

FAIR FRIEND • ENGINEERING • EXCELLENCE • LEADERSHIP • EXPERTISE • RELIABILITY



HEADQUARTERS
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FEELER MACHINE TOOLS DIVISION
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ISO 9001
ISO 14001



Website



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FTC *SERIES*

CNC Turning Center

FTC-10

Main Features:

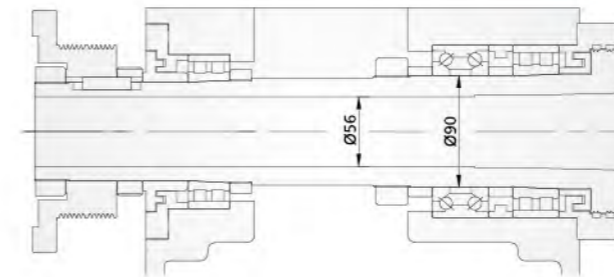
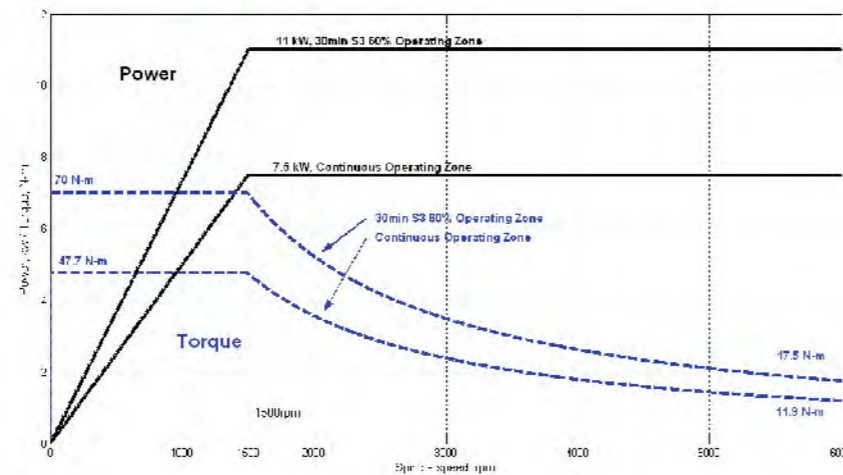
- Swing over bed $\varnothing 520$ mm
- Standard turning diameter $\varnothing 180$ mm
- Max. turning diameter $\varnothing 240$ mm
- Max. turning length 255 mm



