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# FTC *SERIES*

## CNC Turning Center

# FTC-10

## Main Features:

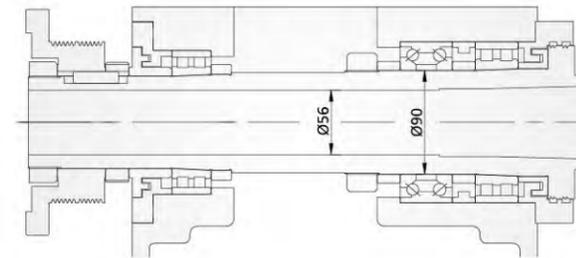
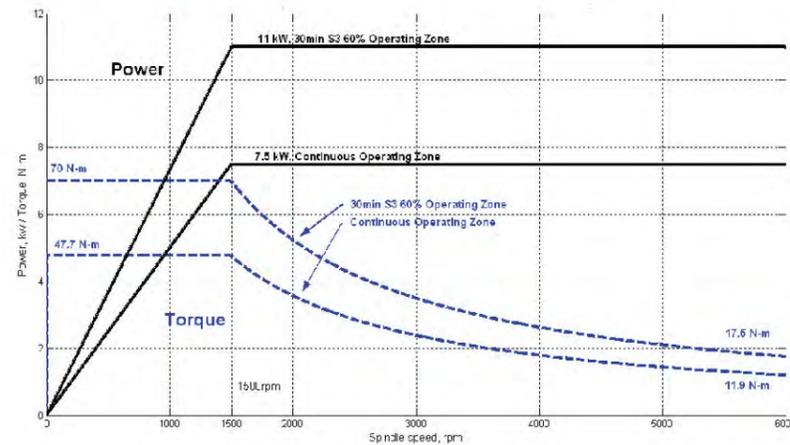
- Swing over bed  $\varnothing 520$  mm
- Standard turning diameter  $\varnothing 180$  mm
- Max. turning diameter  $\varnothing 240$  mm
- Max. turning length 255 mm



Automatic Tool Setter



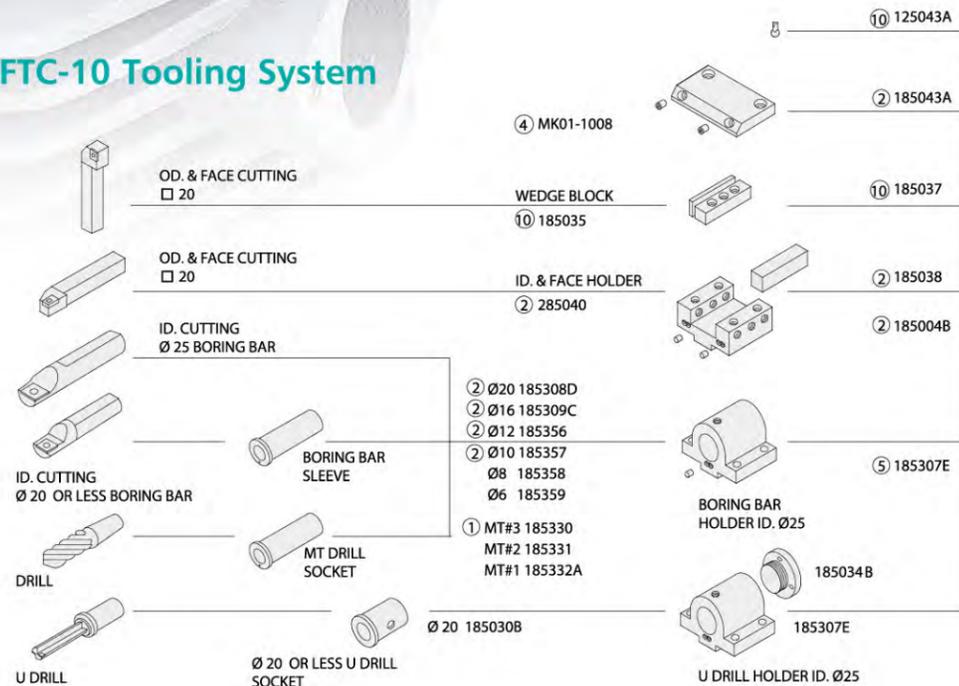
## Power/Torque characteristic of Fancu $\alpha 8/8000i$ for A2-5 Spindle



