ACER e-mill™ Technology • Quality • Reliability

FACTORY FIT WITH FAGOR CNC CONTROL

THE REAL SOLUTION

The intuitive FAGOR 8055*i* with interactive graphics and ICON based conversational programming understands machinists mind very well. Hence **It doesn't require any prior programming knowledge to operate**. It is like "operating a manual machine with full power of CNC". Unique screen design based on "One operation one Screen" prompts you to fill in the blanks and press cycle start. This exceptionally efficient SHOP Floor Programming system is very easy to use. The Fagor 8055i comes standard with Profile Editor a mini CAD-CAM system which helps you generate even complex profiles with ease. You can also program in G code using the full key board or use the DXF converter to import a program. The 8055*i* is expandable and the possibilities are endless!

- **Interactive ICON based conversational programming system.**
- **One screen - One operation, Fill in the blanks & press cycle start.**
- **No limit to the number of programs in memory!**
- **Built in Mini CAD/CAM system.**
- **11" Color TFT LCD screen.**
- **Numerous "Easy to Use" conversational cycles (36).**
- **Tool path and Solid graphic simulation standard.**
- **(3) 31 in/lb. DC motors and drives with option for AC Brushless or 41 in/lb. upgrade.**
- **Flash memory (1MB flash ram/ 512MB CF). 2GB CF optional**
- **USB Memory port standard. Ethernet optional**
- **WinDNC (DXF converter) and Engraving.**
- **FULL G-code programming with interactive help screens.**
- **Smart Z axis quill for CNC and manual mode with scale-fed DRO feedback.**
- **Full CNC package includes Ball Screws and Motor Brackets for all axes.**
- **Fagor 8055*i*/A-MC CNC's give you 4th axis capability out of the box!**

FAGOR CNC...
For today and tomorrow.

ACER Group

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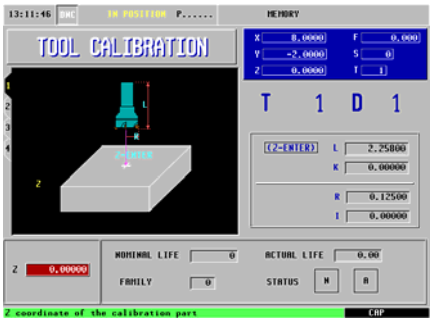
Powerful

Simple to most complex programming with ease

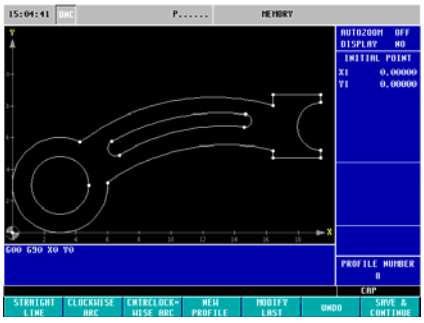


Tool Calibration

- Easy 2 keys tool setup. Touch tool on part and press Z and ENTER.

Simple Cycles (6)

- Slot Milling
- Ring Milling
- External & Internal Threading
- Rectangular Groove
- Engraving
- Part Skew



Profiling Cycle (2)

- Mini Cad system allows you to input drawings and it automatically generates a G-code program.

Surface Milling

- Surface mill in one or two directions across X or Y axis.

Grooving

- Grooving in different X Y planes.

Simple 2D & 3D Pockets

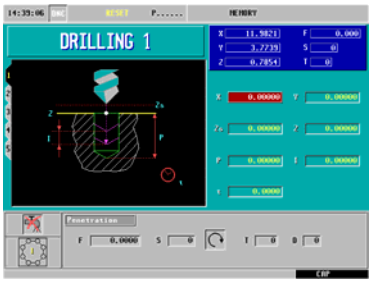
- Define 2D or 3D pockets using interactive graphic screen.

Bosses (2)

- Rectangular and Circular bosses. Option to choose machining directions(up or down)

Pockets (4)

- Rectangular & Circular pockets from simple to most complex.

