



CNC Teach-style lathe C-Turn 650

51" x 67~244"



- All castings are made of high tensile Meehanite cast iron
- Heating treatment eliminates internal residual stress
- Wide bed and box ways are high frequency heat treated and precision ground to provide stability during high speed running and deep cuts
 - Spindle and gears are made of carburized and ground CR-MO alloy steel
 - Forced lubrication and oil bath is combined in the headstock, which prolongs machine life and avoids need for service
 - Three point support on the spindle with two taper roller bearings and one roller bearing to assure the accuracy & rigidity
- Gap bed on request
- High precision ball screw
- Heavy duty tailstock
- External spindle cooling system on request
- Double chuck system on request
- Metric threading

Standard configuration:

- ✓ Fagor 8055i/A TC Control
- ✓ Conversational graphic interface
- ✓ No need for previous knowledge of standard CNC programming or G-code background
- ✓ Electronic hand-wheels for manual operation with simple and easy DRO mode
- ✓ Constant Surface Speed for better finishes
- ✓ Graphic display of tool path
- ✓ Built in Tool Library for tool management
- ✓ Full range of automatic & profiling cycles
- ✓ Integrated PLC & ISO (G-code)
- ✓ RS-232 Port & DNC Channels
- ✓ Automatic lubrication system
- ✓ Center sleeve/Center
- ✓ Leveling pads and bolts
- ✓ Electrical handwheel (MPG)
- ✓ Automatic speed change
- ✓ Work light

Optional configuration:

- Siemens/Fanuc Control
- Electric servo toolpost (H4)
- Hydraulic turret (V8)
- Powerful turret (V8 / V12)
- Steady rest
- Follow rest
- Live center MT#6
- 4" bore (A2-11, 20-1500 rpm)
- 6" bore (A2-11, 10-800 rpm)

Specifications		C-Turn CNC 650					
		1700 51" x 67"	2200 51" x 87"	3200 51" x 126"	4200 51" x 165"	5200 51" x 205"	6200 51" x 244"
Swing over bed	mm	1300 (51")					
Swing over carriage	mm	900 (35")					
Center-to-center distance	mm	1700 (67")	2200 (87")	3200 (126")	4200 (165")	5200 (205")	6200 (244")
Spindle bore	mm	155 [opt. 230, 305, 410, 510] (6" [opt. 9, 12, 16, 20"])					
Spindle speed	rpm	6-750 [opt. 4-560, 2-270, 1.5-215, 1.2-155]					
Spindle nose		A2-11 [opt. A2-15, A2-20, A2-28]					
Travels	Z-axis	1700 (67")	2200 (87")	3200 (126")	4200 (165")	5200 (205")	6200 (244")
	X-axis	680 (27")					
Ball screw (Diameter X/Z)	mm	X: 40, Z: 80 (1.5, 3")					
Tailstock travel	mm	300 (12")					
Tailstock diameter	mm	165 (6")					
Taper tailstock		MT#6					
Spindle motor	kw	22/33 [opt. 28/42]					
Z-axis rapid travel	m/min	7 (275"/min)					
X-axis rapid travel	m/min	5 (197"/min)					
Weight	kg	12000 (26,460 lbs)	12800 (28,220 lbs)	14400 (31,750 lbs)	16000 (35,270 lbs)	17600 (38,800 lbs)	19200 (42,330 lbs)
Item No.		1610500	1610501	1610502	1610503	1610504	1610505

*The above specifications are subject to change without prior notice. No liability for printing mistakes. Machine may be shown with optional equipment.

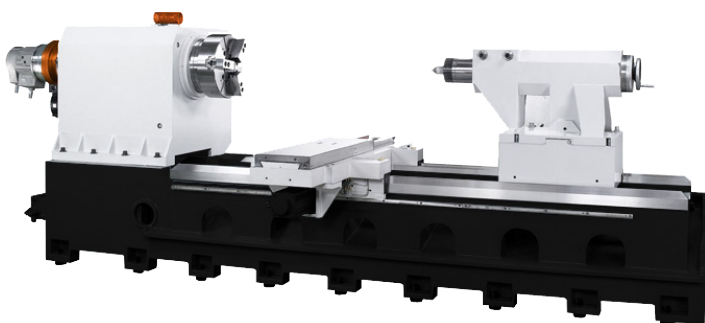


CNC Teach-style lathe C-Turn 420

33" x 63~201"



Fagor 8055i/A
TC Control



Unmatched quality and reliability with high accuracy and high performance. Optional accessories are available for various machine applications. These high performance CNC lathes are available with large spindle bore (6", 9", 12" or 14") and double chuck system.