Automatic Tool Setter



Power/Torque characteristic of Fancu $\alpha 8/8000i$ for A2-5 Spindle



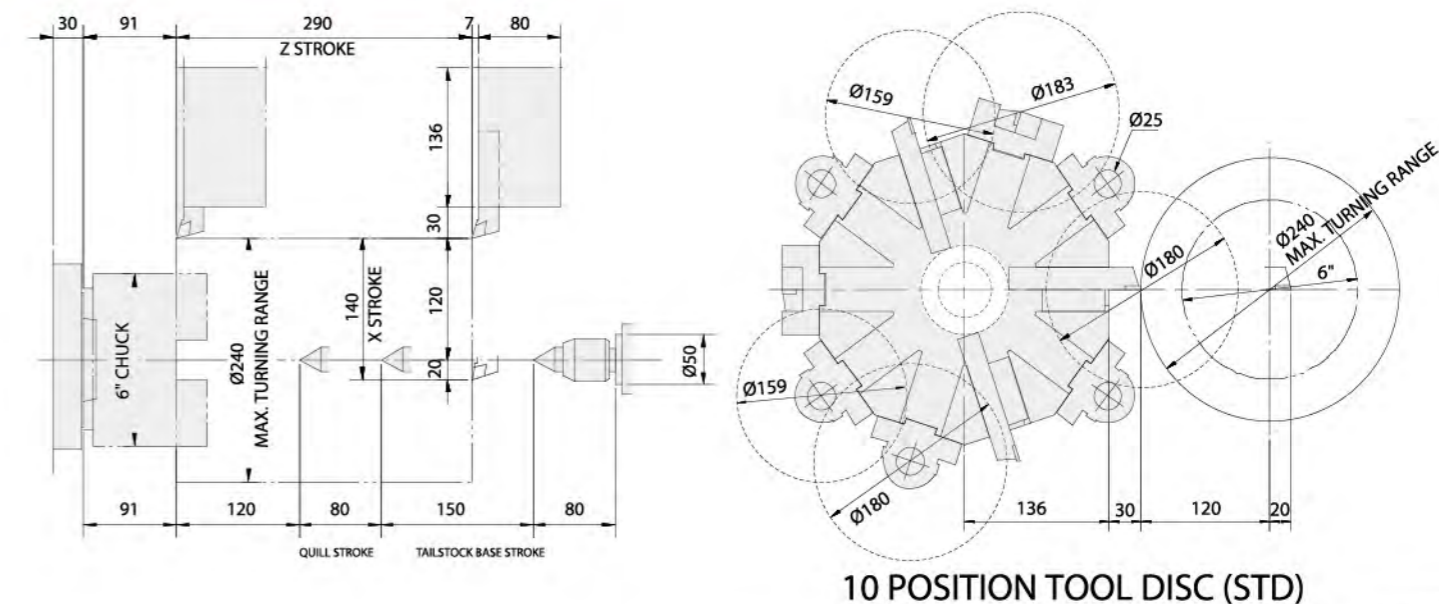
HIGH PRECISION SPINDLE

High precision double direction angular contact thrust ball bearings are equipped on the spindle unit to meet the needs of heavy cutting. The special dissipation design on headstock eliminates heat from the spindle bearings, which also prolongs life of bearings and ensures spindle reliability.

FTC-10 Tooling System

<ul style="list-style-type: none"> OD. & FACE CUTTING $\square 20$ OD. & FACE CUTTING $\square 20$ ID. CUTTING $\varnothing 25$ BORING BAR ID. CUTTING $\varnothing 20$ OR LESS BORING BAR DRILL U DRILL 	<ul style="list-style-type: none"> WEDGE BLOCK ID. & FACE HOLDER BORING BAR SLEEVE MT DRILL SOCKET $\varnothing 20$ OR LESS U DRILL SOCKET 	<ul style="list-style-type: none"> 10 125043A 2 185043A 10 185037 2 185038 2 185004B 5 185307E 185034B 185307E 	<p>10 POSITION TOOL DISC (STD)</p> <p>"O" STANDARD QUANTITY</p>
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FTC-10 Working Capacity



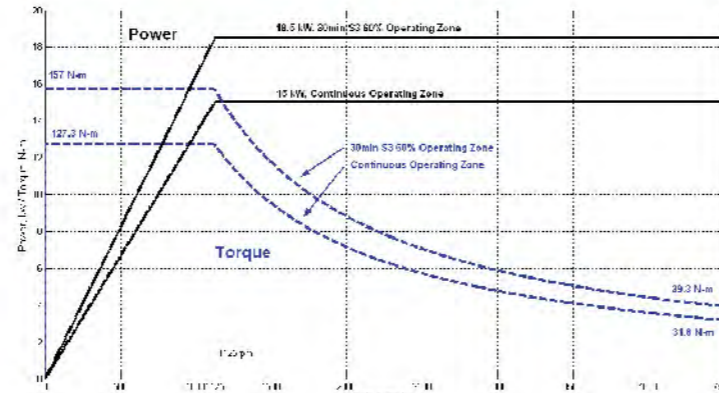
FTC-20

Main Features:

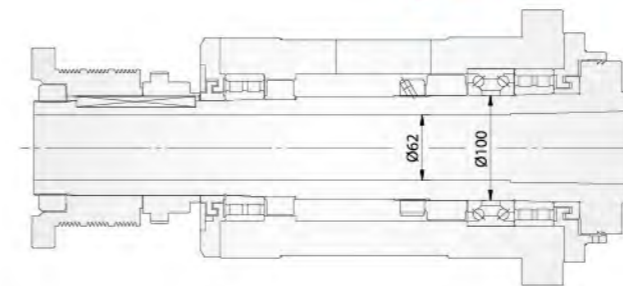
- Swing over bed $\varnothing 600\text{mm}$
- Standard turning diameter $\varnothing 250\text{ mm}$
- Max. turning diameter $\varnothing 350\text{ mm}$
- Max. turning length 343/613mm