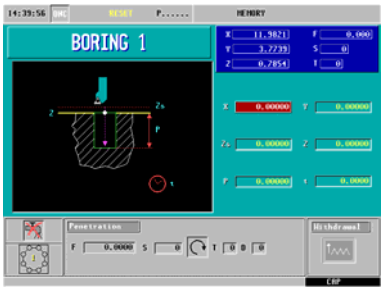


Drilling (5)

- 5 easy setup drilling styles to fit your machining needs. (Peck, return increment, center punch, etc.)

Tapping (2), Reaming, Boring

- Easy to use tapping, reaming, and boring cycle. Define positions, feed and speed, and press cycle start.



Re-positioning Cycle (2)

- Used to re-position your table allowing you to change parts and or tools.

Positioning Pattern Cycles *(Used for Drilling, Tapping, Reaming, Boring, and Pocket operations)*

- Random
- Linear
- Bolt hole
- Grid
- Rectangular

Mirror

- Mirror any part on X, Y, or XY plane with ONE push of a button.

Scaling

- Scale program from to 0.0001” to 9999.9999”.

Work Zone

- Setup maximum of 5 work zones to stay within secure coordinates.

ISO

- Manually insert G or M codes along with machining conditions on the fly. (MDI)

Job Clock

- Monitor how long it takes to machine a part.

Help key

- Various help screens to assist the operator.

Feed rate override

- Adjust your feed rate from 2% to 120% on the fly while the program is running.

Jogging style

- Use either your hand wheel or keyboard axis keys to jog axes.

Graphics

- 3D & 2D solid and tool path graphics for fast simulation.

DRO/CNC

- ONE button allows you to shuffle from CNC and DRO mode.

2/3 Axis

- Easily switch from full 3 axis to 2 axis.

Tool change position

- Setup a desired tool change location for all of your tool changes.

Conversational to G-code

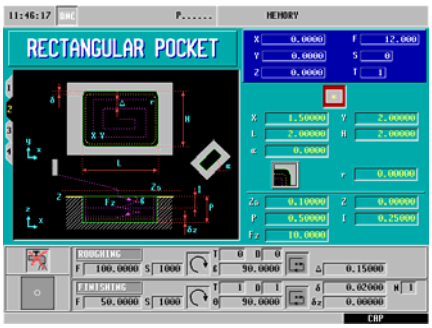
- ONE button can convert your conversational program to a full G-code program.

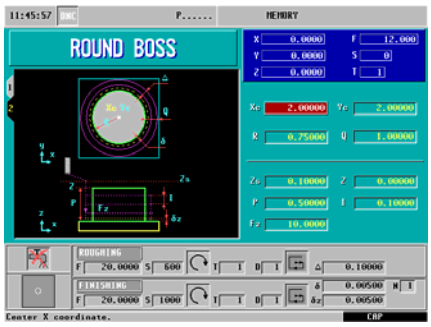
20 Work Zero Offsets & 255 tool offsets

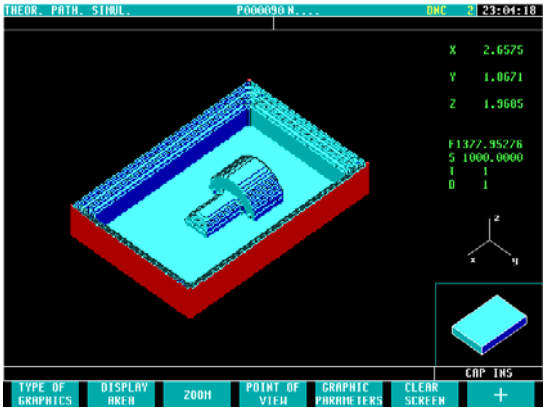
- Set different part zero offsets & tool offsets with ease.

