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An Unswerving Commitment to Excellence

# ACER Conversational Teach-In CNC Lathe



**ATL 1440E**



**ATL 1740**

# SPECIFICATIONS

Model	ATL 1440E	ATL 1740	
Nominal Size	Swing Over Bed	14" (360mm)	17.32" (440mm)
	Center Height	7" (180mm)	8.66" (220mm)
	Swing Over Cross-slide	8.75" (225mm)	9.45" (240mm)
	Distance Between Centers	39.37" (1000mm)	37.40" (950mm)
	Width of Bed	9" (230mm)	11.81" (300mm)
	Slideway Surface Hardness	HRC 48°	
	Cutting Tool Max.	3/4"×3/4" (19×19mm)	1"×1" (25.4×25.4mm)
Spindle	Spindle Speed	L: 60~650 RPM H: 300~2700 RPM	L: 93~750 RPM H: 751~2600 RPM
	Spindle Range	2 Ranges (Manual)	2 Ranges (Automatic)
	Spindle Nose	D1-4	D1-6
	Spindle Nose Taper	MT #5	MT #6
	Spindle Bore	1.56" (40mm)	2.17" (55mm)
	Spindle Diameter Front Bearing (Taper Roller)	2.77" (70.25mm)	4.92" (125mm)
	Number of Bearing	2	
	Bearing Class (Radial Run-out)	P5	
X & Z Axes	Longitudinal Travel (Z axis)	39.37" (1000mm)	
	Z Lead Screw	32mm X P5.0 C5	
	Z Axis Servo Motor	1.34HP (1KW)	1.90HP (1.4KW)
	Cross-slide Travel (X axis)	7.87" (200mm)	11.02" (280mm)
	X Lead Screw	20mm X P5.0 C5	
	X Axis Servo Motor	1.34HP (1KW)	1.90HP (1.4KW)
	X/Z Axis Cutting Feed Rate	196.85" (5M) per min	
	X/Z Axis Rapid Traverse	295.28"/295.28" per min (7.5/7.5M per min)	196.85"/393.7" per min (5/10M per min)
Tailstock	Tailstock Quill Diameter	1.56" (40mm)	2.05" (52mm)
	Tailstock Quill Travel	4" (100mm)	5.91" (150mm)
	Tailstock Quill Taper	MT #3	MT #4
Motor	Spindle Servo Motor	5.0HP/7.5HP 30min (3.7KW/5.5KW 30min)	7.5HP/10.5HP 30min (5.5KW/7.7KW 30 min)
	Coolant Pump Motor	1/8 HP (93.25 watts)	
Lubrication & Coolant System	Coolant Tank	5.8 gal. (21.9 Liters)	20.3 gal. (77 Liters) External
	Lube Pump	0.53 gal. (2 Liters)	
	Headstock Oil Capacity	1.12 gal. (4.25 Liters)	1.59 gal. (6 Liters)
	Headstock Lubrication	Oil Bath	
Voltage	Voltage V	230V	
	Phase, Hz	3P 60HZ	3P 60HZ
	Amps at Full Load	19A	28.6A
Floor Space Requirement	Floor Dimension	77.96"×46.46"×74.84" (1980×1180×1900mm)	87.01"×55.12"×75.20" (2210×1400×1910mm)
Packing Dimension	Shipping Dimension	82.68"×49.22"×86.62" (2100×1250×2200mm)	89.76"×62.99"×83.07" (2280×1600×2110mm)
	Machine Weight (N.W.)	2,200 lbs (1000kgs)	3,850 lbs (1,750kgs)
	Machine Weight (G.W.)	2,420 lbs (1100kgs)	4,180 lbs (1,900kgs)

Note: The manufacturer reserves the right to modify the design, specification, mechanisms, etc., to improve the performances of the machine without notice. All the specifications shown here are for reference only.

## Standard Accessories:

1. Servo Drive Spindle Motor
2. High-Low Speed Range Selection
3. Canned Cycles
4. Semi-enclosure Splash Guard
5. Coolant System
6. Tailstock
7. Dead Centers
8. Leveling Pads with Screws
9. Tool Box with Tools
10. Operational Manual
11. Dual Manual Pulse Generator
12. LED Work Light

## Optional Accessories:

1. 3 Jaw Chuck
2. 4 Jaw Chuck
3. Roller Follow Rest
4. Roller Steady Rest
5. Face Plate
6. 5C Collet Closer
7. Quick Change Tool Post
8. Remote Stop/Go Switch  
(Must be installed at factory!)
9. Electric 4 Way Tool Post  
(Must be installed at factory!)
10. Full Enclosure Splash Guard  
(Must be installed at factory!)

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