

STC Slant Bed Turning Center Pricing

Effective September 1, 2008 Rev. A



Machine Model	STC6	STC10	STC12
Chuck Size	6"	10"	12"
Spindle Bar Capacity	1.65" <i>42mm</i>	2.55" <i>65mm</i>	3.58" <i>91mm</i>
Fanuc Spindle Horsepower <i>1 minute / 30 minutes</i>	26/20 HP <i>19/15 kw</i> Two Speed	26/20 HP <i>19/15 kw</i> Two Speed	26/20 HT HP <i>19/15 kw</i> Two Speed
Turret – See Accessories for Other Turret Options	8 Position, 1" <i>25mm</i>	8 Position, 1" <i>25mm</i>	8 Position, 1 ¼" <i>25mm</i>

MACHINE FEATURES	
<ul style="list-style-type: none"> • Remote Handwheel • Heavy Duty Linear Way Construction • Precision Ground Ball Screws • Metal Way Covers • Automatic Metered Lubrication with Low Lube Fault • 1" <i>25mm</i> 8 Position or ¾" <i>20mm</i> 12 position Automatic Turret on STC6 and STC10 and 8 Position 1 ¼" on STC12 • Hydraulic Tail Stock with Tail Stock Foot Switch • Heavy Duty Metal Enclosure with Work Lamp • Parts Catcher (Limits Diameter) • Automatic Home Sequence with Home Switches 	<ul style="list-style-type: none"> • Hydraulic 3 Jaw Chuck with Foot Switch (Optional Collet System) • Flood Coolant System • Chip Conveyor Chip Removal System • Closed Loop High Torque Vector Spindle Drive System • Precision Spindle with Large Spindle Bore • Door Interlock Safety Switch • End of Cycle Light • LCD Hour Meter • Two Year Parts Warranty • Optional Tool Setter, Programmable Tailstock & Live Tooling

GE FANUC 0i-TC CONTROL FEATURES	
<ul style="list-style-type: none"> • ManualGuide™ Conversational Programming System • Dynamic Graphic Display • 256 Kb Program Storage • Macro Executor • 10.4" Color LCD Display • Scaling, Rotation & Mirror Imaging 	<ul style="list-style-type: none"> • PCMCIA Slot • Remote Electronic Handwheel Unit • 8ms Block Processing Speed (4ms with AICC Option) • RS232 Port with DNC Capability • Bound Machine and Programming Manuals

OTHER ACCESSORIES			
Upgrade to 12 Position ¾" <i>20 mm</i> Turret			
Baruffaldi TRMA Live Tooling, Servo Turret, 8 Station S6, 10 Minute Live Tool Duty Rating – VDI40 Turret Face <i>No tooling supplied with turret, Fixed or Rotating – Contact Distributor for Applications</i>			
Spindle Orient <i>Required for Live Tooling</i>			
Spindle Brake <i>Required for Live Tooling</i>			
Standard Axial VDI40 Rotating Tool Holder			
Standard Radial VDI40 Rotating Tool Holder			
Optional Barfeeder with Spindle Orient <i>Consult factory for spindle extension sleeves</i>			
VDI Turret Face (No Tool Holders)			
Metric Turret Face, 20 or 25 mm			
Barfeeder Interface Only with Spindle Orient <i>Interface designed for Milltronics Barfeeder only. Consult the factory for other barfeeder interface.</i>			

