

CNC Big Bore Lathes



BL-Series Heavy Duty Lathes

FEMCO CNC Big Bore Lathes

BL975/810/710 Features

- FANUC Oi-TC Control system
- H4 or (V8 hydraulic turret optional)
- Flat bed is one-piece construction
- 4 speed gear box with 50/60 HP (BL-975)
- 2 speed gear box 25/30 HP (BL-710/810)



V8 Hydraulic Turret (optional)

- The hydraulic turret can be mounted with a cutting tools.
- Bi-directional, random tool selection provides fast tool change.



H4 Hydraulic Turret (standard)

- The hydraulic turret can be mounted with 4 cutting tools, allowing for turning, boring and end face cutting operations.

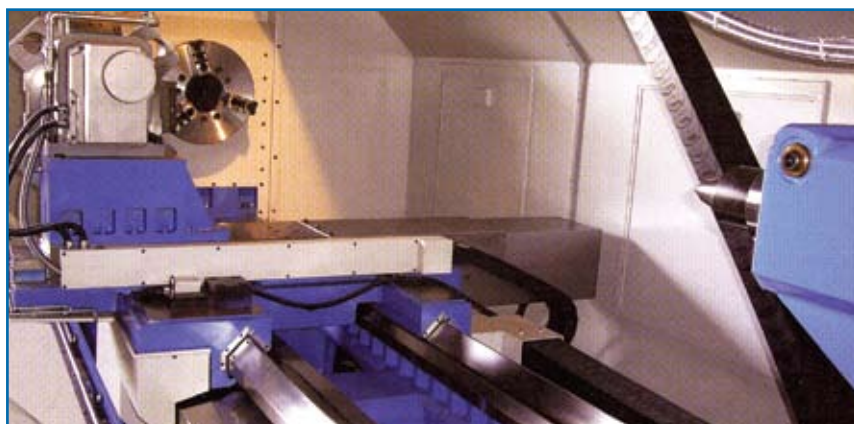
Power Turret (with live tools optional)

- The power turret can be mounted with rotating tools. Tool change is fast and convenient.
- Featuring powerful drilling, tapping and milling functions.



"I" Shaped Slideway

- The specially designed "I" shaped slideway greatly increases contact area of slideway. This feature exhibits extra high stability during heavy cutting.



Double "V" Slideway on Z-axis

- The bedways employ double "V" slideways combined with extra wide span between slideways.
- This assures high stability. In addition outstanding machine rigidity is assured especially when performing internal machining, boring and heavy external machining.

Standard Features

- Fanuc Oi-TC Control, Motors and Drives
- Splash Guard/Enclosure
- 4 Position Hydraulic Turret
- Chip Conveyor
- Auto Lube System
- Coolant System
- Work Lamp
- Manuals
- Tool Box
- 1 Year Machine Warranty
- 2 Year Fanuc Warranty

FEMCO Machine Specifications BL-710-1000-6", 2000-9"

Control		Fanuc Oi-TC	
Machine Capacity		6"	9"
Swing Max.	Inch	44.88"	
Swing over cross slide	Inch	27.95"	
Machining length Max.	Inch	39.37"	78.74"
Travel X axis	Inch	18.9"	
Travel Z axis	Inch	39.37"	78.74"
Rapid X and Z axis	Inches/ Minute	314" per Minute	
Feedrate Max. X and Z axis	Inches/ Minute	196" per Minute	
Spindle			
Spindle nose	ISO	A2-11	A2-15
Spindle bore diameter	Inch	6.0"	9.0"
Spindle gearbox	Range	2 Range Gearbox	
Spindle speed Max.	RPM	1000 RPM	450 RPM
Spindle motor output	HP	25/30 HP	
4 position Square Turret			
Square Tool Shank	Inch	1.25"x1.25"	
Boring Bar Max.Diameter	Inch	2.5"	
8 position Turret			
Square Tool Shank	Inch	1.25"x1.25"	
Boring Bar Max.Diameter	Inch	2.5"	
Tailstock			
Tailstock movement type	Inch	Manual	
Quill stroke	Inch	5.9"	
Quill diameter	Inch	4.7"	
Quill inside taper	MT.	6# Morse Taper	
Bearing Type Quill		(Optional)	
Machine Miscellaneous			
Bed Width	Inch	26"	
Cross Slide Width	Inch	13.7"	
Z Axis: Bed Ways are Box and Vee for (Better Accuracy)		(3 Vee Guide way) 2 for Carriage, 1 for Tailstock	
X Axis Cross Slide: Box Ways for Higher Rigidity (not dovetail)	Inch	13.7" wide	
Servo Motor X axis		Fanuc alpha 12/2000i	
Servo Motor Z axis		Fanuc alpha 22/2000i	
Thrust X axis		2,686lbs / 5,372lbs of Thrust	
Thrust Z axis		2,954 lbs / 5,909 lbs of Thrust	
Ball Screw X axis		1.57" Diameter X .2362" Pitch	
Ball Screw Z axis		2.48" Diameter X .3937" Pitch	
Ball Screw Thrust Bearings X axis		NSK 30TAC62APN	
Ball Screw Thrust Bearings Z axis		NSK 45TAC100AD13DPN7	
Cabinet Heat Exchanger		Kakung EA-5AR ISO	
Main Hydraulic Unit		Yuken (Japan)	
Solenoid Valves		Yuken (Japan)	
Coolant Pump		1 hp (Taiwan)	
Air Requirement		90 P.S.I.	
Electric Requirement		40 KVA	
Machine L*W*H approx.	Inch	185"x87"x81"	224"x87"x81"
Machine weight approx.	Pounds	17,637 lbs.	19,842 lbs.

