



Precision CNC Flat bed Lathe
Go SIMPLE! GO EASY!

ATL 18" ~33" Series Flat Bed CNC Lathe

The Easiest Conversational NC lathe you can trust!!!



Technology | Creativity | Reliability
An Unswerving Commitment to Excellence

Headstock

Rugged high grade alloy gears are hardened & ground by Reishauer to achieve for smooth, quiet and vibration-free running.

The main spindle is supported by selected taper roller bearings and preloaded roller bearing to ensure high running accuracy through full speed ranges. And this design also insures spindle's high rigidity and concentricity.

Pressurized circular lubrication from separate electric pump and oil reservoir provides a constant flow to all gears and bearings which maintains excellent thermal stability. Hot oil does not stay in headstock thus preventing thermal expansion and work piece intolerance.

Speed range selection is driven by an electric motor which automatically selects the range when control asks for the change.

The 5000 turn Nemicon encoder equipped on the secondary spindle shaft to provide the exact position of speed reading for spindle's infinitely variable speed selection.

The four parallel V-belts assure drive in extremely stable, smooth running with minimum vibration. Powerful frequency, efficient YASKAWA vector type inverter and main spindle motor meets international standards and is dynamically balanced with pulley to optimize torque and horsepower.

Bed and Carriage

One piece machine base casting from 18" to 25" model is the solid & stable foundation for our lathe. Once it is attached to the precision ground bed with 14" wide bed ways, which was annealed to relieve stress and induction hardened to hardness HRC 52, the entire combination features outstanding structural rigidity and excellent vibration absorbing ability.

Dovetailed carriage and cross slides are both hardened and precision grounds. Saddle is laminated with Turcite-B and is scraped to maximizing matching surfaces.

X, Z axis ball screws are supported by forced angular contact bearings to enable sensitive movement. One end is fixed and the other free end is supported by forced angular contact bearings or angular contact bearings.

Build-in electronic stops in X & Z axes eliminate the chance of over travels.

Front mount cutting turret and rear mount servo motor will eliminate the cantilever on the saddle. No more unbalancing and rocking of the saddle when heavy cutting!

Forced auto lubrication on X, Z axis ball screws, contacting surfaces and gibs ensures high resistance to wear and prolong life-span of the contacting parts.



■ ATL 1840

CE Standard Electric Cabinet

A complete sealed electric cabinet with power disconnect to prevent fluid or dust from entering.

Integrated electrical engineering with I/O plate and component set type evidence all control system's performance and allow for easy troubleshooting.

Top mounting resistors are heat dissipater that reduces heat build-up when user constantly forward and reverse the spindle.

Powerful top-and-down mounted fans use hot & cold air principle to reduce heat build-up in the electric cabinet.

Each electric component is placed under CE guideline and is quick and easy to maintain.

A top mount warning light displays three colors to indicate the state of the machine. Red means error within operation procedure; yellow displays when the job is finished; and green is showing machine is in the state of running. (Note: This applies only to Fagor controller; other controllers may have a different setting.)



Tailstock

Rigid construction and increased throat depth on tailstock with MT#5 taper quill. When applying with manual 4 way tool post, electric H4 or H8 turret, it allows for free cutting of long and heavy work pieces. When performing manual drilling, the quill can be set to zero for easy drilling depth measurement. Can be optionally equipped with a hydraulic quill to automatically travel forward and reverse.

Movable Manual Control Panel

Providing convenient manual control for X, Z axis, the panel has two Manual Pulse Generators installed for minute axis increment.

Comprehensive, waterproof function keys and push buttons enhance operational convenience.

Fully Enclosure Splash Guard

Standard sized enclosure for model ATL 1860 to ATL 3360. All models with the same length will have the same sized cover enclosure. This design reduces parts inventory and also increase interchangeability between models.

A designed open-able door on rear splash guard and right side guard provide for X & Z axis, ensures easy axes maintenance and assembly adjustments.

Note: CE standard fully enclosed splash guard is an option upon request!