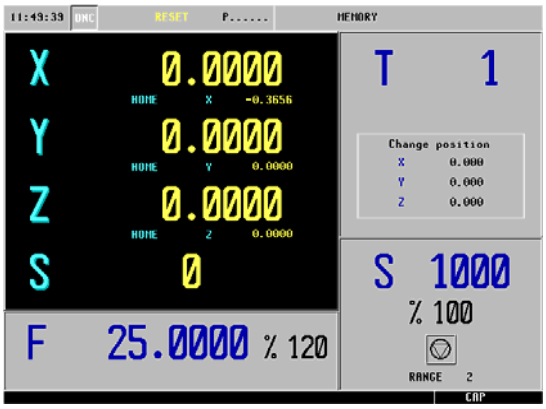
Coordinate rotation

- Rotate a portion or the complete program to a specific angle.









Single key BACKUP/RESTORE

- ONE key backup or restore to save all CNC parameters, programs, etc.

Telediagnosis

- Instant service through RS232 or Ethernet (optional). Fagor technicians can troubleshoot your Acer machine remotely.

512 MB flash memory (2GB option)

- Can store programs from 0-999999.

USB port

- Easy program uploading/downloading. (Ethernet optional)

Display

- 11” high resolution TFT Industrial LCD monitor. Viewable from any angle!

Keyboard

- Full alpha numeric keyboard with shortcut keys.

Dedicated ICON Programming Keys

- One button, One operation. (Graphics, milling, drilling, etc.)

WinDNC

- Free software to convert DXF files, drip feed programs, and transfer files to and from the CNC. (RS232 or Ethernet)

