



iModela iM-01 Specifications

Acceptable materials	Soft material such as resins (except conductors such as metals and carbons)
X, Y, and Z operation strokes	X, Y, and Z : 86 x 55 x 26 mm (3.39 x 2.17 x 1.02 inches)
Distance from collet tip to table	Maximum 55 mm (2.17 inches)
Table size	Width x depth : 86 x 55 mm (3.39 x 2.17 inches)
Mountable cutting material weight	200g (0.4lbs)
X-, Y-, and Z-axis drive system	Stepping motor
Operating speed	X and Y axes : 6 to 240 mm/min (0.24 to 9.45 inches/min) Z axis : 6 to 180 mm/min (0.24 to 7.09 inches/min)
Software resolution	0.01 mm/step (0.00039 inches/step; RML-1), 0.001 mm/step (0.000039 inches/step; NC code)
Mechanical resolution	0.000186 mm/step (0.00000732 inches/step; micro steps)
Spindle motor	iM-01 spindle motor

System Requirements for USB Connection

Computer	A model preinstalled with Windows XP / Windows Vista / Windows 7 (32-bit/64-bit), or preinstalled with Windows XP or later that has been upgraded to a later version of Windows
USB cable	Use the included USB cable

System Requirements for iModela Creator (Included Software)

Operating system	Windows 7/Windows Vista/Windows XP (32-bit/64-bit)
CPU and memory (RAM)	Core 2 Duo or faster, 1 GB or more
Optical drive	CD-ROM drive
Video card and monitor	A resolution of 1280 x 1024 pixels, 16-bit color or more recommended

Connectivity	USB (compliant with Universal Serial Bus Specification Revision 2.0 Full Speed)
Control command set	RML-1, NC code
Power supply conditions	Dedicated AC adapter : AC 100 to 240 V \pm 10%, 50/60 Hz Machine: DC 24 V, 0.7A
Power consumption	Approx. 14 W
Operating noise	During operation: 57 dB (A) or less (when not cutting), during standby: 39 dB (A) or less
Dimensions	214(W) x 200(D) x 205(H) mm (8.43(W) x 7.87(D) x 8.07(H) inches)
Weight	1.7 kg (3.7 lbs)
Environmental	Temperature: 5 to 35°C (41 to 95 °F), humidity: 35 to 80% RH (no condensation) Ambient pollution degree: 2 (as specified by IEC 60664-1)
Included items	Power cord, AC adapter, USB cable, cutting tool (axis diameter : 2.35 mm, tip of the blade diameter : 1.6 mm), mounting screws (for fixing the cutting tool in place), hexagonal wrench (for fixing the cutting tool in place), spare hooks, replacement spindle motor, blower fan, maintenance grease, cleaning brush, double-sided tape, trial cutting materials, trial scrap plate, flathead screwdriver, Roland software package, setting board, and user's manuals

Option	Model number	Description
Spindle motor	IS-1	2 pcs
Straight cutter	ZCS-100M	Cemented carbide, dia = 1mm, d = 2.34mm, L = 45mm; 1 piece
	ZCS-160M	Cemented carbide, dia = 1.6mm, d = 2.34mm, L = 45mm; 1 piece
Ball tip cutter	ZCB-100M	Cemented carbide, dia = 1mm, d = 2.34mm, L = 45mm; 1 piece
	ZCB-210M	Cemented carbide, dia = 2.1mm, d = 2.34mm, L = 45mm; 1 piece
Chemical wood	ZSM-MS	86x55x10mm, 5 pieces, grayish brown
	ZSM-TW	86x55x10mm, 5 pieces, apricot-colored
Trial kit	ZTK-1	Spindle Motor x2, chemical wood (grayish brown x1, apricot-colored x1), protection plate x1, and plastic case x1

*dia = tip diameter, d = shank diameter, L = overall length

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