

# EGX-360

ROTARY GIFT ENGRAVER

CKY HARBOR  
ORGANIC VINEYARD  
Harvest Celebration  
2008

DRAGON MARBLE  
Kareem & Jessica  
Berlin  
December 1989

Imagine.

 Roland®



# EGX-360

## Key features and benefits

### Highly versatile operation

- Engraves a wide range of items
- Extensive fixture options secure a variety of products: glassware, bottles, vases, tankards, goblets, flasks, watches, rings, pens, plaques, trophy cups, trophy shields, corporate gifts such as flasks and lighters, signs, control panels
- Engraves curved, flat, domed and other irregular surfaces
- Engraves a wide range of materials: glass, metals – such as gold, silver, stainless steel (scribing only), brass, aluminium – resinous materials such as acrylics, plastics, laminates and wood

### Powerful and ultra-precise engraving

- Wide range of specific engraving functions, including
  - cylindrical engraving
  - glass engraving
  - inside/outside ring engraving
  - flat surface single and batch engraving
- Automatic surface detection for easy operation, even on undulating surfaces
- Fine designs (0.0025 mm X/Y axes; 0.00125 mm Z axis)
- Superb hand-carved effects with V-Carve mode
- Variable, controlled depths into many materials (such as wood), unlike laser and sand blast engraving
- Engraving area (flat surface mode): 305 x 230mm
- Engraving area (cylindrical engraving mode): 180mm diameter x 305mm length (maximum opening 470mm between vice jaws)

### Easy to use and operate

- Connects to a PC via a USB port
- Simple hand-held remote control panel
- Intuitive software interface allows professional operation with minimum training, including generating V-carve tool paths from 2D images
- Full preview function helps eliminate errors, saving time and materials
- Laser pointer system dramatically reduces mistakes and simplifies operation

### Clean and safe - ideal for retail environments

- Unique machine cover sets new engraving sector safety standard
- Dust-proof hood enables clean, dust-free engraving
- Dust collecting tray simplifies cleaning process
- Built-in water coolant and dust removal means no additional cleaning between jobs
- Filters remove glass particles

### Software included as standard

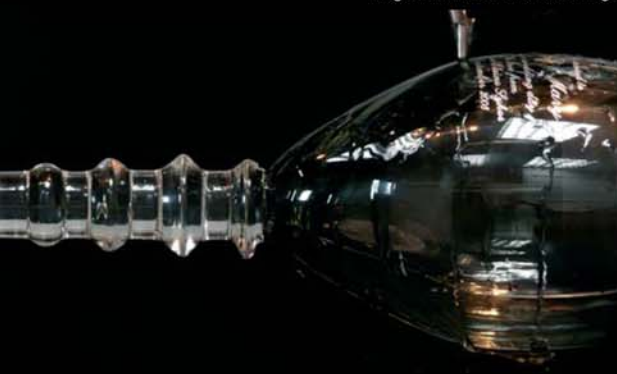
The EGX-360 comes complete with 4 software packages: Roland Engrave Studio, Dr. Engrave, 3D Engrave and Virtual MODELA.

Roland Engrave Studio key features:

- Easy to operate, intuitive interface
- Batch production options for increased productivity
- Preview function for proofing work and reducing mistakes, saving time and materials
- V-carve mode to achieve hand carved effects
- Comprehensive drawing tools
- Compatible with vectored AI, EPS, DXF and PDF files
- Sophisticated vectorising capabilities with colour reduction options for BMP, JPG, GIF, TIF and PNG files