Power/Torque characteristic of Fancu $\alpha 8/8000i$ for A2-6 Spindle



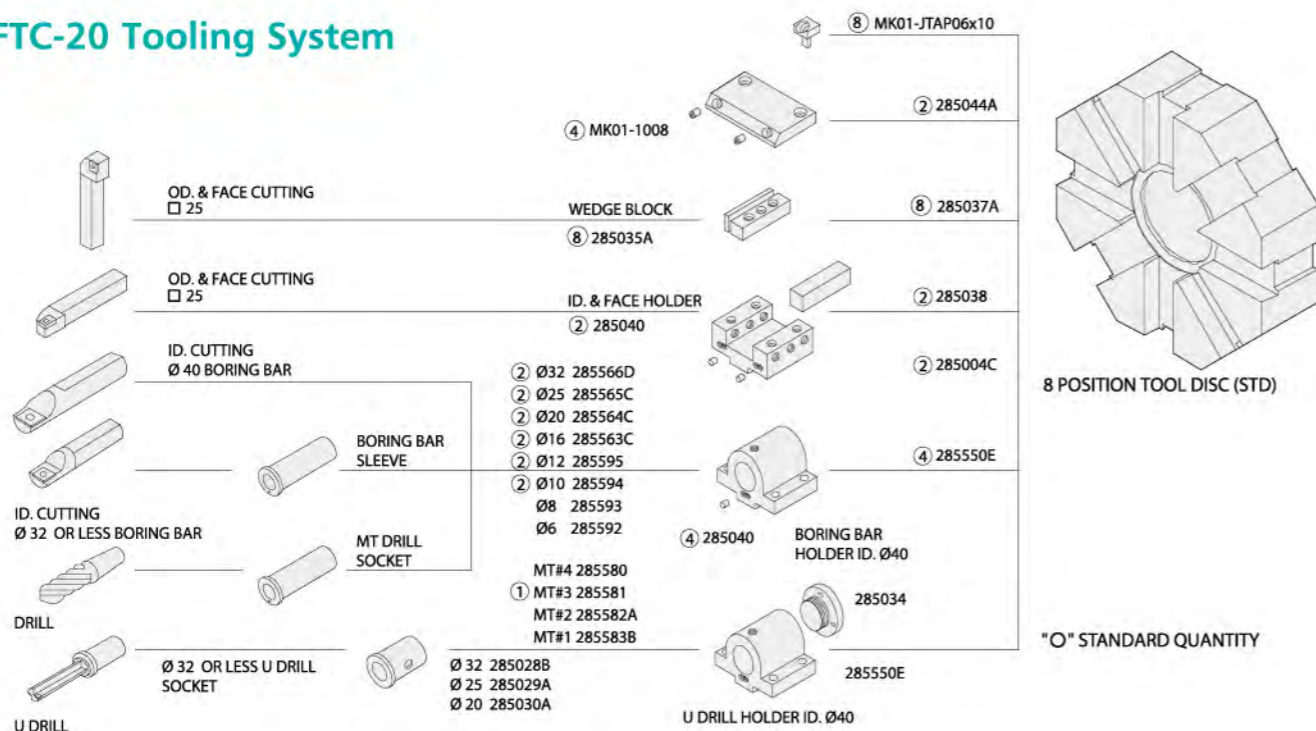
Automatic Loading / Unloading



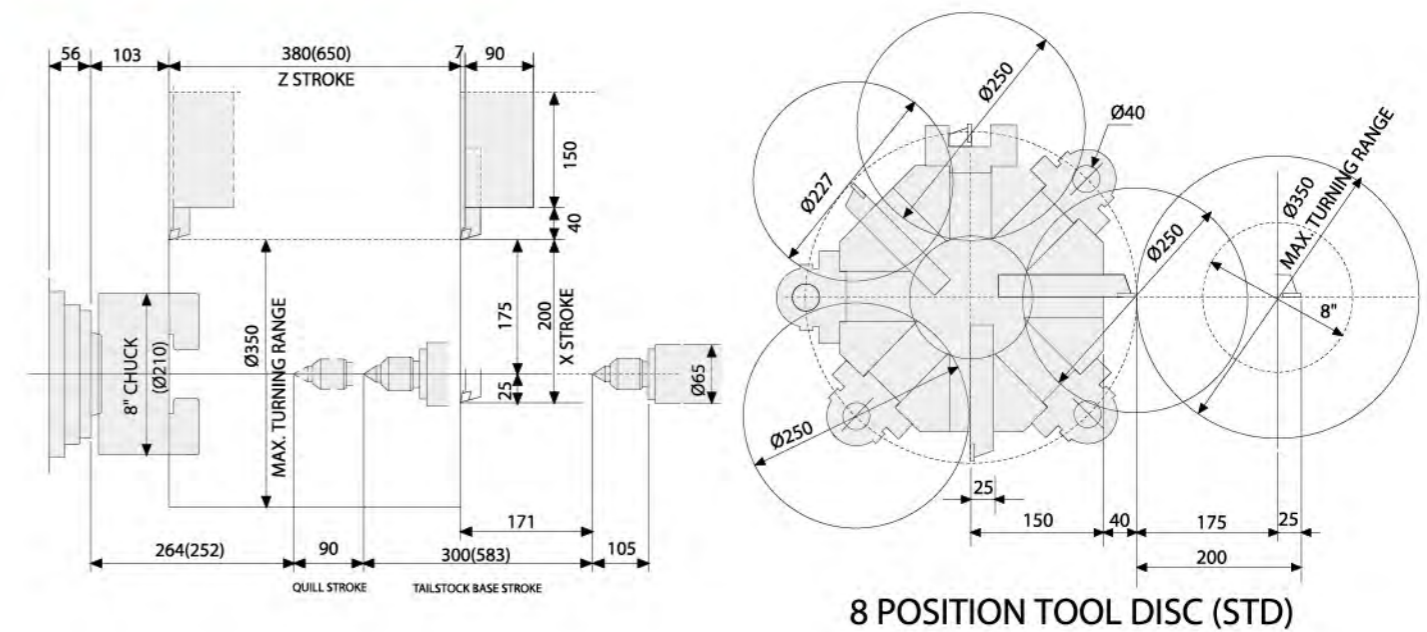
HIGH PRECISION SPINDLE

High precision double direction angular contact thrust ball bearings are equipped on the spindle unit to meet the needs of heavy cutting. The special dissipation design on headstock