LIVE TOOLING – CONTACT DISTRIBUTOR FOR APPLICATION			
Spindle Orient Required with Live Tooling BMP Live Tooling, 8 Station, Live Tooling Duty Cycle Rating (Rear Mounted), No Tooling Supplied with Turret			
For STC6 and STC10 Model VDI40.7.5.HP – Model 160			
For STC12 and STC12XT VD150.7.5.HP – Model 160			
Spindle Brake Required with Live Tooling			
Standard Axial Holder			
Standard Radial Holder			
OTHER ACCESSORIES - Continued			
5C Collet Chuck, <i>Collet chuck option is purchased additional to the standard chuck supplied with the machine</i>			
16C Collet Chuck, <i>Collet chuck option is purchased additional to the standard chuck supplied with the machine</i>			
Tool Presetter – Mechanical			
Additional Boring Bar Holder – 2 supplied standard with machine			
Axial Tool Holder – 1 supplied standard with machine			
Programmable Tailstock			
Chip Removal Bucket for Conveyor			
Electrical Cabinet A/C Unit – <i>Recommended in shops exceeding 90° F / 32° C</i>			
Spare “M” Functions – Block of 4 <i>Maximum 2 blocks; price is for each block</i>			
RS-232 Cable, 50' 15 meters			
Additional Bound Programming, Maintenance or Operational Manual(s) - <i>each</i>			
Additional Programming Manual in Electronic Format on CD			
Additional Machine Manual			
Fanuc Power Requirements 208-240 VAC, 50 – 60 hz, 3Ø			
380-480 Transformer (Reduces Voltage to 208-240) <i>Factory recommended sizes. Consult local electrical codes for proper transformer sizing.</i>			
UL/CUL Compliance			
CE Code <i>Required for European Union Countries</i>			
International Packaging			
On Site Factory Installation, U.S. only <i>Does not include airfare – Training available through Siemens or Fanuc</i>			
<p><i>Terms within USA: Cash or terms with approved credit; down payment due with order</i></p> <p><i>Terms outside USA: Cash or approved Letter of Credit, F.O.B Waconia, MN USA</i></p> <p><i>Milltronics reserves the right to amend or change without notice without incurring obligation; not responsible for typographical errors.</i></p>			

