

Model	ATM-1054	ATM-1054+	ATM-1054 ATC	Bed Mill e-1454B	ATM-1454	ATM-1454+	
Table	Table Size		10"×54" (254×1372mm)		14"×54" (356×1372mm)		
	T-Slots		3×5/8" (16mm)		3×5/8" (16mm)		
	Table Load		1320 lbs (600 kgs)		1960 lbs (891 kgs)		
Travel	X Axis Max./ Rapid Feed		31.5" (800mm)/200ipm		40" (1016mm)/200ipm		
	Y Axis Max./ Rapid Feed		20" (500mm)/200ipm		22.44" (570mm)/200ipm		
	Z Axis Max./ Rapid Feed		20.87" (530mm)/200ipm		26.77" (680mm)/200ipm		
	Max. Spindle Nose to Table		5.31" (135mm)~25.39" (645mm)		1" (25.4mm)~27.75" (705mm)		
Spindle	Spindle Center to Column Face		23.62" (600mm)		21.3" (540mm)		
	Quill Diameter		4" (100mm) / 4.72" (120mm)		4" (100mm) / 4.72" (120mm)		
	Quill Travel		5" (127mm)		5" (127mm)		
	Spindle Taper		CAT#40; BT#40, NMTB#40 Opt.		CAT#40; BT#40, NMTB#40 Opt.		
	Spindle Speed Hi/Low RPM		60~4500 / 7~570		60~4500 / 7~570		
	Spindle Feed-3 Ranges in(mm)/rev.		0.0015", 0.003", 0.006" (0.15, 0.04, 0.08mm)		0.0015", 0.003", 0.006" (0.15, 0.04, 0.08mm)		
Motor	Spindle Rotation Angle		±90° Left to Right		±90° Left to Right		
	Spindle HP		5 / 7.5		5 / 7.5		
	X Axis Servo Motor		DC 31.3 in-lb (AC 750watts Opt.)		DC 31.3 Lb-in (AC 1.5 KW Opt.)		
	Y Axis Servo Motor		DC 31.3 in-lb (AC 750watts Opt.)		DC 31.3 Lb-in (AC 1.5 KW Opt.)		
	Z Axis Servo Motor		DC 31.3 in-lb (AC 1 KW with brake Opt.)		DC 31.3 Lb-in (AC 2.2 KW Opt.)		
	Coolant Pump HP (Opt.)		1/8		1/8		
	Lubrication Pump Watts		80		80		
ATC Tool Dimension	Tool Total Length		— / 12" (300mm)		—		
	Tool Maximum Width		— / 2.95" (75mm)		—		
	Tool Total Weight		— / 15 lbs (8 kgs)		—		
Power	Control		110V / 1P / 20A or 230V / 3P / 50A		110V / 1P / 20A or 230V / 3P / 50A		
	Machine		6.35HP (4.7KVA) / 9HP (6KVA) / 18.75HP (12.5KVA)		6.35HP (4.7KVA) / 9HP (6KVA)		
Air Req.	Pneumatic Pressure		— / 85.34 psi (6 kg/cm²) min.		— / 85.34 psi (6 kg/cm²) min.		
Dimension	Max. Height		100" (2540mm)		108.7" (2760mm) / 104.7" (2660mm)		
	Height from Table Top to Bottom of Bed		35.43" (900mm)		31.5" (800mm)		
	Width of Machine Including Table		76.44" (1945mm)		94.49" (2400mm)		
	Overall Length with Electrical Door Closed		80.71" (2050mm)		84.65" (2150mm)		
	Overall Length with Electrical Door Open		103.15" (2620mm)		109.06" (2770mm)		
	Overall Width with Full Table Traverse		108.27" (2750mm)		141.73" (3600mm)		
	Footprint of Machine inches		76.44"×78.74"×100"		100"×74"×110"		
	Footprint of Machine metric		1945×2000×2540mm		2540×1880×2794mm		
Weight	Max. Machine Operation Space		109"×104"×98" / 275×262×248cm		109"×104"×98" / 275×262×248cm		
	Net Approx.		4558 lbs (2072 kgs) / 5001 lbs (2273 kgs) / 5896 lbs (2680 kgs) / 7800 lbs (3545 kgs)		6058 lbs (2748 kgs) / 6327 lbs (2870 kgs)		
Packing Dimension Approx.	Gross Approx.		4807 lbs (2185 kgs) / 5254 lbs (2388 kgs) / 6235 lbs (2834 kgs) / 8050 lbs (3659 kgs)		6336 lbs (2874 kgs) / 6605 lbs (2996 kgs)		
	X×Y×Z inch (metric) w/balancing block		86.22"×86.22"×85.83" / 219×219×218cm		86.22"×86.22"×99.61" / 219×219×253cm		
Maximum Working Capacity in Mild Steel							
Drilling Max. Capacity		Ø1" (25mm)		Ø1-1/4" (32mm)		Ø1" (25mm) / Ø1-1/4" (32mm)	
Milling Max. Capacity		5 in³/min (81.93 cm³/min)		7 in³/min (114.71 cm³/min)		5 in³/min (81.93 cm³/min) / 7 in³/min (114.71 cm³/min)	
Boring Capacity		Ø4.75" (120mm)		Ø6.3" (160mm)		Ø4.75" (120mm) / Ø6.3" (160mm)	
Tapping Max. Capacity		1" (25mm)		1.18" (30mm)		1" (25mm) / 1.18" (30mm)	
Handwheel Type (Opt.)		Electronic MPG		Electronic MPG		Electronic MPG	