FAGOR 8055i 2 or 3 Axes CNC Turn Key Package

ACER e-mill™

Inverter Motor with Fan Cooling System that Dissipates Heat Efficiently

U.S. made Allen Bradley Switch

Extra Oilers to Lubricate the High-Low Moving Device and to Oil the Quill

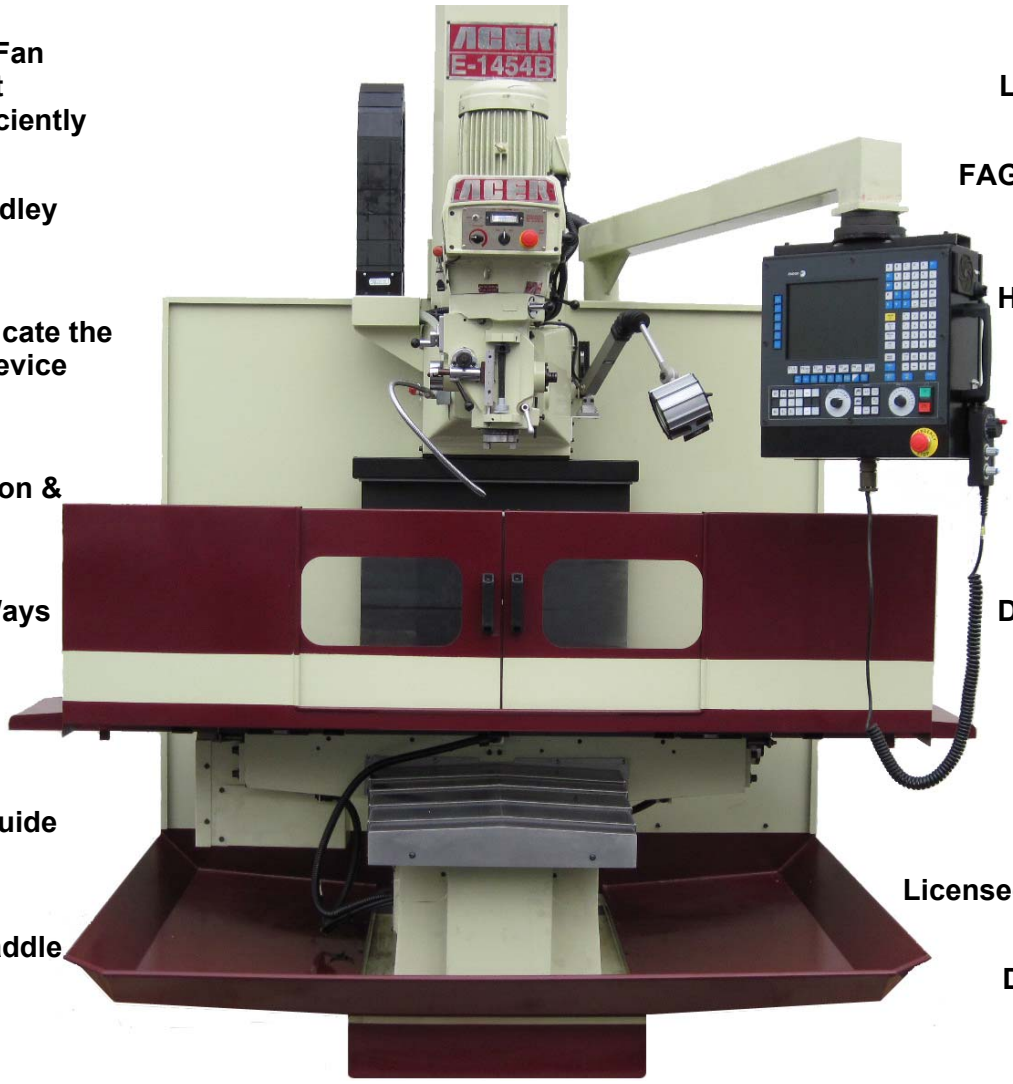
One Piece Quill Pinion & Shaft

Precision Ground Ways

Precision Class 4 Ballscrews

Precision Ground Guide Line to .0002”

Turcite-B Coated Saddle Ways



Grease Fitting for Lubricating Bull Gear

FAGOR CNC & Operator Console

Hand Scraped Turret-Column Ways

X, Y & Knee Axes are Hardened & Ground to HRC 52 degrees

Drives & Accessories Cabinet

Hardened & Ground Table Top to HRC 52 degrees

Licensed Meehanite Casting

Dish-in Coolant Base

	Item	E-mill 3VS	E-mill 3VK	E-mill 3VKH	E-mill 5VK	Bed-mill 1454
Table	Working Surface	9" x 42" 9" x 49"	10" x 50"	10" x 50" 10" x 54"	10" x 50" 10" x 54"	14" x 54"
	Longitudinal Travel	24" 28"	28"	27" 31"	27" 31"	40"
	Cross Travel	11 1/2"	14 1/2"	15"	15"	24"
	Vertical Knee Travel	16"	16"	19"	19"	28"
	Ram Travel	12"	20"	20"	20"	-
	T-slot #, size	3, 5/8"	3, 5/8"	3, 5/8"	3, 5/8"	3, 5/8"
Head	Main motor	3HP	3HP	3HP	5HP	5HP
	Head moves rt. to left	90 degrees	90 degrees	90 degrees	90 degrees	90 degrees
	Head tilts ft. to back	45 degrees	45 degrees	45 degrees	-	-
Spindle	Spindle speed	60 - 4500	60 - 4500	60 - 4500	50 - 3750	50 - 3750
	Spindle taper	R-8/N.T. 30	R-8/N.T. 30	R-8/N.T. 30	CAT 40/N.S.T. 40	CAT 40/N.S.T. 40
	Power quill feeds	0.0015", 0.003", 0.006"	0.0015", 0.003", 0.006"	0.0015", 0.003", 0.006"	0.0015", 0.003", 0.006"	0.0015", 0.003"
Quill	Quill diameter	3-3/8"	3-3/8"	3-3/8"	4"	4"
	Quill travel	4 1/4"	4 1/4"	4 1/4"	4 1/4"	5"
	Weight approximated	2630 lbs. 2680 lbs.	3300 lbs.	3550 lbs. 3700 lbs.	3750 lbs. 3900 lbs.	7800 lbs.
	Floor place	87" x 62" x 90"	96" x 72" x 92"	96" x 72" x 96"	96" x 72" x 96"	100" x 74" x 110"