



CNC High performance slant bed lathe

F-Turn CNC

25x32" to 37x124"



- Heavy-duty spindle and 2-step ZF-gearbox (F-turn 330 CNC)
- 3-step gearbox (F-turn 485 CNC)
- Heavy-duty hydraulic-driven 12-pos. tool turret ensuring high positioning accuracy (F-turn 485 CNC)
- Heavy-duty hydraulic-driven 10-pos. tool turret ensuring high positioning accuracy (F-turn 330 CNC)
- 12-pos. hydraulic tool turret with live tools available (F-turn 330 CNC)
- Hydraulic pump to control 3-jaw chuck and tool turret operation
- F-turn 330 CNC machines can be equipped with steady rest for machining of long parts
- Spindle oil cooling - for efficient heat removal and spindle and gearbox temperature control (F-turn 485 CNC)
- Programmable hydraulic tailstock motion driven by servodrive. The system is controlled by CNC M-codes (F-turn 485 CNC)

Specifications	F-Turn CNC								
	330/820	330/1560	330/2340	330/3100	485/1200	485/1700	485/2200	485/3200	
	25" x 32"	25" x 61"	25" x 92"	25" x 122"	37" x 46"	37" x 66"	37" x 85"	37" x 124"	
Swing over bed	mm	Ø660 (25.75")				Ø970 (37.75")			
Swing over carriage	mm	Ø480 (18.5")				Ø720 (28")			
Max. workpiece diameter	mm	Ø500 (19.5")				Ø850 (33")			
Distance between centers	mm	820 (32.28")	1560 (61.41")	2340 (92.13")	3100 (122")	1200 (46.5")	1700 (66")	2200 (85.5")	3200 (124.5")
Chuck mount		A2-8 [opt. A2-11]				A2-11 [opt. A2-15, A2-20]			
Spindle bore diameter	mm	Ø102 [opt. Ø165] (3.95" [opt. 6.5"])				Ø155 (6") [opt. Ø228 (8.8"), Ø305 (11.8"), Ø355 (14")]			
Max. bar diameter	mm	Ø89 [opt. Ø116] (3.4" [opt. 4.5"])				Ø115 [opt. Ø135, Ø205] (4.5" [opt. 5.3, 8"])			
Speeds	rpm	625-2500				2-1500			
Number of spindle speeds	#	2 steps (ZF-gears)				3 steps			
Max. speed of live tool **	rpm	0-2000				0-2000			
Chuck diameter	mm	Ø300 [opt. Ø380] (11.7 [opt. 14.75"])				Ø380 [opt. Ø450, Ø610, Ø810] (14.75 [opt. 17.5, 23.75, 31.5"])			
TURRET									
Number of positions	#	10 [opt. 12]				12			
Toolholder dimensions	mm	32x32 [opt. 25x25] (1.25x1.25" [opt. 1x1"])				32x32 (1.25x1.25")			
Axial tool post dimensions	mm	Ø50 (2")				Ø50 (2")			
TRAVELS									
Travel: X axis	mm	280 (10.75")				450 (425 + 25) (17.5+1")			
Travel: Z axis	mm	885 (34.5")	1630 (63.5")	2400 (94.5")	3165 (124.6")	1200 (46.5")	1700 (66")	2200 (85.5")	3200 (124.5")

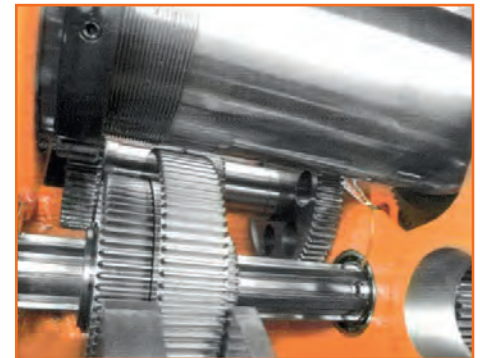
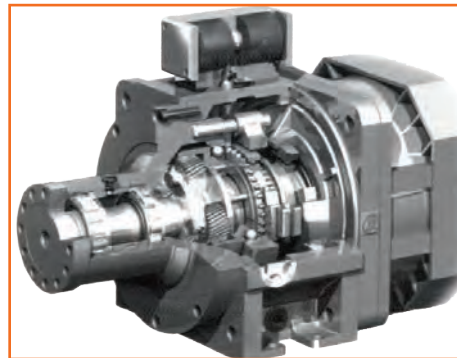
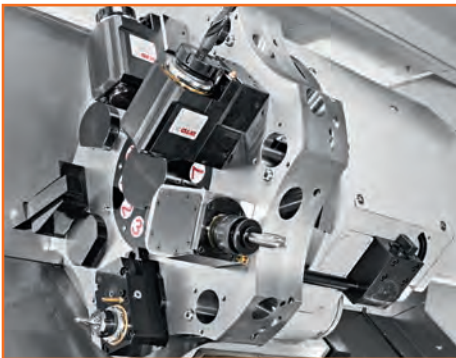
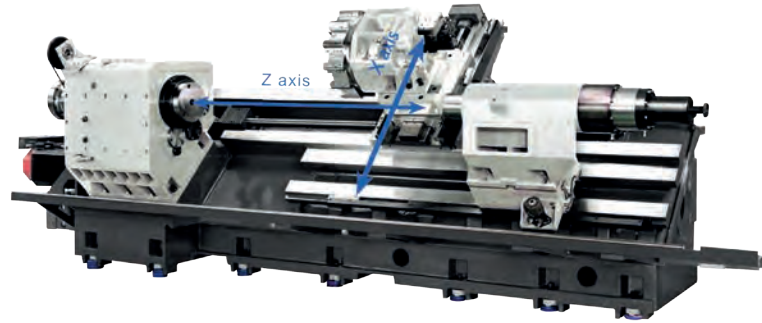
*The above specifications are subject to change without prior notice. No liability for printing mistakes. Machine may be shown with optional equipment. — ** Live tool optional