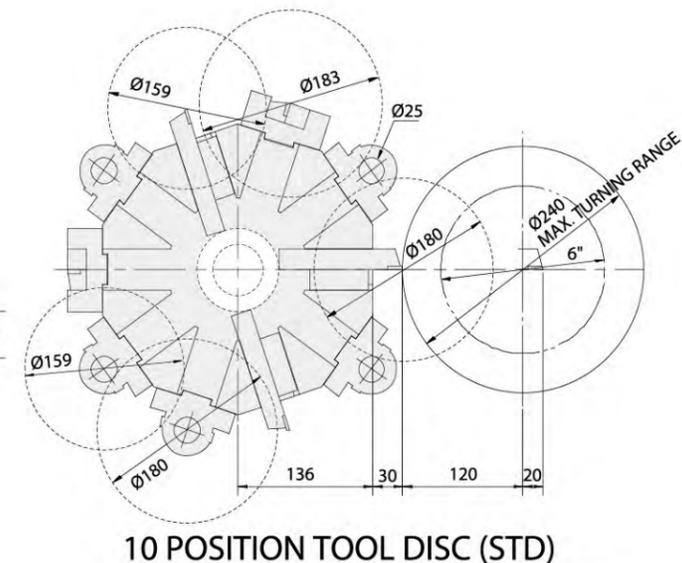
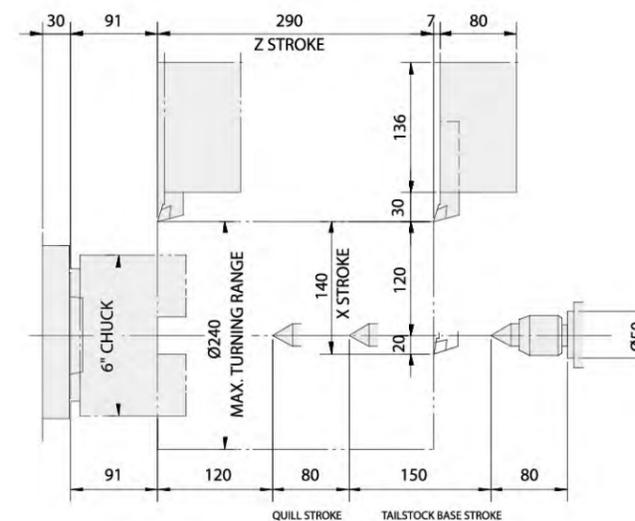
## HIGH PRECISION SPINDLE

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



## FTC-10 Working Capacity



# CNC Turning Center

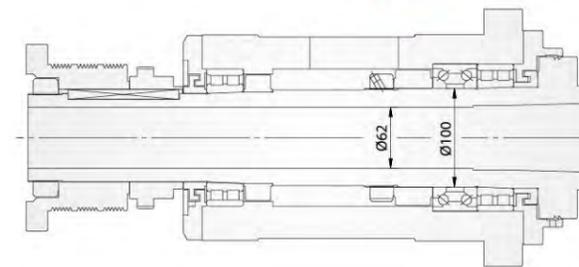
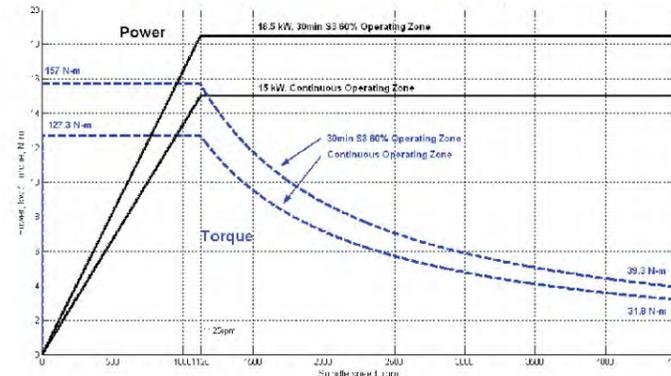
# FTC-20

