Spindle Nose	-	A2-5
Sub Spindle Chuck Diameter	inches (mm)	6" (170)
Hole Through Sub Spindle	inches (mm)	2.2" (56)

Specifications subject to change without notice





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• Machine Dimensions / Turret Specifications

FEELER HT-30SY	UNIT	SPECIFICATIONS
WORKING RANGE		
Slant Angle	°	30°
Distance Between Slideway and Z-Axis	inches (mm)	17.2" (437.5)
Swing Over Bed	inches (mm)	36.4" (923.8)
Swing Over Saddle	inches (mm)	29.7" (755)
Standard Turning Diameter	inches (mm)	10.8" (275)
Maximum Turning Diameter	inches (mm)	14" (356)
Maximum Turning Length	inches (mm)	27.8" (705)
Bar Capacity – Main Spindle	inches (mm)	3" (78)
Bar Capacity – Sub Spindle	inches (mm)	1.7" (44)
Maximum Workpiece Weight - 10" Chuck	lbs.(kg)	86 (39)
Maximum Workpiece Weight - 6" Chuck	lbs.(kg)	33 (15)
TURRET		
Turret Motor	Fanuc	α30i – 9HP
Number of Tools	-	12
Shank Height for Square Tool	inches (mm)	1" (25)
Shank Diameter for Boring Bar	inches (mm)	1.25" (40)
Turret Indexing Time	sec.	0.25
Live Tool Motor	Fanuc	α30i – 9HP
Milling Tool Maximum Diameter	inches (mm)	.8" (20)
Maximum Live Tool Speed	rpm	3,000
Tool Holder Size	-	BMT 60
Maximum Permissible Torque on Tool Drive Coupling	ft.lbs. (Nm)	61 (83)
DIMENSIONS / WEIGHT		
Floor Space w/Chip Conveyor	inches (mm)	176" x 76.8" (4,470 x 1,950)
Weight	lbs.(kg)	14,330 (6,500)
Maximum Machine Height	inches (mm)	86.2" (2,190)
Coolant Tank Capacity	gal.(liters)	70 (265)
Power Capacity	KVA	50

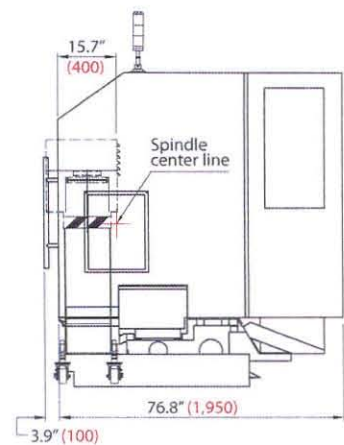
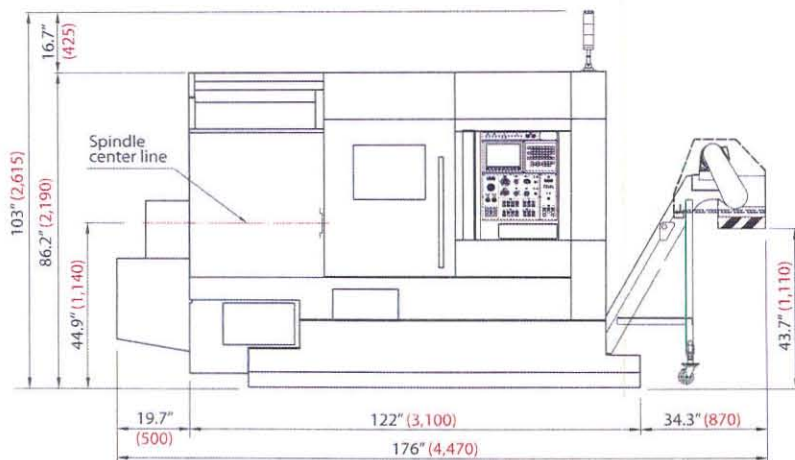
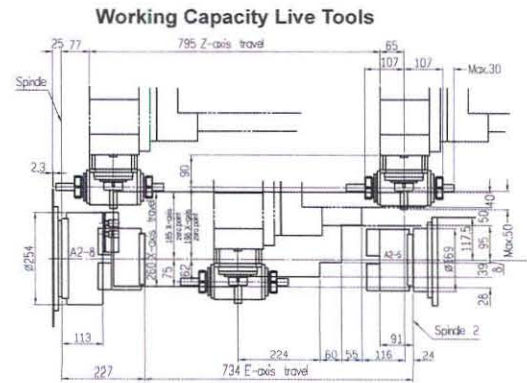
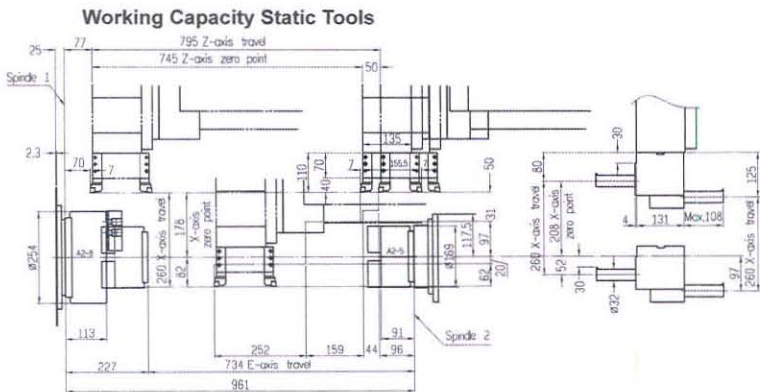
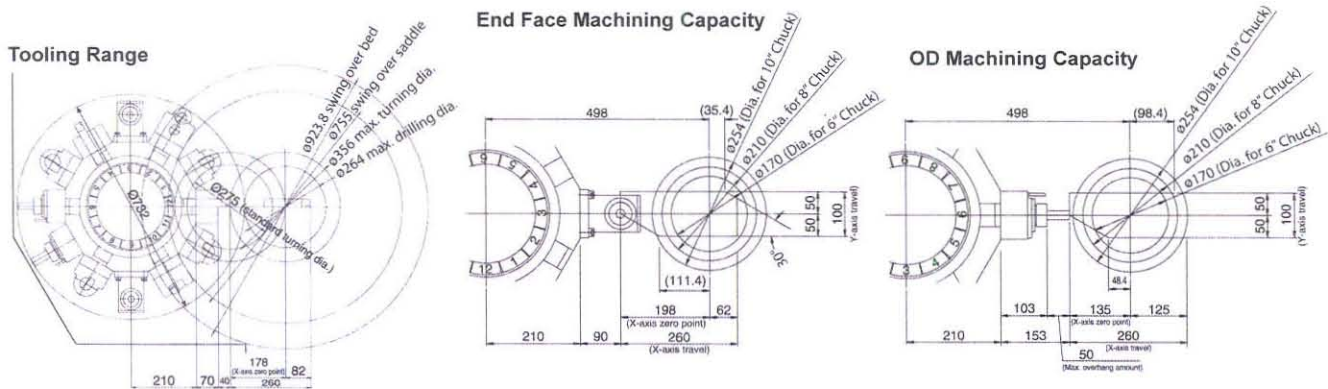
Specifications subject to change without notice