eliminates heat from the spindle bearings, which also prolongs life of bearings and ensures spindle reliability.

FTC-20 Tooling System



FTC-20 Working Capacity



FTC-30

Main Features:

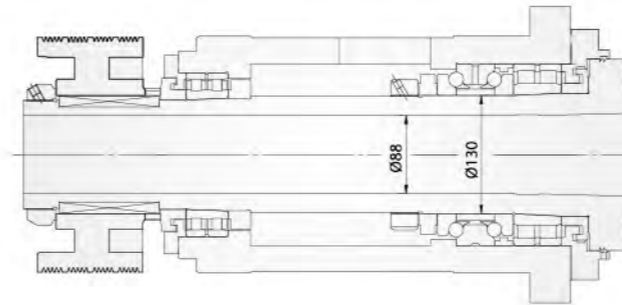
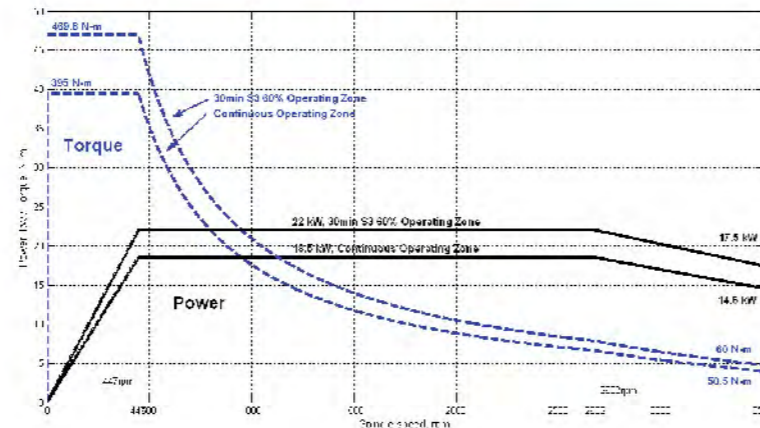
- Swing over bed Ø580 mm
- Standard turning diameter Ø310 mm
- Max. turning diameter Ø450 mm
- Max. turning length 621 mm