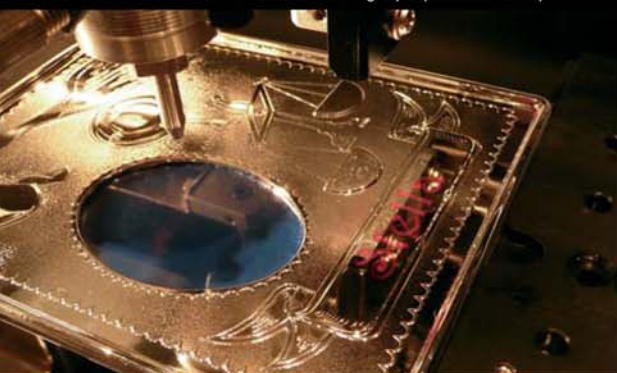
Engrave inside and outside rings



Safe and simple glass engraving with water coolant and dust removal



Included flat table ideal for larger plaques and batch production



Laser enables quick sizing and positioning of engraving\*



Full preview function helps make errors a thing of the past

\* Long exposure image illustrates the laser tracking the engraving tool-path



# Personalise gifts

Despite what advertisers say, gifts are not necessarily valued on their own, but the meaning behind them is. When even expensive gifts are readily available and mass-produced, much of this individual meaning is lost. Personalising them with simple messages, pictures or symbols creates unique, memorable gifts.

For retailers, having tools at the point of sale to personalise gifts is the simplest way to improve customer service and increase the value of a sale. The EGX-360 gift engraver is designed to work in retail environments - on either side of the counter - and has the power to transform ordinary gifts into treasured keepsakes.

Capable, versatile and simple to use, the EGX-360 can engrave a wide range of materials in a variety of shapes and sizes. It is the ideal machine to help grow gift engraving or jewellery businesses.



# Produce trophies, awards and corporate gifts

The EGX-360 is an ideal fit for businesses producing trophies, awards and corporate gifts.

Able to engrave a wide variety of materials, the EGX-360 can handle flat, curved, cylindrical, domed and other irregular surfaces, making it perfect for glassware, bottles, vases, tankards, goblets, flasks, watches, pens, plaques and corporate gifts.

The software's productivity tools and large, included flat table make it ideal for batch production. The advanced preview and proofing mode dramatically reduces costly mistakes, while the high quality digital proofs can also be used for case studies and sales demonstrations.





# Enhance jewellery, glass and silverware

For jewellers, engraving products with the EGX-360 is a simple way to provide extra service to customers and generate additional income. Easy to use, the EGX-360 simplifies the engraving process and allows engraving to be brought in-house.

The EGX-360 can engrave and enhance virtually anything jewellers sell, from rings (interior and exterior), goblets and flasks to picture frames, clocks and watches. The bundled software is intuitive and easy to use with many creative features, including V-carving to mimic hand engraving and sophisticated conversion options for logos and hand written messages.

The EGX-360 is particularly suited to engraving glass as its water-lubricated engraving mode ensures perfect results and clean and safe operation every time.



# EGX-360

A complete engraving system for personalising gifts, trophies and jewellery



The EGX-360 engraves complex designs onto curved, cylindrical, domed, flat and irregular surfaces. It engraves glass, acrylics, laminates, woods, metals and many other materials.

Its combination of power and precision enables the production of sharp, clear graphics every time. The EGX-360 is engineered for continuous use and simple maintenance for maximum productivity and increased profit.

The EGX-360 is very clean and safe to operate, making it ideal for engraving in both retail and workshop environments. It is easy to use, ready to work straight out of the box and comes complete with everything required to start engraving.

With training and assistance delivered by an international dealer network supported by the manufacturer, the EGX-360 engraving package sets a new standard for professional engravers worldwide.

Roland DG products that feature this environmental label meet the company's criteria for environmental consciousness, a set of standards based on ISO 14021 self-declaration type II. For more information, please visit [www.rolanddg.com](http://www.rolanddg.com).



#### ISO 14001:2004 and ISO 9001:2008 Certified

Roland pursues both environmental protection and continuous quality improvement. Under the philosophy of preserving the environment and human health, Roland is actively working to abolish organic solvents in production, to reduce and recycle waste, to reduce power use, and to purchase recycled products. Roland constantly strives to provide the most highly reliable products available.