STC Slant Bed Turning Center Specifications

Effective September 1, 2008



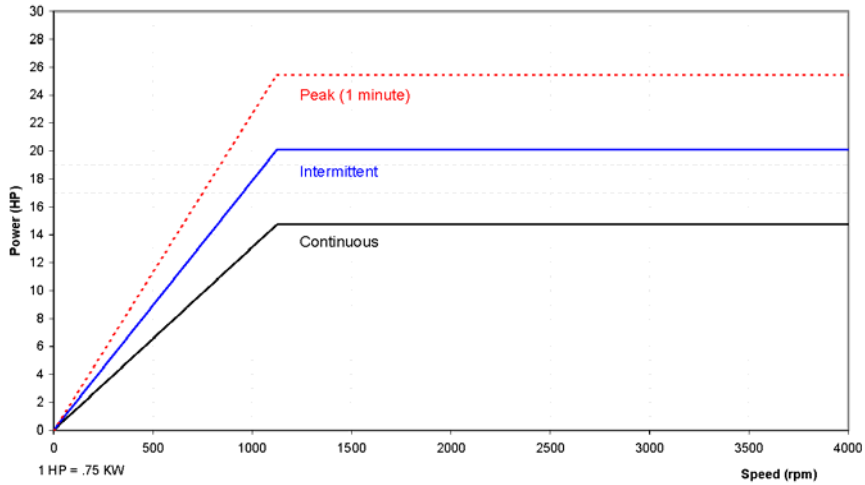
Machine Model Control Type	STC6	STC10	STC12 & STC12XT
CAPACITY		Fanuc 0i	
Swing Over Way Cover	20" <i>510 mm</i>	20" <i>510 mm</i>	30" <i>760 mm</i>
Swing Over Carriage	9" <i>230 mm</i>	9" <i>230 mm</i>	23" <i>600 mm</i>
Turret – Standard	8 Position	8 Position	8 Position
Turret - Optional	12 Position	12 Position	N/A
Travel (X Axis) Cross Slide	8" <i>200 mm</i>	8" <i>200 mm</i>	8.85" <i>225 mm</i>
Travel (Z Axis) Long Slide	21" <i>530 mm</i>	21" <i>530 mm</i>	29.5" <i>750 mm</i>
Travel (Z Axis) Long Slide Extended Bed Travel	N/A	N/A	49.5" <i>1250 mm</i>
Bar Capacity, Diameter	1.65" <i>42 mm</i>	2.55" <i>65 mm</i>	3.58" <i>91 mm</i>
Chuck Size	6" <i>152 mm</i>	10" <i>250 mm</i>	12" <i>305 mm</i>
Machine Weight	7000 lb <i>3180 kg</i>	7000 lb <i>3180 kg</i>	13,250 lb <i>6000 kg</i>
Extended Machine Weight	N/A	N/A	18,750 lb <i>8500 kg</i>
Ball Screw Diameter	32mm	32 mm	36 mm
Ball Screw Grade	C5	C5	C3
Ball Screw Pitch <i>X axis & Z axis</i>	10 mm	10 mm	12 mm
Spindle Load Capacity (Work Holding + Part)	300 lb <i>135 kg</i>	450 lb <i>200 kg</i>	
Turning Diameter, <i>Max with 8 & 12 Station Turret</i>	12.25" <i>310 mm</i>	12.25" <i>310 mm</i>	17.71" <i>450 mm</i>
SPINDLE			
Fanuc Horsepower Two Speed <i>1 minute / 30 minutes</i>	26/20 HP <i>19/15 kw</i>	26/20 HP <i>19/15 kw</i>	38/30 HT HP <i>38/22 kw</i>
Reference Torque Chart	26/20/2/B/F		38/20/2/B/F
Spindle Nose Type	A2 – 5	A2 – 6	A2 – 8
Spindle Speed	50-6000	50-4000	25-2500
Chuck Size - Hydraulic	3 Jaw, 6" <i>165 mm</i>	3 Jaw, 10" <i>250 mm</i>	3 Jaw, 12" <i>305 mm</i>
16C Collet System or 5C Collet System	Optional	Optional	N/A
Hydraulic Tail Stock with Tail Stock Foot Switch	Standard	Standard	Standard
Tail Stock Quill Stroke	2" <i>50 mm</i>	2" <i>50 mm</i>	4.7" <i>120 mm</i>
Tail Stock Quill Diameter	2.55" <i>65 mm</i>	2.55" <i>65 mm</i>	3.54" <i>90 mm</i>
Tail Stock Thrust (<i>Hydraulic</i>)	550 lb <i>250kg</i>	550 lb <i>250kg</i>	584 lb <i>265kg</i>
Tail Stock Base Travel	17" <i>432 mm</i>	17" <i>432 mm</i>	22" <i>550 mm</i> XT - 41" <i>1050 mm</i>
Tail Stock Quill Taper Size Programmable Tail Stock	MT4 With Cross Slide	MT4 With Cross Slide	MT5 With Cross Slide
TOOLING			
Standard Turret	1" <i>25mm</i> 8 Position	1" <i>25mm</i> , 8 Position	1 ¼" <i>32mm</i> , 8 Position
Optional Turret	¾" <i>20mm</i> 12 Position	¾" <i>20mm</i> 12 Position	N/A
Turret Indexing Mechanism	Electro / Mechanical Hurth Coupling		Hydraulic
Turret Time, 1 Station	0.7 Sec.	0.7 Sec.	0.4 Sec.
VDI Turret Face	Optional	Optional	N/A
Tool Shank Size – Standard 8 Station Turret	1 x 5" <i>25 x 125mm</i>	1 x 5" <i>25 x 125mm</i>	1 ¼ x 6" <i>32 x 150 mm</i>