Heat Dissipation Headstock



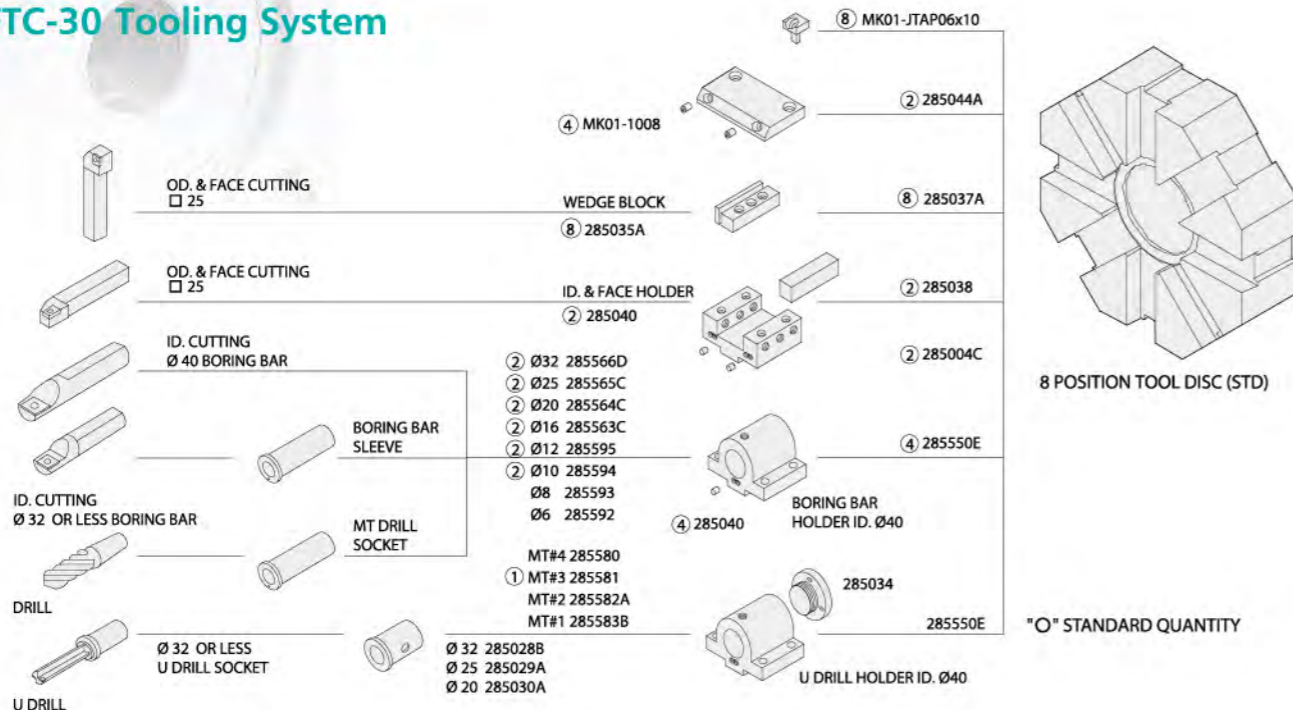
Power/Torque characteristic of Fanuc ap40/6000 for A2-8 Spindle



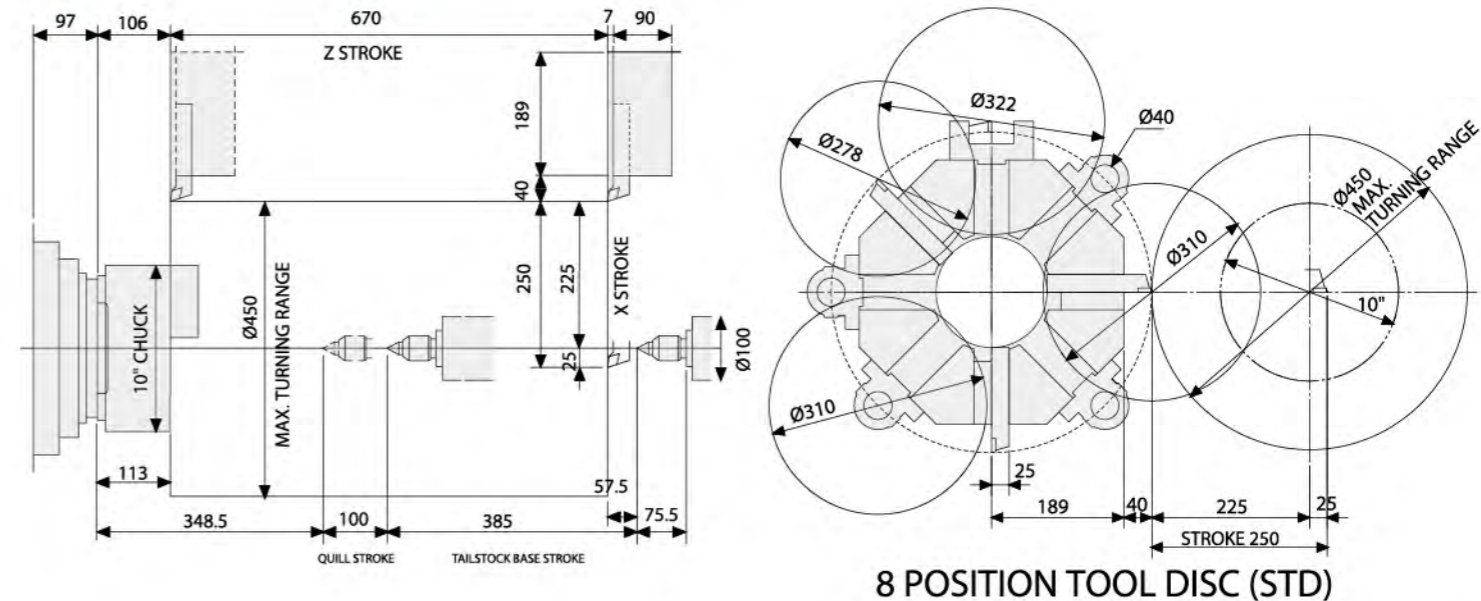
HIGH PRECISION SPINDLE

High precision double direction angular contact thrust ball bearings are equipped on the spindle unit to meet the needs of heavy cutting. The special design on headstock eliminates heat from the spindle bearings, which also prolongs life of bearings, which also ensures spindle reliability.