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

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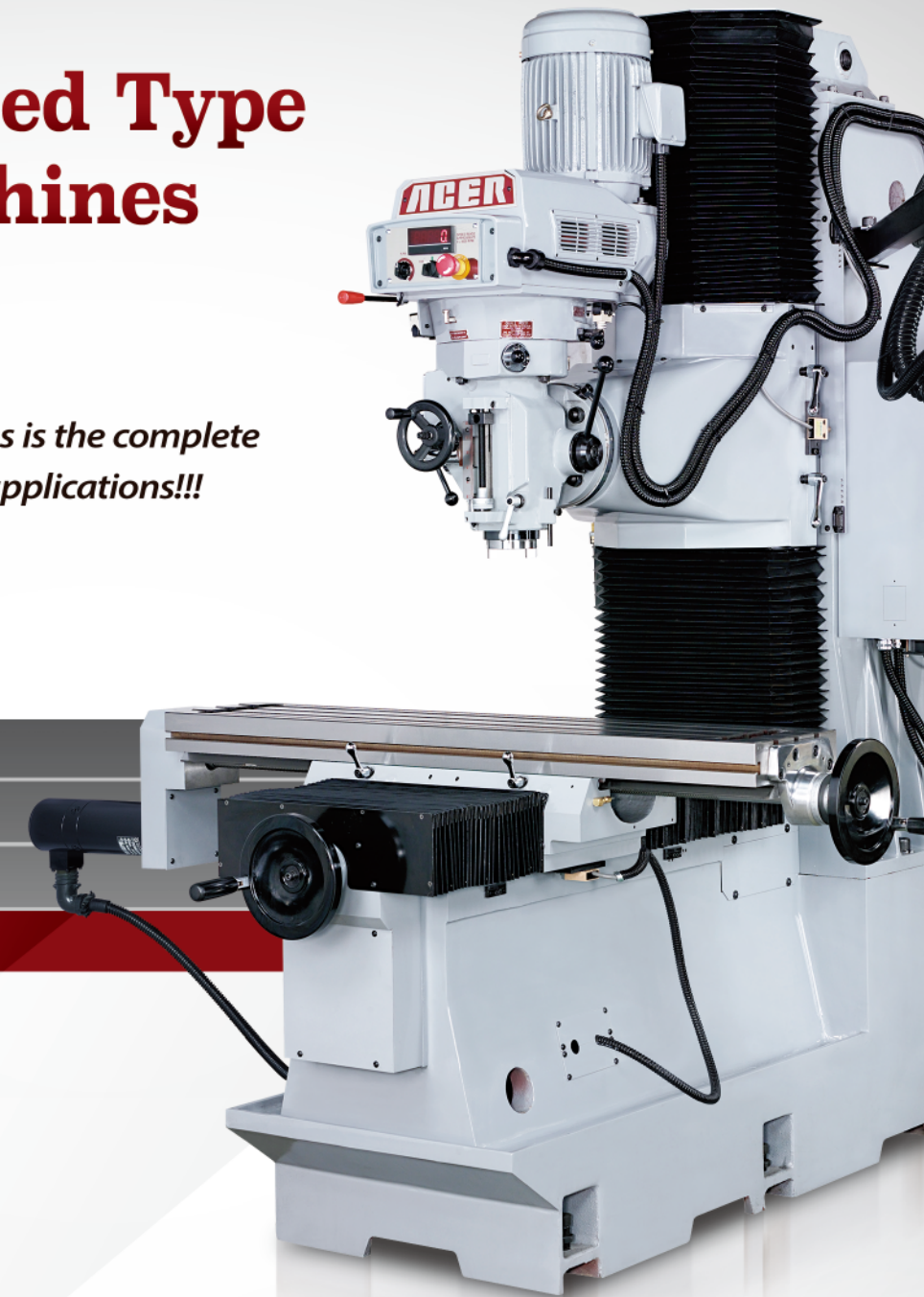
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# ACER CNC Bed Type Milling Machines

The ACER "Inverter-Drive" series is the complete Bed Mill for today's toolroom applications!!!