## 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



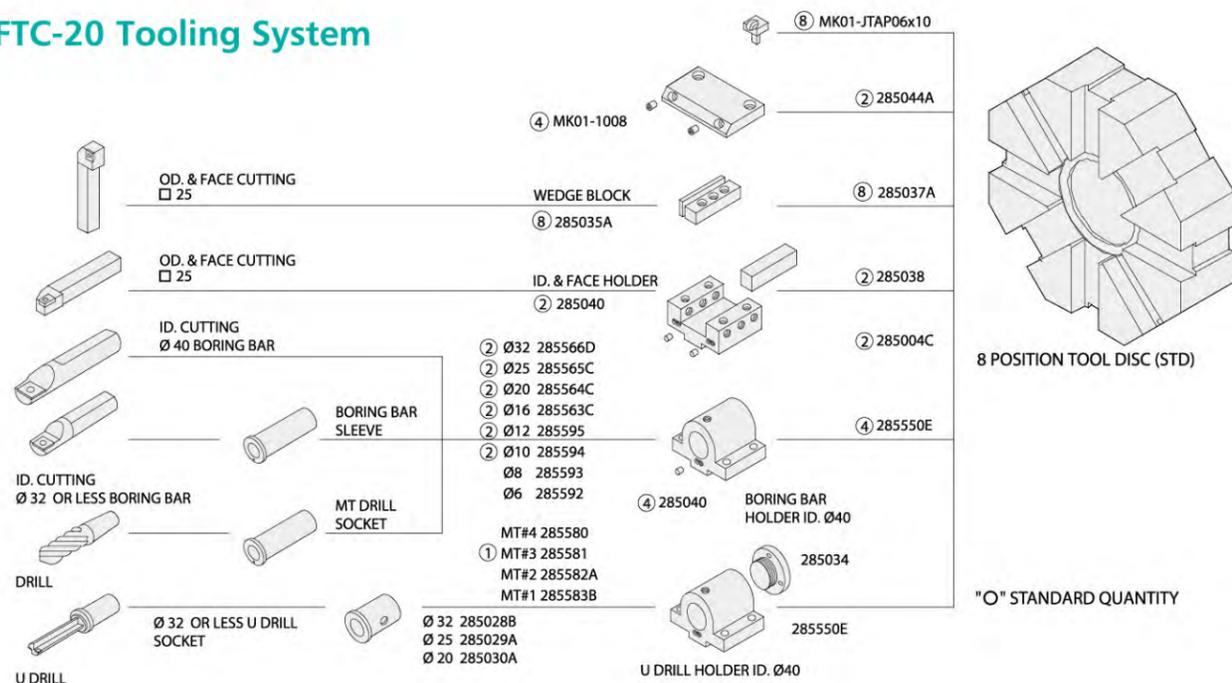
## HIGH PRECISION SPINDLE

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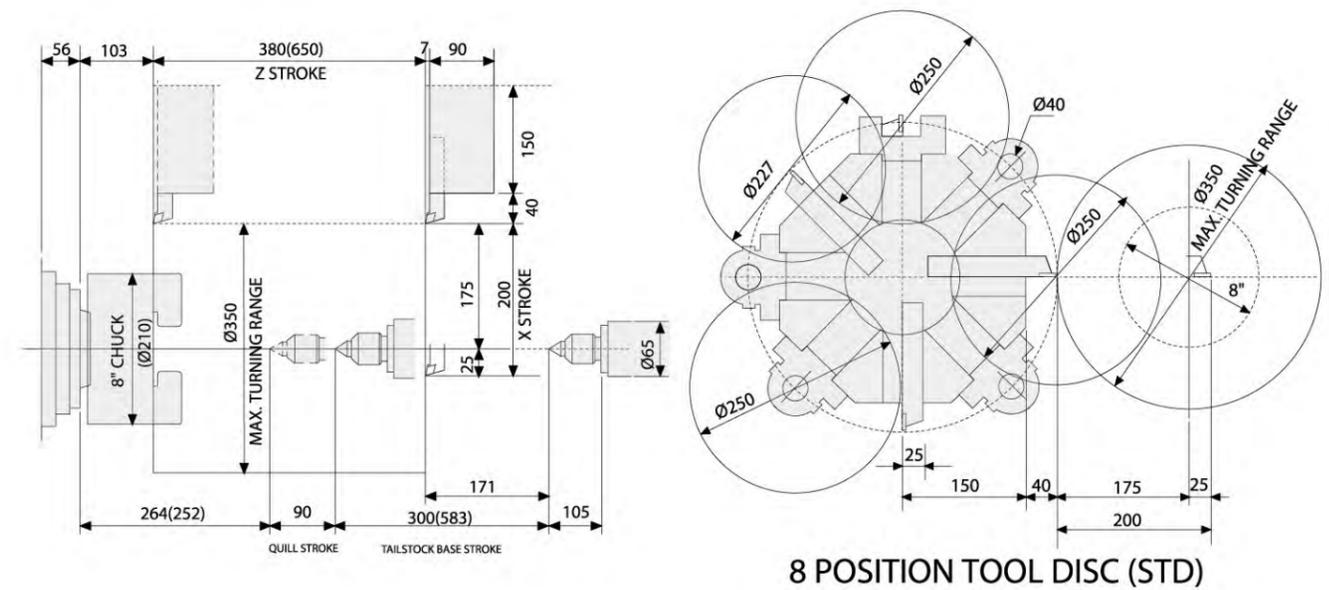


