

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 ±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 (3.7lbs)

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	86×55×10mm, 5 pieces, grayish brown
	ZSM-TW	86×55×10mm, 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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Apply Texture, Form and Detail to a World of Creative Projects

Roland's revolutionary new 3D digital craft tool is an inexpensive, easy-to-use platform for exploring your creativity. A compact, desktop device, the iModela fits comfortably in your work space or travels anywhere your imagination takes you.

iModela **iM-01**



The Perfect Addition to Your Creative Workshop

iModela features a rotating cutter that precisely mills 3D shapes, patterns and designs in resin materials. With just a power switch, simple LED display and external control panel for adjusting computer settings, iModela is easy to setup and operate. A specially designed spindle motor*1 unit supports a variety of milling tools*2 - commonly available at model shops and do-it-yourself (DIY) retailers. Its compact design allows iModela to fit right on your desktop and a dedicated carrying case provides for easy storage in between projects.

*1 Spindle motor is compatible with 130 motor for model.

*2 Accommodates both new and used tools (dia. 2.35mm), including router bits



iModela iM-01

Boost Your Creativity with iModela Creator Design Software

iModela comes complete with its own 3D design software, iModela Creator, allowing you to create and mill shapes, holes, textures and patterns with precision right out of the box. Intuitive menus and icons make design and production easy. With iModela Creator, you can also access free-hand drawing tools to sketch out ideas. Then simply load your cutting material into the mill, and iModela does the rest, recreating your design in precise detail. A complete system, iModela and iModela Creator produce a wide range of items, from charms, pendants and key chains to small figurines and accessories for doll houses and model train sets.



Cutting samples designed with iModela Creator

Proven Performance

iModela incorporates 25 years of Roland's proven professional milling technology into an easy-to-use device with powerful performance features. MODELA Player 4 CAM software can be downloaded from the Roland iModela website, allowing you to model 3D data that is also downloaded from the Internet, or purchased from third party websites.



A modeling sample using Modela Player 4

Exclusive Website for the iModela Community



To help iModela artists learn, share and further their creative goals, iModela has its own dedicated website, <http://icreate.rolanddg.com>. In addition to complete information on the product, the site discusses design ideas, production workflows and maintenance tips, and also offers free project samples you can download for production on your iModela. Direct links to Facebook, YouTube and Twitter allow you to share your projects and techniques with other iModela users. The site also features a wide range of optional materials and supplies, which can be purchased conveniently online.*3

*3 The online shop is not available in some regions.



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