

# **MODELA**

**3D PLOTTER**



**Modela 3 – MPX 3**

Versatile home pack of 3D modeling hardware & software.

Modela is the unique combination of hardware and software which enables you to design and produce three dimensional (3D) objects directly from a computer screen. 3D models can be easily designed on screen using the unique software which allows continual change to be processed as your imagination grows. Being your ideas to life with MODELA, easily converting screen images to real 3D objects.

## **MODELA**

### **Major Features of MODELA**

- Easy and unattended creation of 3D models
- MODELA Player software and Windows 95/NT driver included
- Endorsed for complete safety
- Simple to set up and use

### **Affordable desktop 3D modeling device & software**

MODELA is the unique combination of hardware and software which enables you to design and produce three dimensional (3D) objects directly from a computer screen. 3D models can be easily designed on screen using the unique software which allows continual changes to be made to the design. Bring your ideas to life with MODELA, easily converting screen images to real 3D objects.

### **MODELA Specific Software**

MODELA Player comes with every MODELA 3D Plotter. MODELA Player was developed specifically for the CAMM-2 and CAMM-3 rotary products by Roland DG Corporation.

## Ideal for Small Scale Modeling and Hobby Applications

MODELA's ease of use and affordable price tag make it suitable for all sorts of small scale projects. Scale models, replicas, miniatures, dolls, name plates, door signs, the possibilities are endless and only limited by your imagination.

MODELA, with its overall small footprint, can be set up beside the computer even though it is a three axis milling machine. 3D control technology is condensed into a neat and compact body. The working volume of MODELA is 6" [152.4 mm] (X-axis) by 4" [101.6 mm] (Y-axis) by 1-9/16" [40.65 mm] (Z-axis). It is suitable for all sorts of small scale applications.

## Safety

MODELA's inclined work table makes it easy to position the work piece so waste material falls neatly to the compartment under the work table. It also places the cutting tool away from user access for additional safety. A transparent enclosure contains waste material while maintaining full visibility of the work in progress.

## MODELA Specifications

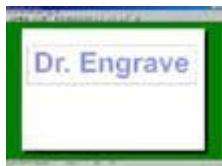
MODEL	MDX-3
TABLE SIZE	6.688 " x 4.313" (170mm x 110mm)
MAXIMUM WORKING AREA (X x Y x Z)	6" x 4" x 1.563" (152.4mm x 101.6mm x 40.65mm)
FEED RATE	0.1mm / sec. - 15mm / sec.
SPINDLE MOTOR	5W (DC Motor)
REVOLUTION SPEED	4500 rpm (+/- 10%)
SOFTWARE RESOLUTION	0.025mm / step
TOOL CHUCK	0.25" dia. (6mm)
INTERFACE	Parallel (Centronics)
DIMENSIONS (W x D x H)	13.813" x 13" x 11.813" (350mm x 330mm x 300mm)
WEIGHT	15.4 lbs. (7kg)
ACCEPTABLE MATERIAL	Foamboard, Jeweler's wax, OBOModulan, Balsawood, ABS, Polyacetal, Styrofoam, other light-weight materials
ACCESSORIES	MODELA Player, MODELA Driver for Windows95, AC adaptor, Spindle unit, Cutting tool, Styrofoam for cutting, Hexagonal wrench, Double-sided tape, User's manual



RSP-009 Distribution Disk with the following utilities included.



3D Engrave uses 2D graphics or bitmaps to generate a 3D relief model. Importing a PIX file from a Roland 3D scanner is also available for creating 3D designs. The models can be viewed in complete 3D and have user-defined resolution settings to determine the final detail. Machining output is performed from within 3D Engrave and contains most of the same features found in MODELA Player. Included with PNC-2300 and 2300A; PNC-300,3000, 3100 and 3200; MDX-3, 15 and 500.




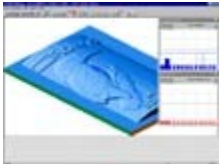
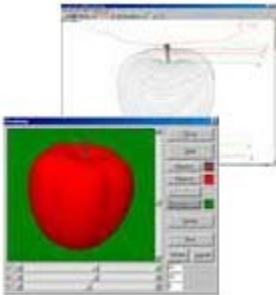

Dr. Engrave features an automatic layout function that allows you to import your Excel - CSV formatted database files for faster engraving output. Dr. Engrave quickly and easily imports your data and optimally lays out your job to fit the material. Automatic serialization is also a built-in feature. One of the true benefits is the ability to convert any Windows True Type font to a single line font for optimal engraving. Included with PNC-2300 and 2300A; PNC-300,3000, 3100 and 3200; MDX-3, 15 and 500.



MODELA 3D TEXT will turn any Windows True Type font into a 3D relief for automatic import to MODELA Player or a 3D DXF file format. Included with PNC-2300 and 2300A; PNC-300,3000, 3100 and 3200; MDX-3, 15 and 500.



Dr. PICZA is a comprehensive, dedicated scanning software. Packed with easy-to-use functions, it can reduce data volume by reducing the resolution of all or part of the captured data, or it can rescan part of the object at a finer scanning pitch and automatically combine it with the original data. Dr. PICZA is designed as an input GUI software controller for any of the PIX series scanners. It supports an array of data output formats including DXF (CAD data), STL 3DMF (3D format standard), gray scale BMP and coming soon, IGES export ability. Included with the PIX-3, 4 and 30; also the MDX-15.

	<p>Dr. STIKA Plus is designed specially for STIKA cutters</p>
	<p>Virtual MODELA enables simulation of finished 3D models and accurately estimates machining production time. Lighting effects, material color or bitmap overlays can be added for accurate finished product representation. Access can be directly achieved from 3D Engrave, MODELA Player or from import of a PRN file. Included with PNC-2300 and 2300A; PNC-300,3000, 3100 and 3200; MDX-3, 15 and 500.</p>
	<p>MODELA 3D DESIGN makes it possible to intuitively create 3D shapes called "objects." An object is created by taking a predefined shape such as a cylinder or sphere and using control rods called "reference lines" to modify the basic shape into the final design. The software also allows adding color for rendering the created shape. Similar to 3D TEXT, files are imported directly to MODELA Player or exported as 3D DXF files. Included with PNC-2300 and 2300A; PNC-300,3000, 3100 and 3200; MDX-3, 15 and 500.</p>
	<p>MODELA Player is a CAM software application that accepts DXF and STL files exported from commercially available CAD/CAM software. It also allows for uniform 3D scaling, selection of milling direction and automatic generation and display of the tool path. Cutting depths and speeds are controlled from a predefined material library or can be set to user-defined specifications. Included with PNC-2300 and 2300A; PNC-300,3000, 3100 and 3200; MDX-3, 15 and 500.</p>