Automatic Loading / Unloading

## FTC-20 Tooling System



## FTC-20 Working Capacity



# FTC-30

## Main Features:

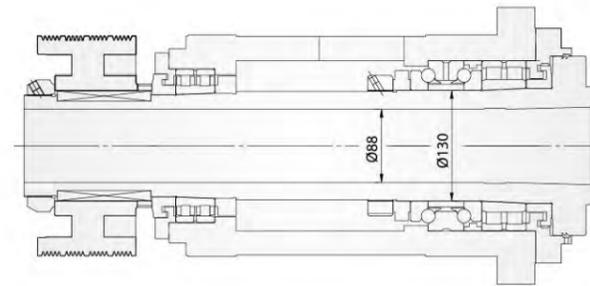
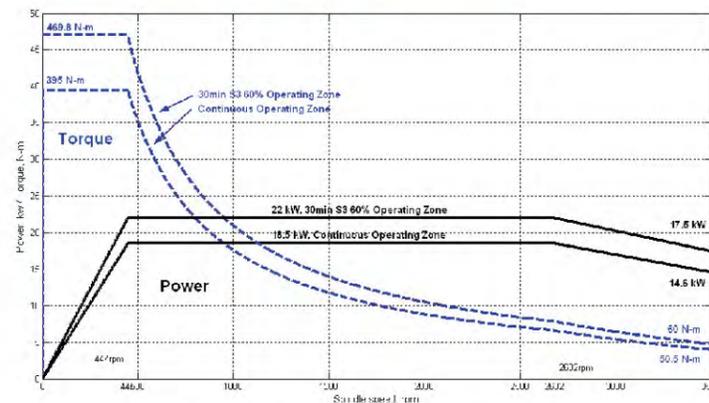
- Swing over bed  $\varnothing 580$  mm
- Standard turning diameter  $\varnothing 310$  mm
- Max. turning diameter  $\varnothing 450$  mm
- Max. turning length 621 mm



Heat Dissipation Headstock



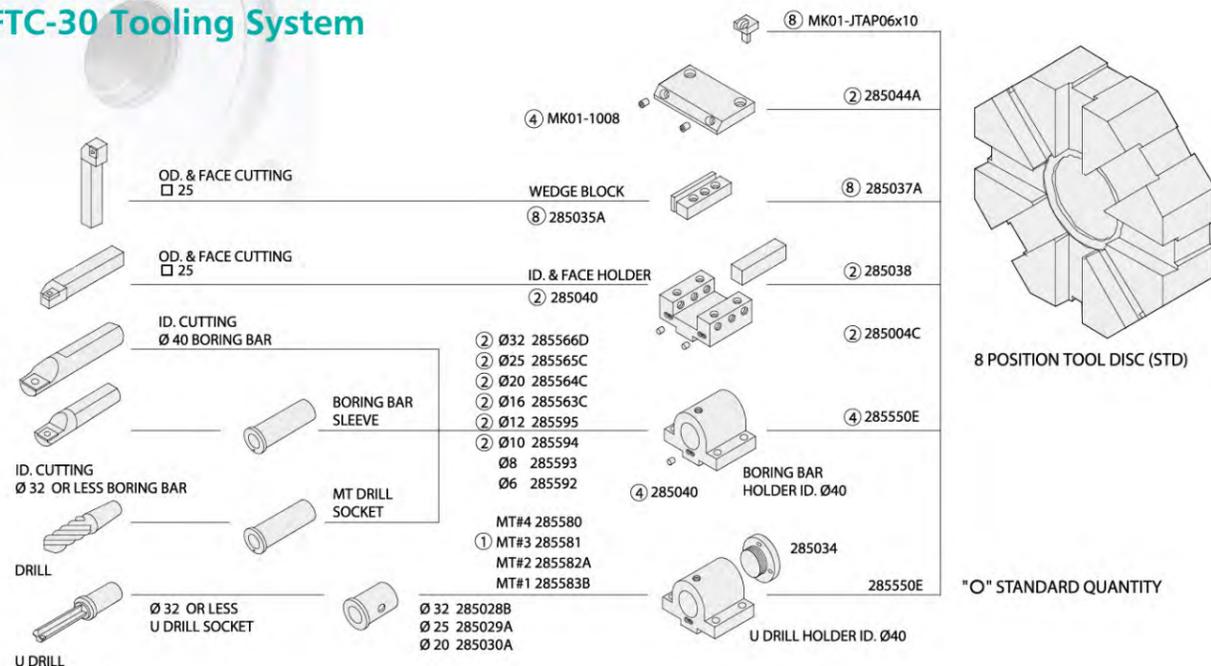
## Power/Torque characteristic of Fanuc ap40/6000 for A2-8 Spindle