FTC-30 Tooling System

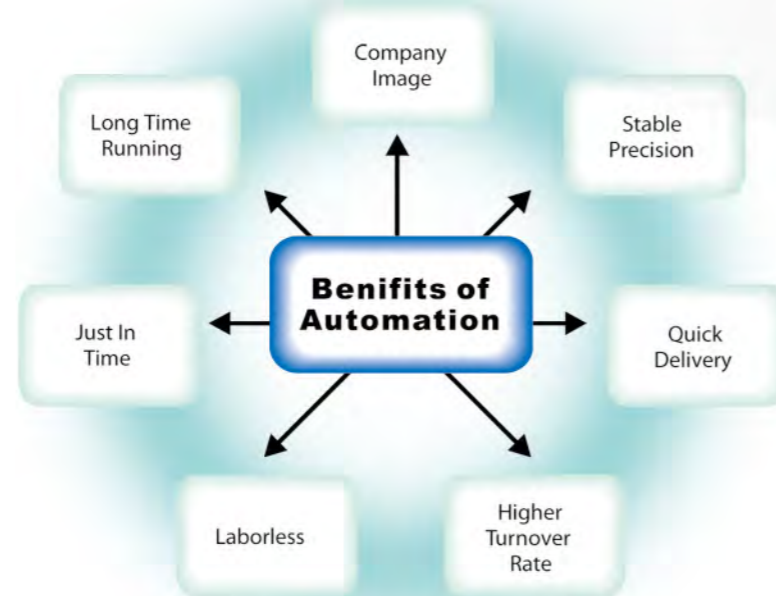


FTC-30 Working Capacity

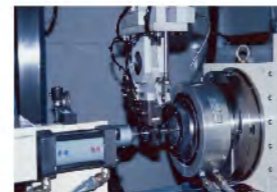
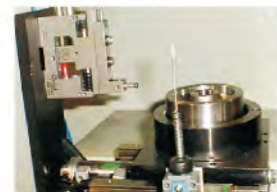
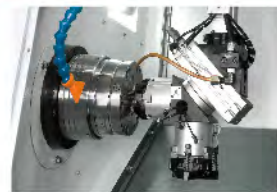


Unmanned Production System

The well designed unmanned production system from FEELER is suitable for mass production of parts. The system provides clock-round, fully automated production without any operator. Manpower is required only on procedures of raw material supply and finished parts collection. Undoubtedly, this machining system is the ultimate solution for maximum productivity and profits along with minimum labor cost.



