

HIGH SPEED ENGRAVING (HSE)

Model: **EGX-600/400**



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 **Roland**[®]



PUT THE PEDAL TO THE METAL. OR PLASTIC. OR WOOD...

Superb Quality, Value and Performance

A host of advanced features make EGX benchtop engravers versatile and easy-to-operate. These computerized engravers enable you to produce a wide variety of applications including 3D reliefs for distinctive signs as well as name plates, awards and trophies, ADA signage, medallions, control panels and much more.

Computerized Engraving Made Easy

A removable MMC memory card¹ can store files programmed on your computer and then be inserted directly into the EGX for engraving without using a PC. A separate teaching feature allows



you to send operating commands directly from the control panel to the machine, also without using a PC. The commands can be saved in the built-in memory or on the removable MMC memory card.

Multiple EGXs can also be linked together in a production line. For fast and simple set-up, an automatic surface detector determines Z-zero when the tip of the nose guard touches the material surface.

¹ Compatible with commercially available Multi Media Card™ or SD Memory Card. Note: You will also need a memory card writer to copy the files from your computer to the cards.

Powerful and Easy-to-Use Engraving Software Package Comes Standard

Included with the EGX-600/400 is a complete suite of engraving software.² Dr. Engrave produces high quality engraving utilizing TrueType fonts. 3D Engrave allows you to produce 3D reliefs. MODELA Player CAM software reads DXF and STL files created with popular 3D CAD programs.³ Virtual MODELA⁴ enables simulation of finished shapes for previewing on your computer screen before beginning production. A Windows® driver is also included.

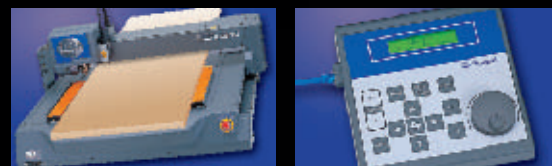
² Compatible with Windows® 95/98/Me/NT 4.0/2000/XP.

³ Will read DXF-AutoCAD_r12J and 3D DXF, but not 2D DXF.

⁴ Virtual MODELA simulates data from 3D Engrave and MODELA Player.

More Winning Advantages

The EGX-600/400 employs a gantry X-axis rail and flat table system which provides space for placing long boards for larger signs. The t-slot, Bakelite table can be surfaced for ultra-precise engraving and can be removed easily when using jigs, vices or larger materials. An optional center vise quickly secures engraving materials. The hand-held control panel can be extended from the machine, allowing you to start or pause a job from a safe distance, and incorporates a jog dial for changing spindle speed or making menu changes.



Benchtop Engravers

EGX-600/400

High Speed Engraving (HSE) with DAC-FFP

Get ready to rev it up. High-speed engraving is here, bringing faster production times and superior quality. And that means higher productivity and increased profit margins. Roland's EGX-600/400 benchtop engravers employ Feed Forward Processing (FFP), an advanced controller technology that anticipates tool movement. The industry-first combination of FFP, belt drives, and digital AC Servo (DAC) brushless motors on the X, Y and Z axes results in unmatched precision, speed, reliability and energy efficiency. In addition to faster cutting, the high-speed spindle and brushless DC motor produce increased torque with less vibration. Spindle speed can be varied between 8,000 and 30,000 rpm for engraving a wide variety of materials, including wood, urethane foam, plastic, acrylic, and light metals such as brass and aluminum.



3D Reliefs



Distinctive 2D Signage



Nameplates and ADA Signage



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Benchtop Engravers **EGX-600/400** SPECIFICATIONS

Table type	EGX-600	T slot	EGX-400
Table size	610 (W) x 407 (D) mm (24 (W) x 16 (D) in.)		407 (W) x 305 (D) mm (16 (W) x 12 (D) in.)
Cutting area	610 (X) x 407 (Y) x 42.5 (Z) mm (24 (X) x 16 (Y) x 1-5/8 (Z) in.)		407 (X) x 305 (Y) x 42.5 (Z) mm (16 (X) x 12 (Y) x 1-5/8 (Z) in.)
Loadable workpiece thickness	Maximum 40 mm (1-9/16 in.)		
XYZ-axis motor	AC servo motors (DAC-FFP), 3-axis simultaneous control		
Feed rate	XY-axis: 0.5, 1 to 100 mm/s (0.02 in./s, 0.039 to 3.9 in./s) Z-axis: 0.5, 1 to 50 mm/s (0.02 in./s, 0.039 to 1.9 in./s)		
Acceleration	0.1 G, 0.05 G		
Software resolution	0.01 mm/step (0.00039 in./step)		
Mechanical resolution	XY-axis: 0.003 mm/step (0.00012 in./step) Z-axis: 0.0025 mm/step (0.000098 in./step)		
Spindle motor	DC brushless motor, Maximum 72 W		
Spindle speed	8,000 to 30,000 rpm		
Tool chuck	Cutter holder (4.36 mm) and collet		
Positioning Accuracy	0.1 % of distance traveled or 0.1 mm (0.004 in.), whichever is greater (no-load operation)		
Repeatability	0.05 mm (0.002 in.) or less		
Interface	Parallel connector (Centronics-compliant), serial connector (RS-232C-compliant), Memory card slot (Compliance with Multi Media Card), expansion connector 1, expansion connector 2		
Buffer memory	2MB (replot buffer: 1.9MB)		
Instruction system	RML-1 (mode 1, mode 2)		
Power supply	AC 117 V, 230 V, 240 V 10 %, 50/60 Hz		
Power consumption	3.5 A at 117 V, 1.6 A at 230 V, 1.6 A at 240 V		
Acoustic noise level	No-load operation: 75 dB (A) or less standby: 45 dB (A) or less (According to ISO 7779)		
Dimensions (main unit)	995 (W) x 820 (D) x 521 (H) mm (39-3/16 (W) x 32-5/16 (D) x 20-1/2 (H) in.)		795 (W) x 719 (D) x 521 (H) mm (31-5/16 (W) x 28-5/16 (D) x 20-1/2 (H) in.)
Weight (main unit)	64 kg (141 lb.)		51 kg (112 lb.)
Operating environment	Temperature: 5 to 40 C (41 to 104 F) humidity: 35 to 80 % (no condensation)		
Accessories	Operation panel: 1, Operation-panel connector cable: 1, Power cord: 1, Depth regulator nose unit: 1, Solid collet : 1, Clamps : 4, Roland Software Package CD-ROM : 1, User's Manual: 1		

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