

EDU - Mill

LOW-INERTIA CNC MACHINE WITH METAL 3D PRINTING

CONTROLS

FANUC



CHARACTERISTICS

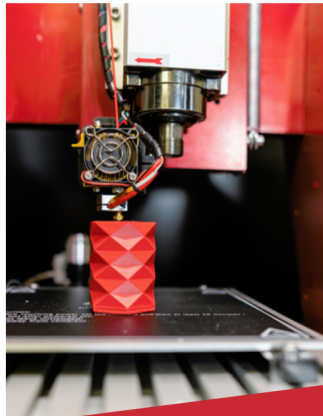
- Dimensions W 27.5" (0.7 m), D 33.5" (0.85 m)_ H 41.5" (1.05 m)
- Weight 300 lbs. (136 kg)
- Power 110-120 VAC, 15 A
- Steel enclosure
- Large door for easy access to machining area
- Large side windows to monitor machining processes
- Fits through a standard doorway
- Optional stand with casters for easy relocation

SPECS

- Servo motors: 130W brushless AC type for X, y, and Z axis, 600 rpm
- Travel x 7" (178 mm), Y 10.5" (267 mm), Z 5" (127"mm)
- Rapid feed 400 ipm (10,2000 mm/min)
- Accuracy 0.0004" (0.01mm)
- Worktable size - 14.5" 9.8" (370 x 250 mm)

FEATURES

- Servo control technology for each axis
- Size 15 linear guideways
- C7 ball screws
- Safety door sensor
- Tool length sensor
- High-speed spindle



SPINDLE SPECS

- 2.2 kW
- 24,000 rpm
- Er-20 taper
- Air cooled
- Ceramic bearings
- Runout <0.0004" (0.01mm)
- 220 VAC, 6 A



Flexibility. Adaptability. Affordability.

3D Printing ADD-ON

Add a single or a dual head Fused Deposition Modeling (FDM) to the EDUMILL by simply adding the magnetic 3D printing system to the machine. This will allow you to turn your milling machine into a 3D printer.

Printing Process

Fused Deposition Modeling (FDM) or Fused Filament Fabrication (FFF)

Extruder

Single Head Extrusion (Levil Control Only)

- 0.04 mm nozzle
- Heating element up to 260 deg.
- Heating bed up to 90 deg.

Dual Head Extrusion

- Dual extruder with 0.4 mm nozzles
- Heating element up to 300 deg. (FANUC, & Levil)
- Heated bed up to 90 deg.

Build Volume

6.3" x 10.2" x 4.3" (160 x 260 x 110 mm)

Extruder System

Direct drive

Building plate

Heated table 8.6" x 8.6" (220 x 220 mm)

Material Storage

Sealed within machine enclosure

Materials

PLA, ABS, PETG, TPU, metals and many more

Minimum Layer Resolution

100 microns

WE BRING METAL TO YOUR WORKSPACE

Design, print, sinter in a few steps. 3D-print real metal parts affordably and in the comfort of your home, office, or lab. You can now print metals such as Bronze, Copper and Stainless Steel.

Filaments

- Copper
- Bronze
- Stainless Steel 316L
- Stainless Steel 17-4
- Aluminum 6061
- Carbon Fiber
- Titanium 64-5



OUR KILNS FOR SINTERING

STARTER KILN

- Max temp 2500 F / 1370 C
- Electric with automatic gas injection
- 120 VAC, 60 Hz, 15A, 1800 W
- Single-phase
- Chamber: 0.13 cubic ft. / 3.7 L. 6" x 6" x 6.25" (W,D,H)
- Outer dimensions: 11.0" x 15" x 18" (W,D,H)

PRO KILN

- Max temp 2500 F / 1370 C
- Electric with automatic gas injection
- 120 VAC, 160 Hz, 45A, 10800 W
- Single-phase
- Chamber: 2.4 cubic ft. / 68.0L. 18" x 18" x 13" (W,D,H)
- Outer dimensions: 28.0" x 36.5" x 28" (W,D,H)



For more information or to request a quote, contact your Levil distributors at LAB Midwest
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