■ ATL 2580

Optional Accessories



3 jaw scroll chuck



Chip conveyer system



External coolant tank



Electric 4 way tool post



Hydraulic 3 jaw chuck



Hydraulic 8 tools turret



Hydraulic tailstock



Electric 8 tools turret



Side oil tank



Spindle oil chiller unit



■ ATL 2160



Model		ATL 1840	ATL 1860	ATL 1880	ATL 2140	ATL 2160	ATL 2180	ATL 2540	ATL 2560	ATL 2580	
Working Capacity	Swing over bed	460mm (18.11")			540mm (21.25")			630mm (24.80")			
	Swng over cross slide	230mm (9.06")			310mm (12.20")			400mm (15.75")			
	Max. cutting length	4 way tool post/H4 electric turret; spindle w/3 jaw chuck to center	780mm (30.71")	1280mm (50.39")	1780mm (70.08")	760mm (29.92")	1260mm (49.61")	1760mm (69.29")	760mm (29.92")	1260mm (49.61")	1760mm (69.29")
		V8 electric turret; spindle w/3 jaw chuck to center	700mm (27.56")	1200mm (47.24")	1700mm (66.93")	670mm (26.38")	1170mm (46.06")	1670mm (65.75")	610mm (24.02")	1110mm (43.70")	1610mm (63.39")
		Center to center	900mm (35.43")	1400mm (55.12")	1900mm (74.80")	900mm (35.43")	1400mm (55.12")	1900mm (74.80")	900mm (35.43")	1400mm (55.12")	1900mm (74.80")
	Max. cutting diameter	4 way tool post/H4 electric turret	460mm (18.11")			540mm (21.25")			625mm (25.98")		
		V8 electric turret	460mm(18.11")			540mm(21.25")			590mm(23.23")		
	Distance between centers	900mm (35.43")	1400mm (55.12")	1900mm (74.80")	900mm (35.43")	1400mm (55.12")	1900mm (74.80")	900mm (35.43")	1400mm (55.12")	1900mm (74.80")	
	Center height	230mm(9.06")			270mm(10.63")			315mm(12.40")			
	Width of bed	350mm (13.78")									
Headstock and Main Spindle	Range of spindle speeds	H: 3100~681RPM M: 680~153RPM L: 152~33RPM			H: 2250~491RPM M: 490~126RPM L: 125~27RPM			H: 1500~331RPM; 800~176RPM Opt. M: 330~93RPM; 175~53RPM Opt. L: 92~20RPM; 52~10RPM Opt.			
	Spindle nose; internal taper	D1-6; 1:20			D1-8; 1:16			A2-11; 1:20			
	Spindle bore	56mm (2.20")			85mm (3.35")			105mm (4.13"); 153mm (6.02") Opt.			
Cross-slide and Carriage	Cross slide travel (X axis)	280mm (11.02")			350mm (13.78")			350mm (13.78")			
	Longitudinal travel (Z axis)	810mm (31.89")	1310mm (51.57")	1810mm (71.26")	810mm (31.89")	1310mm (51.57")	1810mm (71.26")	810mm (31.89")	1310mm (51.57")	1810mm (71.26")	
	AC servo (X axis)	6.3NM									
	AC servo (Z axis)	6.3NM									
	Diameter of ball screw (X axis)	25mm (0.98") P5 C3									
	Diameter of ball screw (Z axis)	40mm (1.57") P10 C5									
	Rapid travel speed (X axis)	5m/min (196.85"/min)									
	Rapid travel speed (Z axis)	7m/min (275.59"/min)									
Turret	Tool Station	Manual 4 way tool post		Electric H4 turret		Electric V8 turret					
	Size of cutting tool	□25mm (0.98")		□25mm (0.98")		18" □20mm (0.79"); 21"/25" □25mm (0.98")					
	Boring bar diameter	18" Φ25mm (0.98"); 21"/25" Φ40mm (1.57")									
Tailstock	Quill diameter	75mm (2.95")									
	Quill travel	170mm (6.69")									
	Quill Taper	MT #5									
Motor	Main spindle	Inverter AC 7.5KW (10HP)			Inverter AC 7.5KW (10HP)			Inverter AC 11KW (15HP)			
	Forced Lube pump for headstock	0.18KW (1/4 HP)									
	Coolant pump	0.12KW (1/6 HP)									
Tank Capacity (Approx.)	Coolant tank w/chip tray (Opt.)	47L/12.42gal	70L/18.49gal	90L/23.78gal	47L/12.42gal	70L/18.49gal	90L/23.78gal	47L/12.42gal	70L/18.49gal	90L/23.78gal	
Measurements	Weight (Net/Gross) Approx.	mm	2900/3300	3200/3700	3500/4100	3100/3500	3400/3900	3700/4300	3200/3600	3500/4000	3800/4400
		lbs	6380/7260	7040/8140	7700/9020	6820/7700	7480/8580	8140/9460	7040/7920	7700/8800	8360/9680
	Packing dimension	Length	285cm(113")	335cm(132")	385cm(152")	285cm(113")	335cm(132")	385cm(152")	285cm(113")	335cm(132")	385cm(152")
		Width x Height	205x212cm (80.71"x83.46")								