Headstock

The headstock is manufactured from thick wall and heavily ribbed casting to provide a smooth and quiet turning machine. All gears and shafts are precisely hardened and ground for their best performance.

Specifications		C-Turn CNC 420					
		1600 33" x 63"	2100 33" x 83"	3100 33" x 122"	4100 33" x 161"	5100 33" x 201"	
Swing over bed	mm	840 (33")					
Swing over carriage	mm	570 (22")					
Center-to-center distance	mm	1600 (63")	2100 (83")	3100 (122")	4100 (161")	5100 (201")	
Spindle bore	mm	105 [opt. 153, 230, 305] (4" [opt. 6, 9, 12"])					
Spindle speed	rpm	20-1500 [opt. 10-800, 6-450, 5-350]					
Spindle nose		A2-11 [opt. A2-15, A2-20]					
Travels	Z-axis	mm	1500 (59")	2000 (79")	3000 (118")	4000 (157")	5000 (197")
	X-axis	mm	450 (18")				
Ball screw (Diameter X/Z)	mm	X: 28, Z: 50 (1, 2")					
Tailstock travel	mm	220 (9")					
Tailstock diameter	mm	105 (4")					
Taper tailstock		MT#5					
Spindle motor	kw	11.2 [opt. 14.9] (15 Hp [20 Hp])					
Z-axis rapid travel	m/min	7 (275"/min)					
X-axis rapid travel	m/min	5 (197"/min)					
Weight	kg	4500 (9,920 lbs)	5000 (11,020 lbs)	6000 (13,230 lbs)	7000 (15,430 lbs)	8000 (17,640 lbs)	
Item No.		1610506	1610507	1610508	1610509	1610510	

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Cutting

Turning
CNC • Manual

Milling

Drilling/Boring

Grinding

Sawing

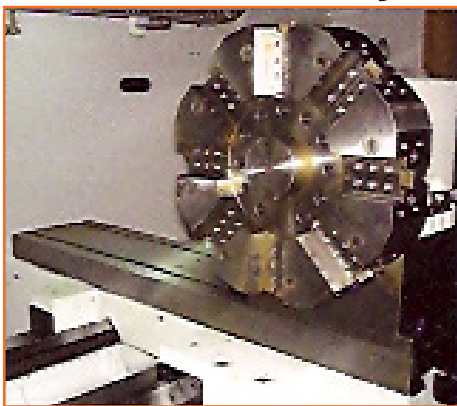
Fabricating



CNC Teach-style lathe

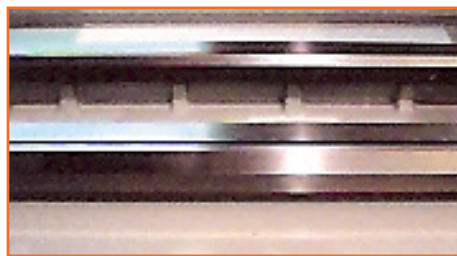
C-Turn 315 • 385 CNC

25x40" to 30x201"



ATC-turret

The optional automatic tool changing systems (H4, V8 or V12 Turret) provide high performance and high production with flexible and accurate tooling which is optimized to meet the most demanding job schedule.



Bed

The bed is made of high grade Meehanite cast iron with maximum stability to absorb cutting forces and dampen vibrations. The bedways are hardened and precision ground (HRC 55-60).