工業局認證通過A3自動化專業輔導廠



Parallel jaw

Automatic part-measuring

Adjustable quill movement

Hydraulic tailstock / The 4th axis

Turn over station

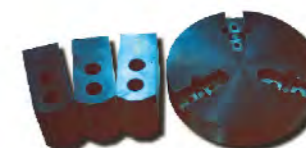
■ Pallet Type WF-02

■ Built in robot cell+Pallet Type WF-02

■ 13-Plate Supplier



Product Transport Conveyor

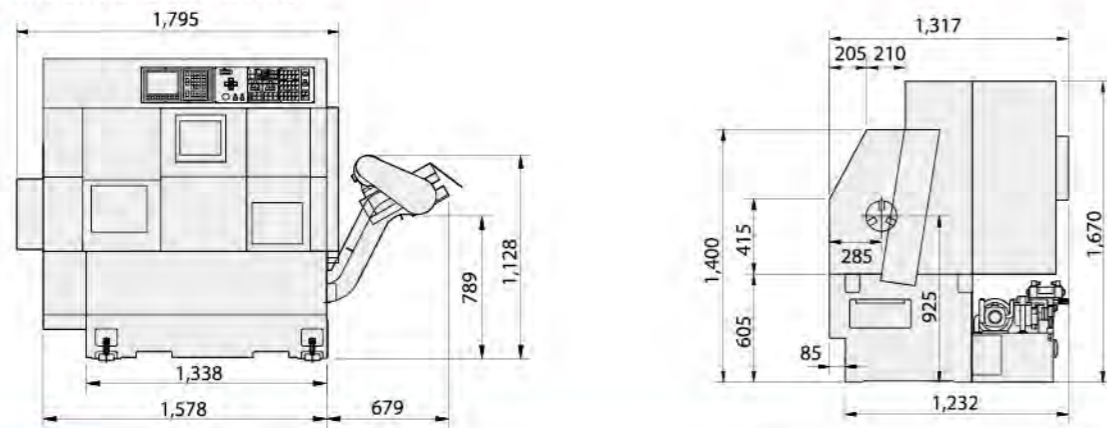


Jaw-Fix Tool / Soft Jaw

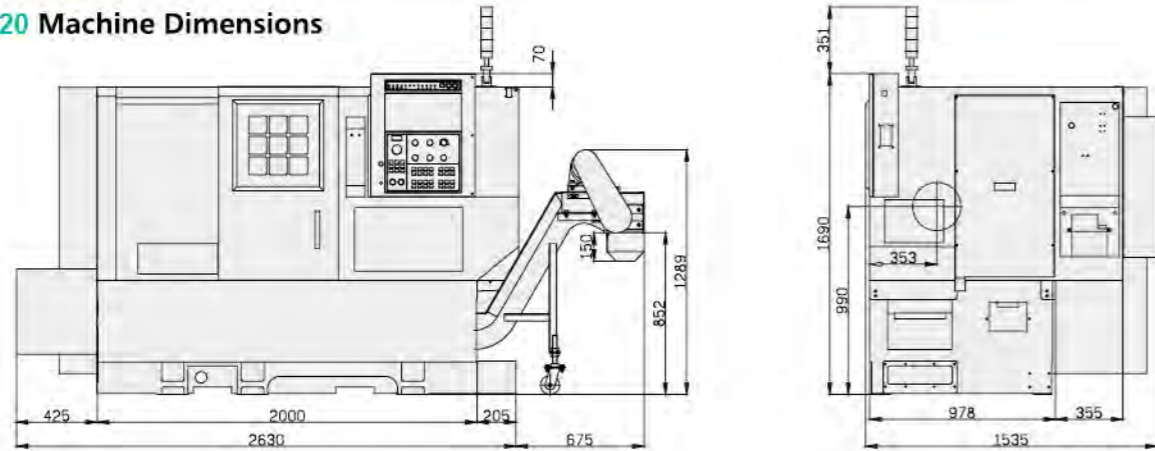


Supply Table

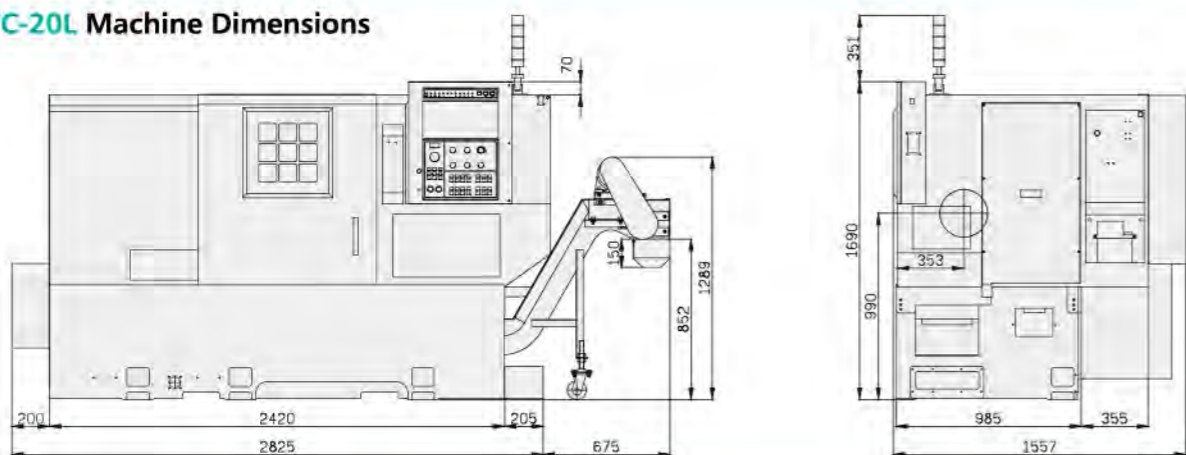
FTC-10 Machine Dimensions



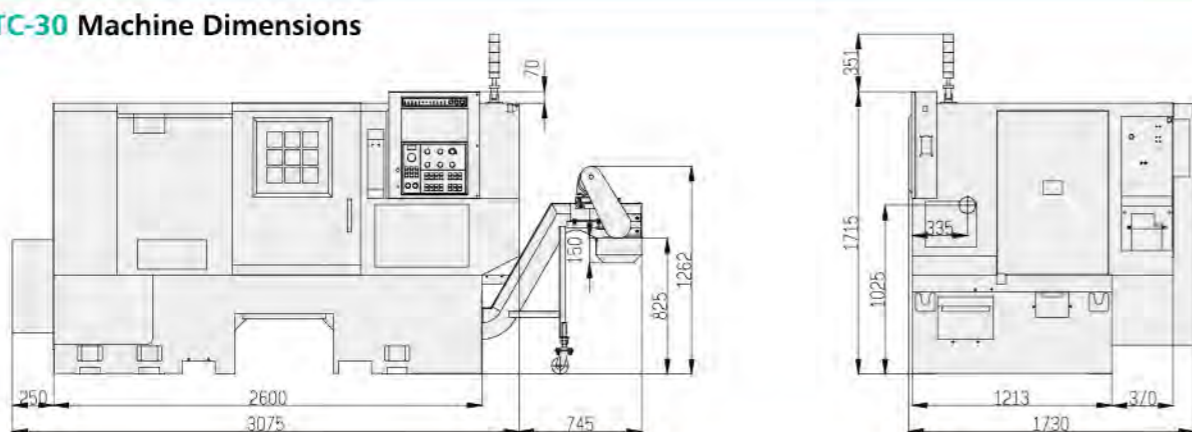
FTC-20 Machine Dimensions



FTC-20L Machine Dimensions



FTC-30 Machine Dimensions



FTC MACHINE SPECIFICATIONS

Model	Unit	FTC-10	FTC-20	FTC-20L	FTC-30
Swing Over Bed / Front Cover	mm	Ø510	Ø600	Ø600	Ø580
Standard Turning Diameter	mm	Ø180	Ø250		Ø310
Max. Turning Diameter	mm	Ø240	Ø350		Ø450
Max. Turning Length	mm	255	343	613	621
Hydraulic Power Chuck Diameter		6" (8")	8" (10")		10" (12")
Swing Over Saddle	mm	Ø240	Ø380		Ø440
X axis Travel	mm	120+20	175 + 25		225+25
Z axis Travel	mm	290	380	650	670
Rapid Traverse X / Z axis	m/min	24 / 24	24 / 24		20 / 20
Spindle Nose		A2-5	A2-6		A2-8
Spindle Speed	rpm	6,000	4,500		3,500
Spindle Bore Diameter	mm	Ø56	Ø62		Ø88
Through Hole Draw Tube	mm	Ø45	Ø52		Ø75
Spindle Bearing Diameter	mm	Ø90	Ø100		Ø130
Spindle Taper		MT#6	1:20		1:20
