

EDU Mill

Model Number: EDU MILL NO-3D

Equipped with Mitsubishi Electric's E80 CNC, this entry-level machine is a 3-axis CNC mill capable of machining a broad array of ferrous and non-ferrous materials. The EDU MILL NO-3D has everything you need to teach students the fundamentals of CNC milling while utilizing Mitsubishi Electric PLC and HMI commonly used by machine tool builders (MTBs) throughout the world. This machining center delivers hands-on experience for students wanting to start a career in the machining industry.

PURPOSE

Ideal for the classroom environment, the EDU MILL NO-3D fits through a standard doorway. Designed with a 24,000 rpm spindle and ball screws on each axis, this machine will produce accurate parts using a wide variety of material. Utilizing the standard G-code programming language, students will learn how to set tool movement, feed rate, spindle speed and tool offset parameters critical within manufacturing engineering programs. To allow for faster setting of tool offsets, this machine comes standard with a tool probing system that enables students to gain the added skill set of setting tools with a "pre-setter" which automatically calculates tool offsets just as any standard CNC machine would do.

Standard Options

- 8.4" LED screen
- Steel enclosure
- Steel stand with lockable casters
- USB and SD card interface
- Ethernet access port
- 512kb memory (upgradeable to 32GB with simple SD card)
- Data server
- EDU Mill starter package kit:
 - ✓ 3" vise
 - ✓ Basic assortment of carbide end mills, cobalt drill bits and 3.5" x 2.5" x 0.75" acrylic blanks
- Canned cycles for drilling applications
- Front door safety interlock
- Navi-Mill conversational programming
- Interactive cycle insertion (Icon-based programming)
- Made in the USA

Additional Options

- M80A touchscreen control



SPECIFICATIONS

X Axis Travel	7" (178 mm)
Y Axis Travel	10.5" (266 mm)
Z Axis Travel	5" (127 mm)
Spindle	100–24,000rpm, 2.2KW
Rapid Feedrate	400 ipm (10,200 mm/min)
Cutting Feedrate	240 ipm (6,120 mm/min)
Tooling Type	ER-20
Tool Storage	0
Accuracy	0.0004" (0.01mm)
Dimensions (H x W x D) in	70.5 x 27.5 x 33.5
Weight (lbs)	300 (136 kg)
Power Source	110–220VAC (15A)

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Contact us to learn more about Diamondworks! Workforce Development: Diamondworks@meau.com

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