Optional configuration

- Tailstock with programmable motion (F-Turn 330 CNC)
- Automatic tool setting device
- C-axis with live tools
- Hydraulic chuck
- Mechanical chuck (F-Turn 485 CNC)
- Hydraulic 12-position turret (F-Turn 330 CNC)

Standard configuration

- Fanuc CNC control
- ZF gearbox (F-Turn 330 CNC)
- Manual tailstock (F-Turn 330 CNC)
- Tailstock with programmable motion (F-Turn 485 CNC)
- Work light
- Air cooler for electric cabinet
- Hydraulic 10-position turret (F-Turn 330 CNC)
- Hydraulic 12-position turret (F-Turn 485 CNC)
- Spindle oil cooling (F-Turn 485 CNC)
- Coolant system, 3 bar (44 psi)
- Chip conveyor
- Three-color warning light
- Automatic lubrication
- Tool kit
- Operation manual



VDI 50 power turret (Option)

ZF gearbox (F-Turn 330 Series)

3-step gearbox (F-Turn 485 Series)

Specifications	F-Turn CNC								
	330/820	330/1560	330/2340	330/3100	485/1200	485/1700	485/2200	485/3200	
	25" x 32"	25" x 61"	25" x 92"	25" x 122"	37" x 46"	37" x 66"	37" x 85"	37" x 124"	
Rapid traverse – X axis	m/min	12 (468"/min)				12 (468"/min)			
Rapid traverse – Z axis	m/min	15 (585"/min)				15 (585"/min)			
Cutting feed rates	mm/min	0.001–500 (0.000039–19.68"/min)				0.001–500 (0.000039–19.68"/min)			
Motor spindle power	kW	22/26 (30/35 Hp)				30/37 (40/50 Hp)			
Servo X-axis drive	kW	4 (5.5 Hp)				4 (5.5 Hp)			
Servo Z-axis drive	kW	4 (5.5 Hp)				4 (5.5 Hp)			
Hydraulic system motor	kW	2.2 (3 Hp)				3.75 (5 Hp)			
Tailstock (Type)		manual [opt. programmable]				programmable			
Tailstock travel	mm	780 (30")	1540 (60")	2300 (90")	3060 (120")	850 (33")	1450 (56.5")	1950 (76")	2950 (115")
Tailstock quill travel	mm	100 (3.9")				200 (7.8")			
Tailstock quill diameter	mm	Ø110 (4.3")				Ø200 (7.8")			
Tailstock quill taper		MT 5				MT 6			
Hydraulic system capacity	l	80 (21 gal)				80 (21 gal)			
Coolant tank	l	140 (36 gal)	200 (52 gal)	260 (68 gal)	320 (82 gal)	230 (60 gal)	265 (70 gal)	295 (78 gal)	360 (95 gal)
DIMENSIONS									
Dimensions (L)	mm	5300 (208")	6060 (239")	6820 (269")	7590 (299")	6160 (240")	6660 (260")	7160 (280")	8160 (319")
Dimensions (W/H)	mm	2100x2235 (83x88")				2230x2445 (87x96")			
Weight	kg	8870 (19,514 lbs)	11300 (24,860 lbs)	13700 (30,140 lbs)	16000 (35,200 lbs)	14200 (31,240 lbs)	14950 (32,890 lbs)	15700 (34,540 lbs)	17200 (37,840 lbs)
Item No.		1630091	1630092	1630170	1630171	1630093	1630094	1630095	1630096

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