Specifications are subject to change without notice

FEMCO Machine Specifications BL-810-1000-6", 2000-9"

Control		Fanuc Oi-TC	
Machine Capacity		6"	9"
Swing Max.	Inch	48.82"	
Swing over cross slide	Inch	31.89"	
Machining length Max.	Inch	39.37"	78.74"
Travel X axis	Inch	18.89"	
Travel Z axis	Inch	39.37"	78.74"
Rapid X and Z axis	Inches/ Minute	315" per Minute	
Feedrate Max. X and Z axis	Inches/ Minute	196" per Minute	
Spindle			
Spindle nose	ISO	A2-11	A2-15
Spindle bore diameter	Inch	6.0"	9.0"
Spindle gearbox	Range	2 Range Gearbox	
Spindle speed Max.	RPM	1000 RPM	450 RPM
Spindle motor output	HP	25/30 HP	
4 position Square Turret			
(Standard)			
Square Tool Shank	Inch	1.25"x1.25"	
Boring Bar Max.Diameter	Inch	2.5"	
8 position Turret			
(Optional)			
Square Tool Shank	Inch	1.25"x1.25"	
Boring Bar Max.Diameter	Inch	2.5"	
Tailstock			
Tailstock movement type	Inch	Manual	
Quill stroke	Inch	5.9"	
Quill diameter	Inch	4.7"	
Quill inside taper	MT.	6# Morse Taper	
Bearing Type Quill		(Optional)	
Machine Miscellaneous			
Bed Width	Inch	26"	
Cross Slide Width	Inch	13.7"	
Z Axis: Bed Ways are Box and Vee for (Better Accuracy)		(3 Vee Guide way) 2 for Carriage, 1 for Tailstock	
X Axis Cross Slide: Box Ways for Higher Rigidity (not dovetail)	Inch	13.7" wide cross slide	
Servo Motor X axis		Fanuc alpha 12/2000i	
Servo Motor Z axis		Fanuc alpha 22/2000i	
Thrust X axis		2,686lbs / 5,372lbs of Thrust	
Thrust Z axis		2,954 lbs / 5,909 lbs of Thrust	
Ball Screw X axis		1.57" Diameter X .2362" Pitch	
Ball Screw Z axis		2.48" Diameter X .3937" Pitch	
Ball Screw Thrust Bearings X axis		NSK 30TAC62APN	
Ball Screw Thrust Bearings Z axis		NSK 45TAC100AD13DPN7	
Cabinet Heat Exchanger		Kakung EA-5AR ISO	
Main Hydraulic Unit		Yuken (Japan)	
Solenoid Valves		Yuken (Japan)	
Coolant Pump		1 hp (Taiwan)	
Air Requirement		90 PS.I.	
Electric Requirement		40 KVA	
Machine L*W*H approx.	Inch	185"x87"x81"	224"x87"x81"
Machine weight approx.	Pounds	17,637 lbs.	19,842 lbs.

Specifications are subject to change without notice



Machine Specifications BL-975-2000-9", 3000-12"

Control		Fanuc Oi-TC	Fanuc Oi-TC
Machine Capacity		9"	12"
Swing Max.	Inch	55.1"	
Swing over cross slide	Inch	38.3"	
Machining length Max.	Inch	78"	118"
Travel X axis	Inch	18.89"	
Travel Z axis	Inch	78"	
Rapid X and Z axis	Inches/ Minute	314" per Minute	
Feedrate Max. X and Z axis	Inches/ Minute	196" per Minute	
Spindle			
Spindle nose	ISO	A2-15	A2-20
Spindle bore diameter	Inch	9.0"	12.0"
Spindle gearbox	Range	4 Range Gearbox	
Spindle speed Max.	RPM	450 RPM	350 RPM
Spindle motor output	HP	50/60 HP	
Spindle Bearings	HP	Timken LM451349/LM451310	Timken L163149/L163110
4 position Square Turret (Standard)			
Square Tool Shank	Inch	1.25"x1.25"	
Boring Bar Max.Diameter	Inch	2.5"	
8 position Turret (Optional)			
Square Tool Shank	Inch	1.25"x1.25"	
Boring Bar Max.Diameter	Inch	2.5"	
Tailstock			
Tailstock movement type	Inch	Manual	
Quill stroke	Inch	5.9"	
Quill diameter	Inch	4.7"	
Quill inside taper	MT.	6# Morse Taper	
Bearing Type Quill		(Optional)	
Machine Miscellaneous			
Bed Width	Inch	26"	
Cross Slide Width	Inch	13.7"	
Z Axis: Bed Ways are Box and Vee for (Better Accuracy)		(3 Vee Guide way) 2 for Carriage, 1 for Tailstock	
X Axis Cross Slide: Box Ways for Higher Rigidity (not dovetail)	Inch	13.7" wide	
Servo Motor X axis		Fanuc alpha 12/2000i	
Servo Motor Z axis		Fanuc alpha 22/2000i	
Thrust X axis		2,686lbs / 5,372lbs of Thrust	
Thrust Z axis		2,954 lbs / 5,909 lbs of Thrust	
Ball Screw X axis		1.57" Diameter X .2362" Pitch	
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Ball Screw Thrust Bearings X axis		NSK 30TAC62APN	
Ball Screw Thrust Bearings Z axis		NSK 45TAC100AD13DPN7	
Cabinet Heat Exchanger		Kakung EA-5AR ISO	
Main Hydraulic Unit		Yuken (Japan)	
Solenoid Valves		Yuken (Japan)	
Coolant Pump		1 hp (Taiwan)	
Air Requirement		90 PS.I.	
Electric Requirement		40 KVA	
Machine L*W*H approx.	Inch	214"x106"x93"	254"x106"x93"
Machine weight approx.	Pounds	20,100 lbs.	22,300 lbs.

Specifications are subject to change without notice



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- Applications Consulting
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