No. of Tools		10 T	8 T		8 T
Standard O.D. Tool Size	mm	□20	□25 (□20 for 12T)		□25
I.D. Tool Size (Max.)	mm	Ø25	Ø40		Ø40
Tailstock Quill Diameter	mm	Ø50	Ø65		Ø100
Tailstock Quill Stroke	mm	80	90		100
Tailstock Quill Taper		MT-3	MT-4		MT-4
Spindle Motor (30 min / Continuous)	kW	11 / 7.5	18.5 / 15		22 / 13
Servo Motor	kW	X=1.6 / Z=1.6	X=3.0 / Z=3.0	X=3.0 / Z=3.0	X=3.0 / Z=3.0
Coolant Capacity	liter	115	100	125	95
Floor Space	mm	2,005 x 1,317	2,780 x 1,535	2,825 x 1,557	3,075 x 1,730
Machine Weight	kg	2,500	3,550	3,850	5,080

* Specifications and design characteristics are subject to change without prior notice.



Standard Accessories

- * Boring tool holder
- * Boring bar socket
- * Coolant system
- * Face cutting holder
- * Hard jaws
- * Heat exchanger
- * Hydraulic system
- * Manual tailstock
- * Morse taper MT3 socket
- * Soft jaws
- * Through-hole hydraulic chuck
- * 3 color signal

Optional Accessories

- * Air blaster
- * Air conditioner
- * Automatic door
- * Bar feeder
- * Bar feeder interface (LNS system)
- * Chip conveyor / chip bucket
- * Extra hard / soft jaws
- * Gantry loader / workpiece supplier
- * High-pressure coolant pump
- * Oil skimmer
- * Parts catcher
- * Programmable tailstock (not available in FTC-10)
- * Tool setter
- * Transformer
- * Two-stage clamping force by M function
- * VDI turret