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## A quick guide to tools for specialist engraving

Key: ☐ A gray square indicates a tool is included with the EGX-360  
☒ A black square indicates a tool that must be purchased separately




### TOOLS FOR METAL ENGRAVING

<input type="checkbox"/> Diamond scraper  <p><b>ZDC-A4000</b> Diameter 4.36 mm, included item</p>	<input type="checkbox"/> Solid collet  <p>4.36 mm diameter, included item</p>
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### TOOLS FOR GLASS ENGRAVING

<input type="checkbox"/> Water nose attachment  <p>Included item</p>	<input type="checkbox"/> Nose unit  <p>Included item</p>	<input type="checkbox"/> Solid collet  <p>Diameter 3.175 mm, included item</p>	<input checked="" type="checkbox"/> Rotating diamond cutter  <p><b>ZDC-A2000R</b> Diameter 3.175 mm, optionally available</p>	<input checked="" type="checkbox"/> Burnishing attachment  <p><b>ZB-20</b> Optionally available</p>
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### TOOLS FOR RING ENGRAVING (INSIDE)

<input checked="" type="checkbox"/> Ring chuck unit  <p><b>ZRC-36</b> Optionally available</p>	<input checked="" type="checkbox"/> Tool holder  <p><b>ZTH-36</b> Optionally available</p>	<input checked="" type="checkbox"/> Inside ring drag diamond  <p><b>ZDC-N8000</b> Optionally available</p>
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### TOOLS FOR RING ENGRAVING (OUTSIDE)

<input type="checkbox"/> Solid collet  <p>Diameter 3.175 mm, included item</p>	<input checked="" type="checkbox"/> Diamond scraper  <p><b>ZDC-A2000</b> Diameter 3.175 mm, optionally available</p>	<input checked="" type="checkbox"/> Ring chuck unit  <p><b>ZRC-36</b> Optionally available</p>	<input checked="" type="checkbox"/> Burnishing attachment  <p><b>ZB-20</b> Optionally available</p>
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## Options: Cutters, collets and spindles

Item	Model number	Description
Engraving cutters (for plastic)	ZEC-A2013	Cemented carbide dia. = 3.175 x 114 (L) x 0.127 (W)
	ZEC-A2025	Cemented carbide dia. = 3.175 x 114 (L) x 0.254 (W)
	ZEC-A2051	Cemented carbide dia. = 3.175 x 114 (L) x 0.508 (W)
	ZEC-A2076	Cemented carbide dia. = 3.175 x 114 (L) x 0.762 (W)
	ZEC-A4013	Cemented carbide dia. = 4.36 x 165 (L) x 0.127 (W)
	ZEC-A4025	Cemented carbide dia. = 4.36 x 165 (L) x 0.254 (W)
	ZEC-A4051	Cemented carbide dia. = 4.36 x 165 (L) x 0.508 (W)
Engraving cutters (for aluminium or brass)	ZEC-A2013-BAL	Cemented carbide dia. = 3.175 x 114 (L) x 0.13 (W)
	ZEC-A2025-BAL	Cemented carbide dia. = 3.175 x 114 (L) x 0.25 (W)
	ZEC-A4013-BAL	Cemented carbide dia. = 4.36 x 165 (L) x 0.13 (W)
	ZEC-A4025-BAL	Cemented carbide dia. = 4.36 x 165 (L) x 0.25 (W)
	ZEC-A4051-BAL	Cemented carbide dia. = 4.36 x 165 (L) x 0.508 (W)
Parallel engraving cutters (for plastic)	ZEC-A2150	Cemented carbide dia. = 3.175 x 114 (L) x 1.52 (W)
	ZEC-A2190	Cemented carbide dia. = 3.175 x 114 (L) x 1.91 (W)
	ZEC-A2230	Cemented carbide dia. = 3.175 x 114 (L) x 2.29 (W)
	ZEC-A2320	Cemented carbide dia. = 3.175 x 114 (L) x 3.175 (W)
	ZEC-A4150	Cemented carbide dia. = 4.36 x 165 (L) x 1.52 (W)
	ZEC-A4190	Cemented carbide dia. = 4.36 x 165 (L) x 1.91 (W)
	ZEC-A4230	Cemented carbide dia. = 4.36 x 165 (L) x 2.29 (W)
	ZEC-A4320	Cemented carbide dia. = 4.36 x 165 (L) x 3.175 (W)
	ZEC-A4380	Cemented carbide dia. = 4.36 x 165 (L) x 3.81 (W)
	ZEC-A4430	Cemented carbide dia. = 4.36 x 165 (L) x 4.34 (W)
	ZEC-A2013-QR	Cemented carbide dia. = 3.175 x 114 (L) x 0.13 (W)
	ZEC-A2025-QR	Cemented carbide dia. = 3.175 x 114 (L) x 0.25 (W)
	ZEC-A4013-QR	Cemented carbide dia. = 4.36 x 165 (L) x 0.13 (W)
Quarter round cutters (for plastic)	ZEC-A4025-QR	Cemented carbide dia. = 4.36 x 165 (L) x 0.25 (W)
	ZEC-A4051-QR	Cemented carbide dia. = 4.36 x 165 (L) x 0.508 (W)

