



CNC teach-style lathe C-Turn CNC 650

51x67" to 51x244"

- 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")						
Distance between centers	mm	1700 (67")	2200 (87")	3200 (126")	4200 (165")	5200 (205")	6200 (244")	
Spindle bore	mm	Ø155 (6") [opt. Ø230 (9"), Ø305 (12"), Ø410 (16"), Ø510 (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	mm	1700 (67")	2200 (87")	3200 (126")	4200 (165")	5200 (205")	6200 (244")
	X-axis	mm	680 (27")					
Ball screw (Diameter X/Z)	mm	X: 40 (1.5), Z: 80 (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.

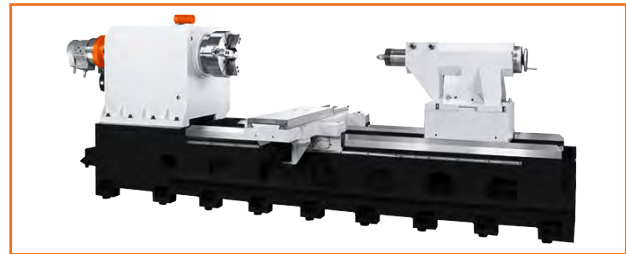


CNC teach-style lathe C-Turn CNC 420

33x63" to 33x201"



Fagor 8055i/A
TC Control



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.

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.

Specifications		C-Turn CNC 420					
		1600	2100	3100	4100	5100	
		33" x 63"	33" x 83"	33" x 122"	33" x 161"	33" x 201"	
Swing over bed	mm	840 (33")					
Swing over carriage	mm	570 (22")					
Distance between centers	mm	1600 (63")	2100 (83")	3100 (122")	4100 (161")	5100 (201")	
Spindle bore	mm	Ø105 (4") [opt. Ø153 (6"), Ø230 (9"), Ø305 (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 (1), Z: 50 (2")					
Tailstock travel	mm	220 (9")					
Tailstock diameter	mm	105 (4")					
Taper tailstock		MT 5					
Spindle motor	kw	11.2 (15 Hp) [opt. 14.9 (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	

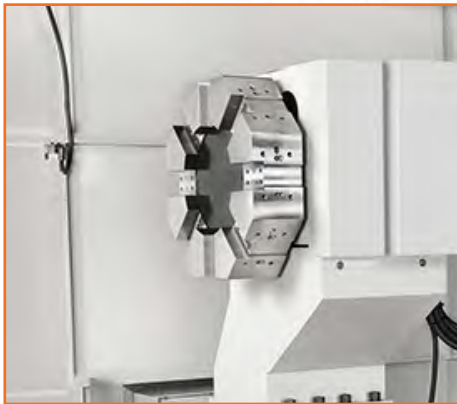
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CNC teach-style lathe

C-Turn CNC 315 • 385

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	1500	2000	1600	2100	3100	4100	5100	
		25" x 40"	25" x 60"	25" x 80"	30" x 63"	30" x 83"	30" x 122"	30" x 161"	30" x 201"	
Swing over bed	mm	630 (25")				770 (30")				
Swing over carriage	mm	400 (16")				500 (20")				
Distance between centers	mm	1000 (40")	1500 (60")	2000 (80")	1600 (63")	2100 (83")	3100 (122")	4100 (161")	5100 (201")	
Spindle bore	mm	Ø85 (3") [opt. Ø105 (4"), Ø153 (6")]				Ø105 (4") [opt. Ø153 (6")]				
Spindle speed	rpm	27-2250 [opt. 20-1500, 10-800]				20-1500 [opt. 10-800]				
Spindle nose		D1-8 [opt. A2-11]				A2-11				
Travels	Z-axis	mm	810 (32")	1310 (52")	1810 (71")	1500 (59")	2000 (79")	3000 (118")	4000 (157")	5000 (197")
	X-axis	mm	350 (14")				450 (18")			
Ball screw (Diameter X/Z)	mm	X: 25, Z: 40 (1, 1.6")				X: 28, Z: 50 (1, 2")				
Tailstock travel	mm	170 (6.7")				220 (9")				
Tailstock diameter	mm	75 (3")				105 (4")				
Taper tailstock		MT 5				MT 5				
Spindle motor	kw	7.5 (10 Hp) [opt. 11.2 (15 Hp)]				11.2 (15 Hp) [opt. 14.9 (20 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	3200 (7,050 lbs)	3500 (7,720 lbs)	3800 (8,380 lbs)	4300 (9,480 lbs)	4800 (10,580 lbs)	5800 (12,790 lbs)	6800 (14,990 lbs)	7800 (17,200 lbs)	
Item No.		1610511	1610512	1610513	1610514	1610515	1610516	1610517	1610518	

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CNC teach-style lathe

C-Turn CNC 230 • 270

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
- 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")			
Distance between centers	mm	1000 (40")	1500 (60")	2000 (80")	1000 (40")	1500 (60")	2000 (80")	
Spindle bore	mm		Ø56 (2")		Ø85 (3") [opt. Ø105 (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 (1), Z: 40 (1.6")		X: 25 (1), Z: 40 (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 (7.5 Hp) [opt. 7.5 (10 Hp)]		7.5 (10 Hp) [opt. 11.2 (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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