Machine Model Control Type	STC6	STC10	STC12 & STC12XT
Tool Shank Size – Optional 12 Station Turret	¾ x 5" <i>20 x 125mm</i>	¾ x 5" <i>20 x 125mm</i>	N/A
Boring Bar Capacity – Standard 8 Station Turret	1.5" <i>38mm</i>	1.5" <i>38mm</i>	2" <i>50mm</i>
Boring Bar Capacity – Option 12 Station Turret	1.25" <i>32mm</i>	1.25" <i>32mm</i>	N/A
PERFORMANCE			
Servo Type	AC Digital	AC Digital	AC Digital
Rapid Traverse X & Z	1,000 ipm <i>25.4 mpm</i>	1,000 ipm <i>25.4 mpm</i>	1,000 ipm <i>25.4 mpm</i>
Maximum Feedrate	400 ipm <i>2540 mmpm</i>	400 ipm <i>2540 mmpm</i>	400 ipm <i>2540 mmpm</i>
Position Accuracy <i>See note</i>	±0.00039" <i>0.0001 mm</i>	±0.00039" <i>0.0001 mm</i>	±0.00039" <i>0.0001 mm</i>
Repeatability <i>See note</i>	0.00019" <i>0.0005 mm</i>	0.00019" <i>0.0005 mm</i>	0.00019" <i>0.0005 mm</i>
Thrust, Machine Duty Rating	X: 1000 lb <i>450 kg</i> Z: 1000 lb <i>450 kg</i>	X: 1000 lb <i>450 kg</i> Z: 1000 lb <i>450 kg</i>	X: 1000 lb <i>450 kg</i> Z: 2000 lb <i>950 kg</i>
MISCELLANEOUS			
Optional Barfeeder – Bar Diameter	.2 - 1.5" <i>5 - 38 mm</i>	.2 - 2.55" <i>5 - 65mm</i>	.2 - 2.55" <i>5 - 65mm</i>
Optional Barfeeder – Maximum Bar Length	30" <i>760 mm</i>	30" <i>760 mm</i>	30" <i>760 mm</i>
Optional Barfeeder – Loading Capacity	10 Bars x 2.55" <i>65mm</i>	10 Bars x 2.55" <i>65mm</i>	Contact Factory
Parts Catcher Capacity	1.5 x 5" <i>38 x 125 mm</i>	1.5 x 5" <i>38 x 125 mm</i>	3 x 6" <i>80 x 150 mm</i>
Separate Lube Oil Collection <i>Prevents Oil Contamination</i>	Standard	Standard	Optional Standard
Optional Electrical Cabinet Air Conditioning Unit	4000 BTU	4000 BTU	4000 BTU
Flood Pump	¾ HP	¾ HP	¾ HP
Flood Capacity	36 Gal <i>140 L</i>	36 Gal <i>140 L</i>	48 Gal <i>185 L</i>
1.5 HP <i>1.1 kw</i> Hydraulic Pump	Standard	Standard	Standard
Hydraulic Tank Capacity	10.5 Gal <i>40 L</i>	10.5 Gal <i>40 L</i>	12 Gal <i>45 L</i>
Hydraulic Oil Type <i>(Or equivalent)</i>	Mobil DTE 24	Mobil DTE 24	Mobil DTE 24
Way Lube Type <i>(Or equivalent)</i>	Vactra #2	Vactra #2	Vactra #2
Way Surface	30 mm Linear Way	30 mm Linear Way	Box Ways
Floor Space Requirement With Conveyor	126" x 71" <i>3200 x 1800 mm</i>	126" x 71" <i>3200 x 1800 mm</i>	162" x 70" <i>4115 x 1755 mm</i>
Floor Space Requirement With Conveyor on Extended Bed	N/A	N/A	182" x 70" <i>4615 x 1755 mm</i>
Warranty	Parts: Two year or 4200 hours, whichever occurs first on all normal failures. Service: One year or 2100 hours (whichever occurs first) from Distributor.		
MACHINE SIZE AND POWER			
Bed Inclination	30°	30°	45°
Overall Length Without Accessories	91" <i>2300 mm</i>	91" <i>2300 mm</i>	119" <i>3015 mm</i>
Overall Length Without Accessories Extended Travel	N/A	N/A	139" <i>3515 mm</i>
Overall Height	69" <i>1750 mm</i>	69" <i>1750 mm</i>	80" <i>2015 mm</i>
Overall Width	71" <i>1800 mm</i>	71" <i>1800 mm</i>	70" <i>1755 mm</i>
Fanuc Power Requirements 208-240 VAC, 50-60hz, 3Ø	50 amps 19 KVA	50 amps 19 KVA	75 amps 30 KVA
<p><i>Note: Measurements performed with Renishaw laser and ballbar systems. Measurements are linear over entire travel. Temperature changes and table loads may affect tolerances. Tolerances are guaranteed over 10" sq. area. Milltronics reserves the right to change specifications at any time without incurring obligation.</i></p>			