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- Machine Dimensions / Turret Specifications**





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• HT-30SY Accuracies (ISO-230-2)

POSITIONING	UNIT	PERMISSIBLE	TYPICAL MEASURED
X-Axis	inches (mm)	.00039 (0.01)	.00016 (.004)
Z-Axis	inches (mm)	.00039 (0.01)	.00028 (.007)
REPEATABILITY	UNIT	PERMISSIBLE	TYPICAL MEASURED
X-Axis	inches (mm)	.00024 (.006)	.00012 (.003)
Z-Axis	inches (mm)	.00024 (.006)	.00012 (.003)

Actual measured results may vary • Specifications subject to change without notice

• Fanuc 18i-TB Control Specifications

- Controlled axes: 4
- Simultaneously controlled axes: 4
- HRV 3 control
- Inch/Metric conversation
- Machine lock
- Mirror image
- Rigid tapping
- Single direction position
- Dwell
- Linear interpolation
- Circular interpolation
- Helical interpolation
- Skip Function
- Reference point return
- Feed per minute
- 2nd reference point return
- Feedrate override
- Jog override
- Program No. Search
- Sequence No. Search
- Dry run
- Jog feed
- Manual reference return
- Optional block skip
- Program number
- Sequence number
- Absolute/incremental programming
- Plane selection
- Automatic coordinate setting
- Stored pitch error compensation
- Actual Cutting feed rate display
- Spindle information screen
- Alarm history display
- Operator history display
- Graphic function
- Dynamic graphic function
- Memory card interface
- Embedded Ethernet
- 10.4" LCD color display
- Manual guide i
- Additional of custom macro variables common
- Sub program call
- Extended part program editing
- Coordinate setting
- Manual absolute on and off
- Custom macro B
- Programmable data input
- Coordinate setting
- Circular interpolation by program
- Automatic corner deceleration
- Canned cycles for Lathe
- Tool Offset pairs (64)
- Tool life management
- Backlash compensation for each rapid traverse
- RS-232C communication
- Current position display
- Program display
- Self-diagnosis function
- Parameter setting display
- Run hour/part cont. display
- 640M Memory





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• *Fanuc 18i-TB Control Options*

- Fast Ethernet Data server (1GB)
- AI Nano Contour Control (180 Block Look Ahead)
- AI Nano Precision Contour Control with RISC (600 Block Look Ahead)
- Part Program Storage 1280M (.5MB)
- Part Program Storage 2560M (1MB)
- 48 Additional work coordinates
- 300 Additional work coordinates
- 1000 Registered Programs
- Multi Step Skip
- High Speed Skip
- Tool Offset Pairs 99
- Tool Offset Pairs 400
- Tool Offset Pairs 999

• *HT-30SY Options*

HT-30SY OPTIONS	PART #
Tool pre-setter	
Hi/Low chucking	
Spindle workholding packages	
Fire suppression	
Mist collectors	
Automation packages	
Methods turnkey solutions	
Turret tooling packages	

HT-30SY • 060810



Page 7 of 7