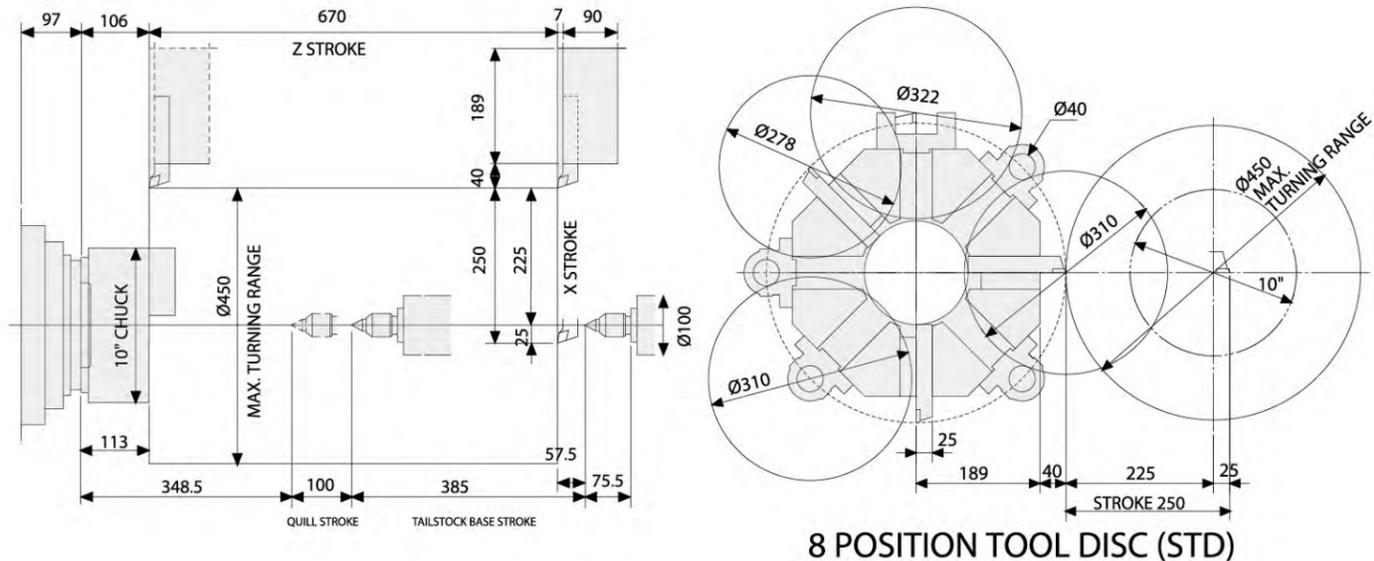
## HIGH PRECISION SPINDLE

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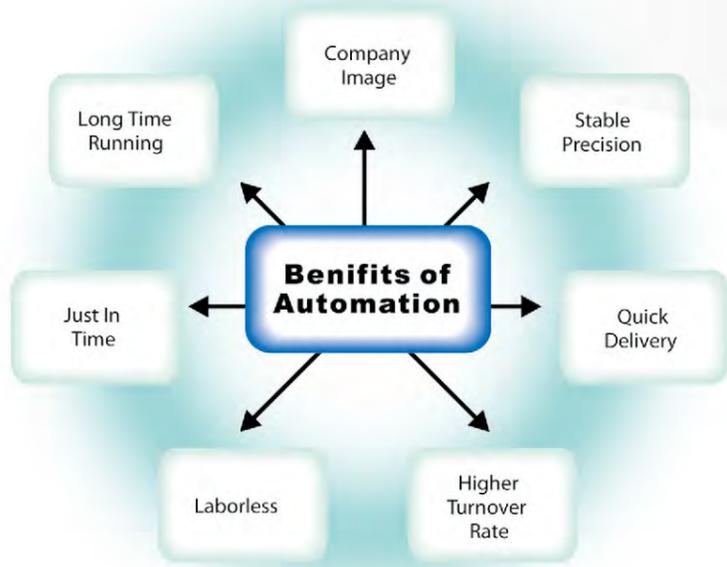
## FTC-30 Tooling System



## FTC-30 Working Capacity



# Unman Machining System



The well designed unman machining 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.