# ACER CNC BED TYPE MILLING MACHINES

## INTRODUCTION

The ACER "inverter-drive" series is the complete Bed mill for today's toolroom applications. Built to be the most accurate and reliable machine of its type, it is also extremely easy to use. Equipped with a manual quill (on certain models) and X and Y axes handwheels, the inverter-drive series give user the ability to use in manual, semi-CNC or full CNC mode. The various brands of conversational controllers make programming easy so even one prototype part can be done effortlessly and efficiently.

## FEATURES OF BED MILL

- Double Nut Ball Ground Finished C5 Ball Screws.
- X, Y, and Z axes hardened and ground slideways at 52 HRC.
- Saddle slideways are coated with Turcite-B and hand-scraped.
- Table top is 900mm (35.43") or 800mm (31.5") from the ground. It is ergonomic for users to place parts and reduce the stress on their back.
- Real handwheels on X and Y axes so users may work manually. (1054 models only!)

- Ball screw bearing pairs installed at the end of each axis.
- May run at single phase 230V.
- Inverter duty head that gives users programmable spindle speeds and the ability to tap.
- Precision Ground Guide line to 0.005/500mm (0.0002/20").
- Hardened & ground table top and bottom to HRC 52 degrees.
- Balancing block counter-balances the head housing weight.

- Precision 7010 or 7012 class 7 Spindle Bearing.
- 5HP or 7.5HP Inverter motor with fan cooling system that dissipates heat efficiently.
- Chromed Ground Quill.
- Automatic Lubrication System.
- Licensed Meehanite Castings.
- Added Canned Cycles.

- Servo drive on all three axes.
- Dish in Coolant Base.
- Accordion Type Way Covers.
- Automotive Painting Process.
- 4th axis rotary table ready!!!
- CE Standard Electric.

ATM-1054 ATC



ATM-1054



ATM-1054+



ATM-1454



ATM-1454+



Bed Mill e-1454B



\* Shown with optional accessories.

## Features of ATM-1054+ & ATM-1054 ATC

- Rigid spindle housing with pneumatic air tool change.
- Column base is 600mm (23.62") wide by 395mm (15.55") deep.
- Head stroke deep at 625mm (24.61").
- Height under the spindle nose is 645mm (25.4").
- Saddle supporting width is 600mm (23.62")- the widest at its class!
- Extra wide square slideways on Y (350mm/13.78") and Z (390mm/15.35") axes.
- Solid head-housing moves up and down for Z axis operation providing mass behind heavy cuts.
- Real handwheels on X and Y axes so users may work manually.
- Rigid Tapping Capability! (ATM-1054 ATC only)
- Standard umbrella ATC at 12 tools. (ATM-1054 ATC only)
- Standard with coolant system, table guard, chip pan and column guards. (ATM-1054 ATC only)

## Features of ATM-1454, ATM-1054 & Bed Mill e-1454B

- Users still retain the manual quill operation.
- Extra oilers to lubricate the hi/low components and to oil the quill.
- Grease fitting for lubricating bull gear.

## Features of ATM-1454+, ATM-1454 & Bed Mill e-1454B

- Rigid spindle housing with pneumatic air tool change. (ATM-1454+ only)
- Column base is 400mm (15.75") wide by 450mm (17.72") deep.
- Head stroke deep at 540mm (21.26").
- Height under the spindle nose is 705mm (27.75").
- Saddle supporting width is 1250mm (49.21")- the widest at its class!
- Extra wide square slideways on Y (450mm/17.72") and Z (300mm/11.81") axes.
- Solid head-housing moves up and down for Z axis operation providing mass behind heavy cuts. (ATM-1454+ only)

## Standard Accessories for Bed Mill

- Tool box with tools.
- Auto lubrication system.
- Leveling pads with screws.
- Touch-up paint.
- Accordion way covers on Y and Z axis.
- Operation manual with part manual.

## Optional Accessories for All Models

- MPG.
- 4th Axis Servo Drive and Motor.
- Air Power Drawbar (ATM-1054, ATM-1454 & Bed Mill e-1454B).
- Chip pan / Rear splash guard on right & left side.
- Flood coolant system.
- Table Guard.
- Glass Scales for Feedback.
- CAT#40 Collet Sets.
- Drawbar for NMTB#40 Collets.
- 4th Axis Rotary Table.

**Fanuc, Mitsubishi, and Other CNC Controllers Are Also Available!!!**