dia = shank diameter, L = overall length, W = blade width, unit = mm

Item	Model number	Description
Diamond scrapers	ZDC-A2000	Diamond dia. = 3.175 x 127 (L)
	ZDC-A4000	Diamond dia. = 4.36 x 178 (L) Only operates with the ZC-E436 collet
Diamond cutter	ZDC-A2000R	Diamond dia. = 3.175 x 127 (L)
Inside ring drag diamond	ZDC-N8000	
Square end-mill	ZHS-100	High speed steel dia. = 1 3 (ℓ) x 6 (d) x 50 (L) x 2NT
	ZHS-200	High speed steel dia. = 2 6 (ℓ) x 6 (d) x 50 (L) x 2NT
	ZHS-300	High speed steel dia. = 3 10 (ℓ) x 6 (d) x 50 (L) x 2NT
	ZHS-400	High speed steel dia. = 4 12 (ℓ) x 6 (d) x 50 (L) x 2NT
	ZHS-500	High speed steel dia. = 5 15 (ℓ) x 6 (d) x 55 (L) x 2NT
	ZHS-600	High speed steel dia. = 6 15 (ℓ) x 6 (d) x 55 (L) x 2NT
Ball end-mill	ZCB-150	Cemented carbide R1.5 25(ℓ) x 2.4(Lc) x 65(L) x 6(d) x 2NT
	ZCB-200	Cemented carbide R2 25(ℓ) x 3.2(Lc) x 70(L) x 6(d) x 2NT
	ZCB-300	Cemented carbide R3 30(ℓ) x 4.8(Lc) x 80(L) x 6(d) x 2NT

dia = flute diameter, R = flute radius, ℓ = flute length, Lc = blade length,  
L = overall length, d = shank diameter, NT = number of flute, unit = mm

Item	Model number	Description
Collets for end-mill	ZC-23	Diameter 6mm, 5mm, 4mm, and 3mm collets: 1 pc. each
	ZC-23-3	Diameter 3 mm collet: 1 pc.
	ZC-23-4	Diameter 4 mm collet: 1 pc.
	ZC-23-6	Diameter 6 mm collet: 1 pc.
	ZC-23-3175	Diameter 3.175 mm collet: 1 pc.
	ZC-23-6.35	Diameter 6.35 mm collet: 1 pc.
Collet for ZDC-A4000	ZC-E436	Diameter 4.36 mm collet: 1 pc.
Nose cone	ZDN-200	Inner diameter 2mm outer diameter 4.2mm for engraving text
Spindle unit	ZS-35	
Adhesive sheet for securing material	AS10	210 mm x 140 mm (8-1/4 in. x 5-1/2 in.), 10 sheets