Parallel jaw



Automatic part-measuring



Adjustable quill movement



Hydraulic tailstock / The 4<sup>th</sup> axis



Part turnover attachment

## 16-Plate Supplier



MODEL	FW-150	FW-250
Plate No.	16	
Frame height	400 mm	
Material diameter	Ø25 ~ Ø150 mm	Ø50 ~ Ø150 mm
Material height	12 ~ 100 mm	
Plate loading	50 kg/ea	80 kg/ea
Transfer system for location A	Non-Screw Driven	
Transfer system for location B	Pneumatic	
Finished product recycle	Pneumatic	
Floor space	540 x 2,100 mm	900 x 3,000 mm
Air source	4-6 kgf/cm <sup>2</sup>	

A 20 - Plate supplier can be an option for FW-150

## 16-Plate Supplier



MODEL	FW-500	FW-600
Plate No.	13	
Frame size	490 x 220 mm	600 x 250 mm
Material diameter	Ø10 ~ Ø80 mm	Ø10 ~ Ø100 mm
Material height	12 ~ 100 mm	15 ~ 100 mm
Plate loading	60 kg/ea	100 kg/ea
Standard load	273 pcs	
Transfer system for location	Non Screw Driven	
Floor space	600 x 2,200 mm	900 x 3,100 mm
Air source	4-6 kgf/cm <sup>2</sup>	

A 17 or 19 - Plate supplier can be an option for FW-500

## 13-Plate Supplier



MODEL	FW-25	FW-40
Material diameter	Ø12 ~ Ø25 mm	Ø20 ~ Ø40 mm
Material height	80 ~ 300 mm	100 ~ 300 mm
Floor space	800 x 900 mm	
Air source	4-6 kgf/cm <sup>2</sup>	

Finished product recycle system  
• Design and specifications are subject to change without prior notice.



