Desktop Modeling Machine

CAMM-3

Modeling Machine by Roland DG Corporation

Model PNC-3200

The new streamlined CAMM-3 enables direct output of a three-dimensional design in-house.

The product is both cost effective and precise. Its flexibility performs all sorts of CAM solutions from machining production to prototyping and jewelry casting molds to 2D engraving.

Roland's "CAMM-3" is reliable and is equipped with many high-level functions. It is changing three-dimensional modeling in a big way.

The genuine product to support vallue-added businesses

The PNC-3000 Series processing capability is well documented. It has helped companies expand their businesses into new areas, such as jewelry and seal engraving.
Its processing dimensions of 250mm (9-13/16")(X) x 150mm (5-7/8")(Y) x 150mm (5-7/8")(Z) supports three-dimensional engraving of various items such as nameplates and relief sculpture etc.
The included "Dr. Engrave" software enables easy processing of two dimensional work.
The PNC-3200 handles a wide range of materials such as jewelers wax, acrylic resin, acrylic, aluminum, brass, magnesium and stainless steel.

Simple and reliable, perfect for education

The CAMM-3 Series has been used for many years in educational institutions for research and development, for practical training, for learning NC code programming and more. Its easy to use and safety features make it perfect for students to use safely in a learning environment.

Handles a wide range of materials

The superior strength of this product is quite outstanding even compared to our other modeling machines. It can be used with a wide range of materials including resin-type materials, such as ABS, acrylic resin, chemical wood and modeling wax, not to mention light metals, such as aluminum, brass, even magnesium and stainless steel.

Affordable, 3D modeling solution on your desktop

The product comes standard with "MODELA Player*" software as an easy to follow postprocessor.
The unit's control command supports our modeling machine's exclusive languages "RML-1" and "NC code (G-code)". It can be used from 3D CAD/CAM software** of all-purpose machine tools. (Command is selected by a switch when the unit's power is turned on.)

* "MODELA Player" supports Windows 98/95, WindowsNT4.0 and Mac OS.

** Check the product's compatibility with CAD/CAM software with our sales office.

Improved machine design

The PNC-3200 is designed for easy and comfortable use:

- Built-in controller streamlines production by allowing for direct output from popular CAM software packages.
- Remote LCD panel makes it easy to view display data for easy set up.
- Micrometer dial allows for manual movement on any axis.
- The machine also comes standard with a Z0 sensor that makes it possible to automatically set Z origin point.

Software that comes with PNC-3200

MODELA Player

Post processing application that imports 3D DXF and STL format files and generates the necessary machine tool path needed for production.
(The software supports Windows 98/95, Windows NT 4.0 and Mac OS.)

Dr. Engrave

Basic 2D engraving software that is suitable for creating nameplates, labels and other engineering projects.
(The software supports Windows 98/95 and Windows NT 4.0.)
* Dr. Engrave does not support Mac OS.

PNC-3200 Specifications

XY table size	560 mm x 170 mm (22-1/16" x 6-11/16")
Max. cutting area	250 mm(X) x 150 mm(Y) x 150 mm(Z) (9-13/16"(X) x 5-7/8"(Y) x 5-7/8"(Z))
Feed rate	X, Y-axis: Max. 60mm/sec. (1-3/8"/sec.) Z-axis: Max 30 mm/sec. (1-3/16"/sec.)
Software resolution	[When RML-1 has been selected] 0.01 mm/step [When NC code has been selected] 0.001 mm/step
Mechanical resolution	0.00125 mm/step
Spindle motor	180W (AC commutator motor)
Revolution speed	3000-8000 rpm (Variable manually or by the command set)
Positioning accuracy	+-(Movement distance x 0.1%) mm (Under no-load conditions)
Repeat accuracy	+-0.05 mm (Under no-load conditions)
Possible table load weight	8 kg (17.6 lb.) or less, including mounting frame
Tool chuck	Collet system
Interface	Parallel (in compliance with the specification of Centronics)
	Serial (under RS-232C standard)
Buffer size	1 Mbyte (960 Kbyte for replot buffer)
Instruction system	RML-1 (mode1, mode2) or NC codes supported by the PNC-3200 (Selectable through display operation)
Power consumption	2.4 A / 117 V 1.4 A / 220-230 V 1.3 A / 240 V
Dimensions	Main unit: 565 mm(W) x 722 mm(D) x 605 mm(H) (22-1/4"(W) x 28-7/16"(D) x 23-7/8"(H))
	Switch panel: 341 mm(W) x 104 mm(D) x 49 mm(H) (13-7/16"(W) x 4-1/8"(D) x 1-15/16"(H))
Weight	Main unit: 60 kg (132.3 lb.) Switch panel: 1.5 kg (33.1 lb.)
Operation temperature	5-40 deg.Celsius (41-104 deg.Fahrenheit)
Operation humidity	35-80% (no condensation)
Accessories	dia. 6 mm Collet chuck: 1, Collet cap: 1, Z0 position sensor: 1, Power cord: 1, Cable(For connecting the switch panel): 1, Wrenches: 3(17 mm(11/16"), 22 mm(14/16"), 30 mm(1-3/16")), T nuts: 2, USER'S MANUAL: 3(1 Setup & Maintenance, 2 Cutting Using RML-1, 3 Cutting Using NC codes), NC-code PROGRAMMER'S MANUAL: 1, Roland Software Package CD-ROM: 1