# Product specifications

## Main Unit Specifications

Workpiece-table size	Width x depth: 305 x 230 mm (12 x 9.1 in.)
Cuttable materials: Flat engraving and cylindrical engraving	Acrylics, aluminum, brass, stainless steel (diamond engraving only) and glass <sup>(*)1</sup>
Cuttable materials: Ring engraving (inner or outer surface) <sup>(*)2</sup>	Gold, brass and silver, etc.
Loadable workpiece weight (when using the motorized vise jaw)	4.3 kg (including the weight of jig)
X, Y, and Z operation strokes	X, Y, and Z: 305 x 230 x 40 mm (12 x 9.1 x 1.6 in.)
Maximum angle of rotation	$\pm 18 \times 10^5$ ° ( $\pm 5000$ rotations) During engraving: $\pm 360$ °
X-, Y-, Z-, and A-axis drive system	Stepping motor
Operating speed	X and Y axes: 0.1 to 60 mm/sec. (0.004 to 2.4 in./sec) Z axis: 0.1 to 30 mm/sec. (0.004 to 1.2 in./sec) A axis: 9rpm
Software resolution	0.01 mm/step or 0.025 mm/step (0.0004in./step or 0.001in./step)
Mechanical resolution	X and Y axes: 0.0025 mm/step (0.0001 in./step) Z axis: 0.00125 mm/step (0.00005 in./step) A axis: 0.045°
Spindle motor	Brushless DC motor, maximum 50 W
Spindle speed	5,000 to 20,000 rpm
Tool chuck	Cutter holder, collet method
Loadable workpiece thickness (when using the flat table)	Maximum 80 mm (3.1 in.) (78 mm (3.0 in.) when nose unit is used)
Interface	USB (compliant with Universal Serial Bus Specification Revision 1.1); Serial (RS-232C-compliant)

(\*)1 Cutters or attachments available separately are required.

(\*)2 Jigs and cutters available separately are required.

Internal memory	4 MB
Control command set	RML-1
Required power-supply	Voltage and frequency: AC 100 to 120 V/220 to 240 V $\pm 10\%$ , 50/60 Hz (overvoltage category II, IEC 60664-1); Required power capacity: 1.9 A (100 to 120 V)/0.8 A (220 to 240 V)
Power Consumption	80 W
Operating noise	During operation: 60 dB(A) or less (when not cutting), during standby: 40 dB(A) or less (as specified by ISO 7779)
External dimensions	Width x depth x height: 755 x 639 x 675mm (29.8 x 25.2 x 26.6in.)
Weight	84 kg (186 lb)
Installation Environment	Operating environment: Temperature of 5 to 40°C (41 to 104°F), 35 to 80% relative humidity (no condensation) Ambient pollution degree: 3 (as specified by IEC 60664-1)
Included items	Power cord, depth regulator nose (nose unit), nose-unit retainer (retaining screw, spring), diamond scraper (diameter 4.36 mm), flat table, spare mounting screw (for the cutter holder), wrench, solid collet for diamond scraper (diameter 4.36 mm), solid collet (diameter 4.36 mm), solid collet (diameter 3.175 mm), Cylindrical-engraving adapter, cup cones, face plates, Standard jigs, Pen jigs, water nose attachment, faceplate mounting screws, standard-jig retaining screw, pin jigs, flat-table securing screw, hexagonal screwdriver, hexagonal wrench, handy panel, adhesive sheet, lubricant filter, vacuum adapter for chip cleaning, Dust tray, USB cable, Roland Software Package CD-ROM, Roland EngraveStudio CD-ROM, Roland EngraveStudio Software Guide, and EGX-360 Startup and Maintenance Guide

## System specifications

System requirements	
Operating system	Windows Vista® (32 bit edition), Windows® XP and Windows® 2000 (Internet Explorer 4.0 or later required)
Processor	The minimum required CPU for the operating system
Memory	The minimum amount of required RAM for the operating system (1 Gbytes or more recommended)
Optical drive	CD-ROM drive
Free hard-disk space required for installation	25MB

System requirements for USB connection	
Computer	Computer model preinstalled with Windows Vista® (32 bit edition), Windows® XP and Windows® 2000 or upgraded computer originally preinstalled with Windows® 2000 or later
USB Cable	Use the included USB cable



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Printed in Japan. RDG-416069099 10 DEC C-2 AT-S

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