

EGX-400/600 Engravers

New Product Information

Overview

I am pleased to introduce the NEW models EGX-400 and 600 engraving machines that will be available in May 2002.

From a sales perspective, the EGX-400 and 600 will expand the Roland presence in the engraving market. These professional level engravers round out our full line of competitively priced engravers. The EGX-400 & 600 are high speed, precision engravers with cutting edge technology.

Mechanically speaking, the EGX-400/600 is belt driven, delivering not only speed, but also pen point accuracy. The EGX-400 has a 12" x 16" x 1.57" work area and EGX-600 has a 16" x 24" x 1.57". Both models have DAC-FFP technology - Feed Forward Processing with digital AC servo motors - to control the movement along the X, Y and Z-axes.

The 30,000 RPM DC brushless spindle motor on the EGX 400/600 is not only high precision, but also it reduces vibration within the unit and produces quality engraving on a variety of materials.

EGX-400/600 is capable of engraving everything from small and simple jobs to large and complex jobs. In addition to speed, power and precision, it also comes with a removable table to accommodate jobs that require the use of a vise or jig. Compatible materials include but are not limited to acrylic, dual-coated micro-thin plastics and light metals such as brass and aluminum. Use the EGX PRO series to create professional badges, nameplates, key rings and luggage tags or even diamond scribe coated brass for trophy plates.

Availability – May 2002

List Price:

EGX-400 \$7,995

EGX-600 \$9,995



Key features

- Max. Operation Area
 - EGX-400 [x] 16" [y] 12" [z] 1.57"
 - EGX-600 [x] 24" [y] 16" [z] 1.57"
- DC Servo Spindle motor: DC brush less motor, max 72W
 - 4 (IPS) Feed Rate: [XY] 1.97 inches/sec, [Z] 1.97 inches/sec
- DAC-FFP control
 - AC Servo motors that are powerful, high speed and precise.
- Removable Table for using a vise or jig
- Surfacing table available
- 30,000 rpm spindle
 - High speed, high quality engraving
- MMC memory card is compatible
 - No PC required after file is designed
 - 128MB
- Surface Detector
- Sequence control I/O Connect several units for a production line

Features

❑ **Software and Drivers**

Easy-to-use engraving software, Dr. Engrave, comes standard with each EGX PRO engraver. Dr. Engrave allows you to use industry standard TrueType fonts. You can also create your own designs, import a Windows bitmap file or Vector Art from Roland (DXF file). Dr. Engrave features an automatic layout function that allows you to create large multiple-plate applications quickly and easily to produce large door-numbering projects or corporate nametags. Software and Window drivers are compatible with Microsoft windows® 95/98/Me/NT4.0, 2000 and XP.

❑ **Multi-Functional, LCD Control Panel and Display**

The simple LCD user display and control panel allows easy, quick setup and a wide variety of functional controls.

❑ **MMC Memory**

Store up to twenty 1000-step data files on the Memory card.

❑ **Re-Plot Function**

Comes with a standard 2 MB data buffer for quick and easy re-plotting.

❑ **Emergency Shut-Off Switch**

In the unlikely event of an emergency, the EGX-400/600 Pro series engravers come with an easily accessible emergency shut-off switch.

❑ **Nose Cone**

The EGX Pro automatically adjusts the cut depth to engrave a continuous depth and locate the Z-axis.

❑ **Removable table**

Table can be removed for special engraving applications requiring the use of a jig or vise.

❑ **Tools**

The EGX-400/600 is compatible with any industry standard 11/64 (4.36mm) tool.

❑ **Sequence control I/O**

Connect several EGX Pro units together and create a professional level production line (8 bit in/out).

❑ **Interface**

Standard RS-232C Serial or Parallel.

❑ **Power Consumption**

Auto voltage sensing AC100/120/220/240V

The EGX-400/600 is available for shipping in May 2002. For any specific questions on this product, please contact Matt Owens, Associate Product Manager – 3D & Engraving Devices at Ext 281 or Mowens@rolanddga.com.

EGX PRO Series Specifications

	EGX-600	EGX-400
Table size	24" x 16" (610mm x 407mm)	16" x 12" (407mm x 305mm)
Max. cutting area	24" x 16" x 1.57" (610mm x 407mm x 42.5mm)	16" x 12" x 1.57" (407mm x 305mm x 42.5 mm)
Acceptable material thickness	1.57" (40 mm)	
XYZ motor	AC servo motor (DAC-FFP)	
Feed rate	XY-axis: 0.5 mm/sec. , 1 ~ 100 mm/sec. Z-axis: 0.5 mm/sec. , 1 ~ 50 mm/sec.	
Acceleration	0.1 G, 0.05 G	
Software resolution	0.01 mm/step	
Mechanical resolution	XY-axis: 0.003 mm/step Z-axis: 0.0025 mm/step	
Spindle motor	DC brushless motor Max. 72 W	
Revolution speed	8,000 ~ 30,000 rpm	
Tool chuck	Cutter holder or Collet system	
Positioning accuracy	± 0.1 % of distance traveled, or ± 0.1 mm, whichever is greater (Under no-load conditions)	
Repeat accuracy	0.002" (0.05 mm)	