Note: The manufacturer reserves the right to modify the design, specifications, and dimensions without notice. All the specifications shown above are for reference only.



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ATL 3060	ATL 3080	ATL 30120	ATL 30160	ATL 3360	ATL 3380	ATL 33120	ATL 33160
770mm (30.31")				840mm (33.07")			
500mm (19.69")				570mm (22.44")			
1300mm (51.18")	1800mm (70.87")	2800mm (110.27")	3800mm (149.61")	1300mm (51.18")	1800mm (70.87")	2800mm (110.27")	3800mm (149.61")
1150mm (45.28")	1650mm (64.96")	2650mm (104.33")	3650mm (143.70")	1150mm (45.28")	1650mm (64.96")	2650mm (104.33")	3650mm (143.70")
770mm (30.31")				800mm (31.50")			
690mm(27.17")							
1500mm (59.06")	2000mm (78.74")	3000mm (118.11")	4000mm (157.48")	1500mm (59.06")	2000mm (78.74")	3000mm (118.11")	4000mm (157.48")
385mm(15.16")				420mm(16.54")			
450mm (17.72")							
H: 1500~331RPM; 800~176RPM Opt. M: 330~93RPM; 175~53RPM Opt. L: 92~20RPM; 52~10RPM Opt.				H: 1500~331RPM; 800~176RPM Opt.; 450~108RPM Opt. M: 330~93RPM; 175~53RPM Opt.; 107~31RPM Opt. L: 92~20RPM; 52~10RPM Opt.; 30~6RPM Opt.			
A2-11; 1:20				A2-11; 1:20 / A2-11; 1:20 / A2-15; 1:20			
105mm (4.13"); 153mm (6.02") Opt.				105mm (4.13"); 153mm (6.02") Opt.; 230mm (9") Opt.			
450mm (17.72")							
1500mm (59.06")	2000mm (78.74")	3000mm (118.11")	4000mm (157.48")	1500mm (59.06")	2000mm (78.74")	3000mm (118.11")	4000mm (157.48")
6.3NM							
11.6NM							
28mm (11.02") P5 C3							
50mm (1.97") P10 C5							
5m/min (196.85"/min)							
7m/min (275.59"/min)							
Manual 4 way tool post		Electric H4 turret		Electric V8 turret			
□32mm (1.26")		□32mm (1.26")		□25mm (0.98")			
Φ40mm (1.57")							
105mm (4.13")							
220mm (6.69")							
MT #5							
Inverter AC 15KW (20HP)				Inverter AC 15KW (20HP)			
0.18KW (1/4 HP)							
0.18KW (1/4 HP)							
170L/44.91gal	230L/60.76gal	280L/73.97gal	330L/87.18gal	170L/44.91gal	230L/60.76gal	280L/73.97gal	330L/87.18gal
4300/4800	4800/5400	5800/6600	6800/7800	4500/5000	5000/5600	6000/6800	7000/7800
9460/10560	10560/11880	12760/14520	14960/17160	9900/11000	11000/12320	13200/14960	15400/17160
400cm(158")	450cm(178")	550cm(217")	650cm(256")	400cm(158")	450cm(178")	550cm(217")	650cm(256")
225x225cm (88.59"x88.59")			225x245cm(88.59"x96.46")	225x225cm (88.59"x88.59")			225x245cm(88.59"x96.46")

s, mechanisms, etc. to improve the performance of machine without notice.