Product Transport Conveyor

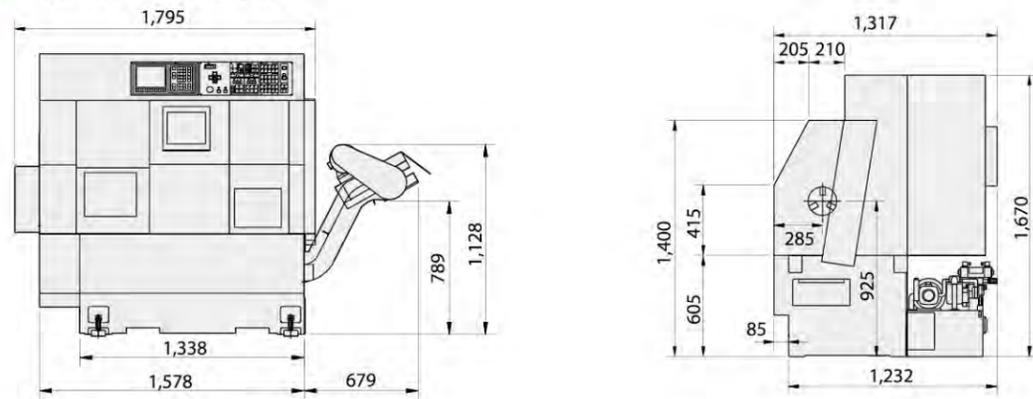


Jaw-Fix Tool / Soft Jaw

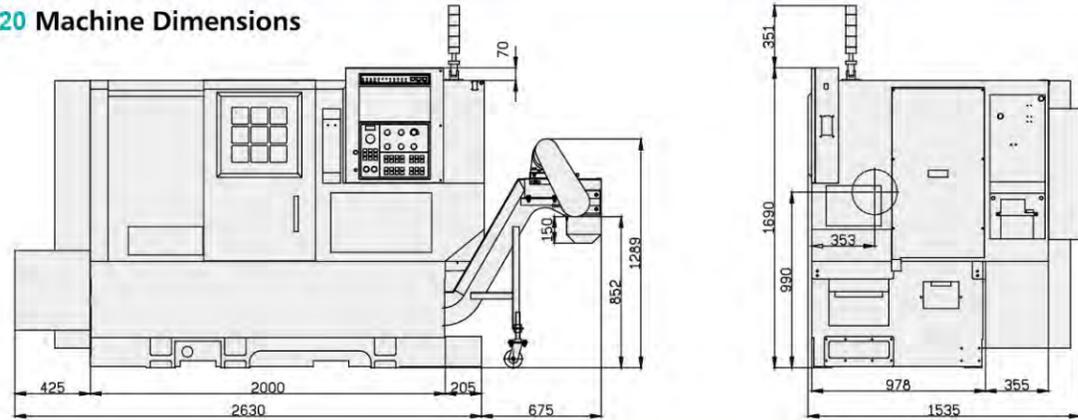


Supply Table

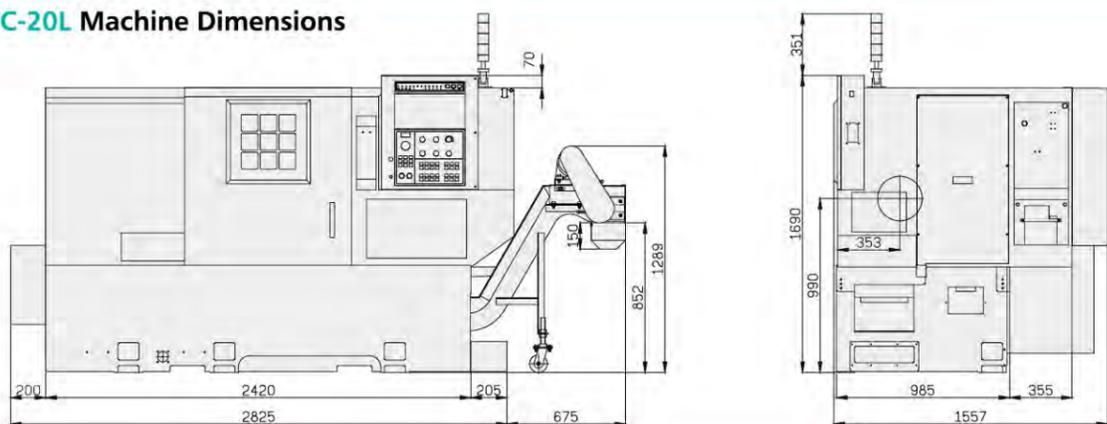
### FTC-10 Machine Dimensions



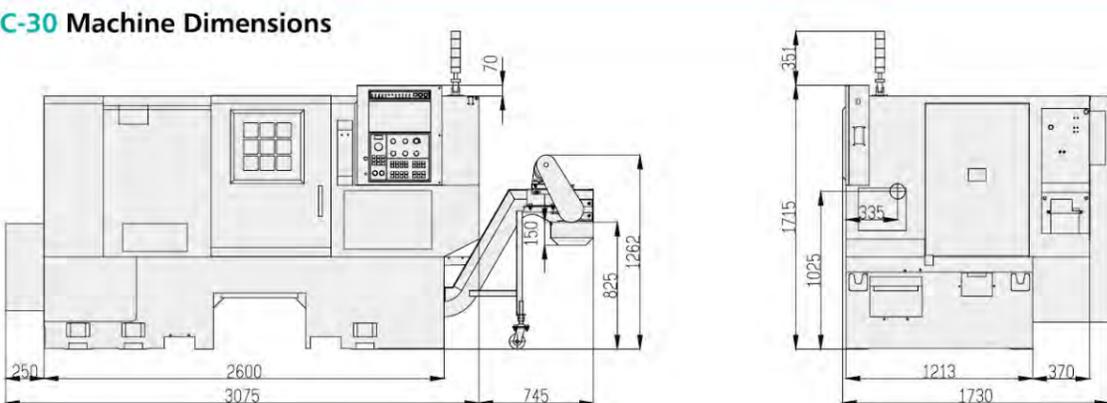
### FTC-20 Machine Dimensions



### 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	Ø520	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	Ø260	Ø400		Ø450
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	95	100	125	95
Floor Space	mm	1,795 x 1,317	2,630 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