Fanuc Torque Chart 26/20/2/B/F – STC6

Used on: Standard STC6
Optional N/A

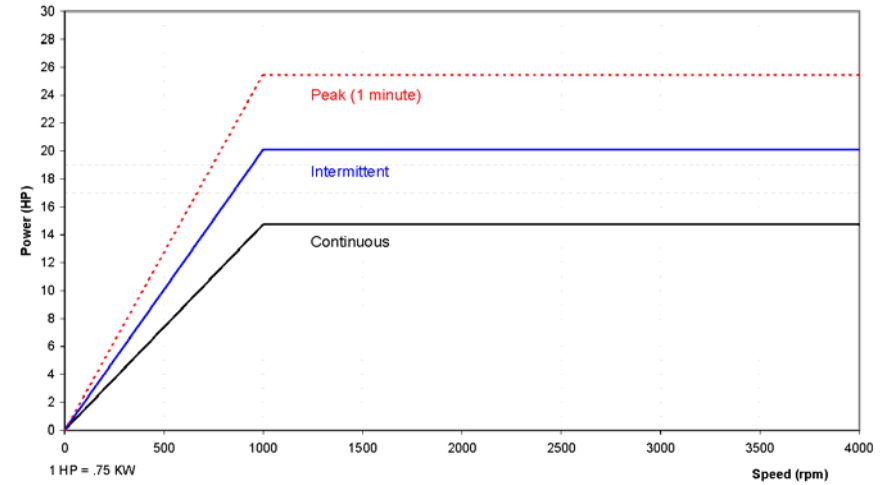
Fanuc ai 12/10000 Belted 1.33:1 Power Characteristics of SL6 With 26/20 HP Single Winding Motor



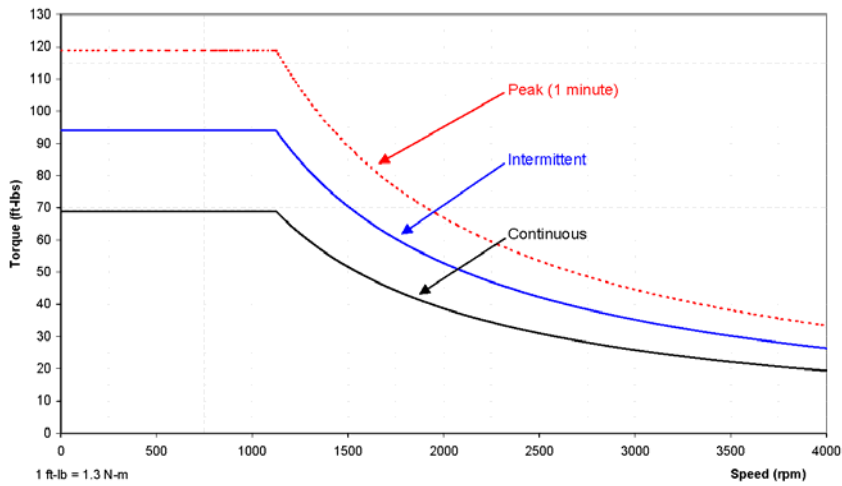
Fanuc Torque Chart 26/20/2/B/F – STC10

Used on: Standard STC10
Optional N/A

Fanuc ai 12/10000 Belted 1.5:1 Power Characteristics of SL10 With 26/20 HP Single Winding Motor



Fanuc ai 12/10000 Belted 1.33:1 Torque Characteristics of SL6 With 26/20 HP Single Winding Motor



Fanuc ai 12/10000 Belted 1.5:1 Torque Characteristics of SL10 With 26/20 HP Single Winding Motor