Specifications	C-Turn CNC 315				C-Turn CNC 385					
	1000 25" x 40"	1500 25" x 60"	2000 25" x 80"	1600 30" x 63"	2100 30" x 83"	3100 30" x 122"	4100 30" x 161"	5100 30" x 201"		
Swing over bed	mm 630 (25")				mm 770 (30")					
Swing over carriage	mm 400 (16")				mm 500 (20")					
Center-to-center distance	mm 1000 (40")	mm 1500 (60")	mm 2000 (80")	mm 1600 (63")	mm 2100 (83")	mm 3100 (122")	mm 4100 (161")	mm 5100 (201")		
Spindle bore	mm 85 [opt. 105, 153] (3" [opt. 4, 6"])				mm 105 [opt. 153] (4" [opt. 6"])					
Spindle speed	rpm 27-2250 [opt. 20-1500, 10-800]				rpm 20-1500 [opt. 10-800]					
Spindle nose	D1-8 [opt. A2-11]				A2-11					
Travels	Z-axis	mm 810 (32")	mm 1310 (52")	mm 1810 (71")	mm 1500 (59")	mm 2000 (79")	mm 3000 (118")	mm 4000 (157")	mm 5000 (197")	
	X-axis	mm 350 (14")				mm 450 (18")				
Ball screw (Diameter X/Z)	mm X: 25, Z: 40 (1, 1.6")					mm X: 28, Z: 50 (1, 2")				
Tailstock travel	mm 170 (6.7")				mm 220 (9")					
Tailstock diameter	mm 75 (3")				mm 105 (4")					
Taper tailstock	MT#5				MT#5					
Spindle motor	kw 7.5 [opt. 11.2] (10 Hp [opt. 15 Hp])				kw 11.2 [opt. 14.9] (15 Hp [20 Hp])					
Z-axis rapid travel	m/min 7 (275"/min)				m/min 7 (275"/min)					
X-axis rapid travel	m/min 5 (197"/min)				m/min 5 (197"/min)					
Weight	kg 3200		kg 3500		kg 3800		kg 4300		kg 4800	
	(7,050 lbs)		(7,720 lbs)		(8,380 lbs)		(9,480 lbs)		(10,580 lbs)	
Item No.	1610511	1610512	1610513	1610514	1610515	1610516	1610517	1610518		

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CNC Teach-style lathe

C-Turn 230 • 270 CNC

18x40" to 21x80"



Automatic lubrication

All slide ways and drive elements are automatically lubricated. The undersides of the saddle as well as cross slide are coated with Turcite-B to ensure accuracy and long life.

- Easy manual turning of radial, chamfering, tapering, facing and grooving
- Tool radius & geometry compensation
- Internal digital readout
- 8 bit bus, 32K RAM
- Teach-in mode
- Semiautomatic, automatic (Cycle) and part program modes
- Automatic acceleration/deceleration
- Rapid travels
- Self diagnostic routines
- Automatic home searching

Large spindle bore

The main spindle is precision machined and ground from large one-piece forging. Large spindle bore sizes (6", 9", 12", 14") are available as options with double chuck system.



Specifications	C-Turn CNC 230			C-Turn CNC 270				
	1000 18" x 40"	1500 18" x 60"	2000 18" x 80"	1000 21" x 40"	1500 21" x 60"	2000 21" x 80"		
Swing over bed	mm	460 (18")			540 (21")			
Swing over carriage	mm	230 (9")			310 (12")			
Center-to-center distance	mm	1000 (40")	1500 (60")	2000 (80")	1000 (40")	1500 (60")	2000 (80")	
Spindle bore	mm	56 (2")			85 [opt. 105] (3" [opt. 4"])			
Spindle speed	rpm	33-3100			27-2250 [opt. 20-1500]			
Spindle nose		D1-6			D1-8 [opt. A2-11]			
Travels	Z-axis	mm	810 (32")	1310 (52")	1810 (71")	810 (32")	1310 (52")	1810 (71")
	X-axis	mm	280 (11")			350 (14")		
Ball screw (Diameter X/Z)	mm	X: 25, Z: 40 (1, 1.6")			X: 25, Z: 40 (1, 1.6")			
Tailstock travel	mm	170 (6.7")			170 (6.7")			
Tailstock diameter	mm	75 (3")			75 (3")			
Taper tailstock		MT#5			MT#5			
Spindle motor	kw	5.6 [opt. 7.5] (7.5 Hp [opt. 10 Hp])			7.5 [opt. 11.2] (10 Hp [opt. 15 Hp])			
Z-axis rapid travel	m/min	7 (275"/min)			7 (275"/min)			
X-axis rapid travel	m/min	5 (197"/min)			5 (197"/min)			
Weight	kg	2900 (6,390 lbs)	3200 (7,050 lbs)	3500 (7,720 lbs)	3100 (6,830 lbs)	3400 (7,500 lbs)	3700 (8,160 lbs)	
Item No.		1610519	1610520	1610521	1610522	1610523	1610524	

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