

SRM-20

COMPACT 3D MILLING & ENGRAVING SOLUTION



3D MILL PARTS
& PROTOTYPES

EASY TO LEARN & USE

ENGRAVING KIT
AVAILABLE

M&E

Mill and engrave a variety of materials

- ▶ Compact size conveniently fits in school, office, and home environments.
- ▶ Mill a wide range of materials, including plastic, wood, foam, acrylic, ABS, PC boards, and more.
- ▶ Optional engraving kit expands capabilities to include diamond scribing and rotary engraving.
- ▶ VPanel operation allows for machine control, calibration, and diagnostics from your computer.

KF

Key features

- ▶ Easy-to-use interface and open access to the work area
- ▶ Powerful spindle motor
- ▶ Fully enclosed cover for dust prevention and reduced noise
- ▶ User-friendly VPanel controller
- ▶ Bundled software to start milling out of the box
- ▶ G-code compatible



Optional engraving kit includes:

- ▶ Vectric Engraving Software
- ▶ Tooling for metal scribing and rotary engraving
- ▶ 1/4" and 1/8" collets for compatibility with tooling
- ▶ Threaded offsets for full Z-axis motion
- ▶ Indexing fixture for material positioning
- ▶ Centering vise for loading and unloading of items
- ▶ Adhesive sheets to keep material and fixtures in place

Additional Features

- + 8" (X) x 6" (Y) x 2.38" (Z) maximum axes operation
- + Milling speed and spindle RPM adjustments can be made during production
- + Independent collet system allows for faster setting of Z-axis base point and quick tool changes
- + Versatile tooling options
- + Bundled software: Modela Player 4 CAM, iModela Creator, ClickMill, and Virtual MODELA

Technical Specs

	SRM-20
Cuttable material	Materials such as Modeling Wax, Chemical Wood, Foam, Acrylic, Poly acetate, ABS, PC board
X, Y, and Z operation strokes	8 (X) x 6 (Y) x 2.38 (Z) in. (203.2 (X) x 154.2 (Y) x 60.5 (Z) mm)
Distance from collet tip to table	Maximum 5.15 in. (130.75 mm)
Table size	9.14 (X) x 6.17 (Y) in. (232.2 (X) x 156.6 (Y) mm)
Loadable workpiece weight	4.4 lbs (2 kg)
X-, Y-, and Z-axis drive system	Stepper motor
Operating speed	0.24–70.87 in/min (6–1800 mm/min)
Software resolution	0.00039 in/step (RML-1), 0.000039 in/step (NC code) (0.01 mm/step (RML-1), 0.001 mm/step (NC code))
Mechanical resolution	0.0000393 in/step (0.000998594 mm/step)
Spindle motor	DC motor Type 380
Maximum spindle rotation	7,000 rpm
Cutting tool chuck	Collet method
Control command sets	RML-1, NC code
Power	Machine: DC24V, 2.5A, Dedicated AC adapter: AC 100-240V ±10%, 50/60Hz
Power consumption	Approx. 55W
Accoustic noise level	During operation: 65 dB (A) or less (when not cutting), during standby: 45 dB (A) or less
Dimensions/weight	17.76 (W) x 16.80 (D) x 16.78 (H) in. / 43.2 lbs (19.6 kg) (451.0 (W) x 426.6 (D) x 426.2 (H) mm)
Interface	USB
Installation environment	Temperature of 41 to 104°F (5 to 40°C), 35 to 80% relative humidity (no condensation)
Included items	USB cable, AC adapter, Power cord, Collet (.236 in / 6mm), Collet set screw, Spanners (0.28, 0.39 in. / 7, 10mm), Hexagonal wrench (0.059, 0.12 in/size 2,3 mm), Positioning pins, Double-sided tape, Start-up page guidance card, Cutting tools not included



Built to build your business and engineered to a higher standard, the SRM-20 is supplied with a 1-Year Trouble-Free Warranty for added peace-of-mind.