Engraver Product Overview

Rick Rivera
Application Engineer – Engraving & Cutter Solutions
Roland ASD

Roland

EGX-400/600
Professional Benchtop Engravers

Roland

Price & Size

EGX- 400/600
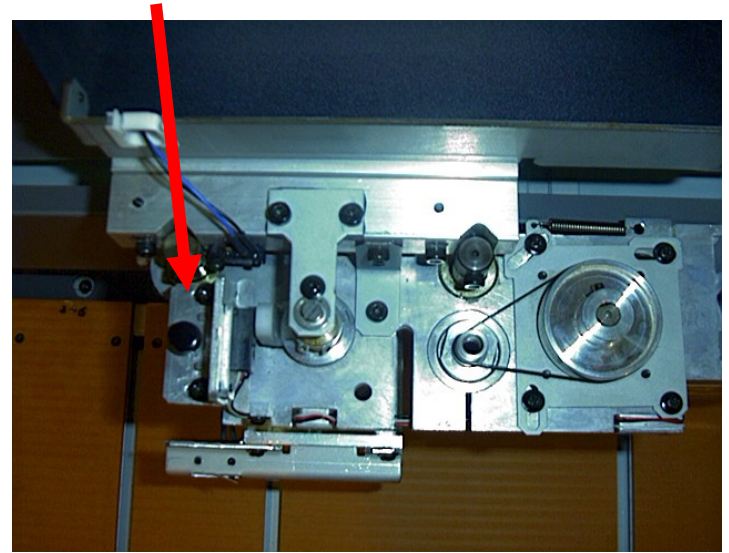
12" x 16" x 1.57"
$9,995.00 (EGX-400)
16" x 22" x 1.57"
$11,995.00 (EGX-600)

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EGX-400/600 Features

- Extraordinary speed and quality at a breakthrough price

- DAC-FFP control for power, speed and high precision

- Surfacing available Table

- 30,000 rpm spindle for high speed, high quality engraving

- MMC memory card compatible
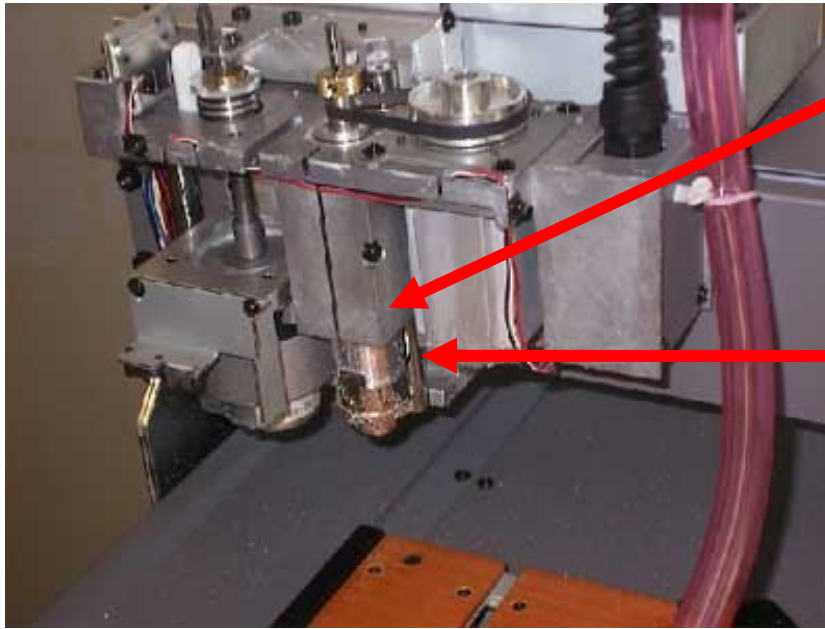
- Remote Control panel

- Surface Detector

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Surface Detector

Detects the position of the tip of nose guard where it touches the material surface for simple and fast setup

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DAC-FFP Control

DAC-FFP is an innovative technology using Feed Forward Processing and AC Servo Motors to produce very accurate movement along the X, Y and Z-axes

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30000 RPM Spindle

DC Brushless motor

Original Spindle

Eliminates replacing brushes at 2000 hours and requires less maintenance
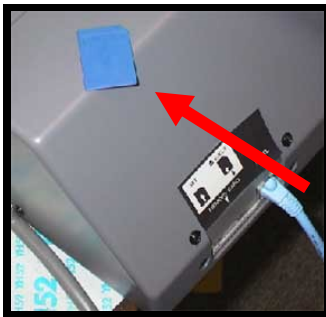
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Removable Surfacing Table

Guarantees flat even surface

Protects Engraver bed

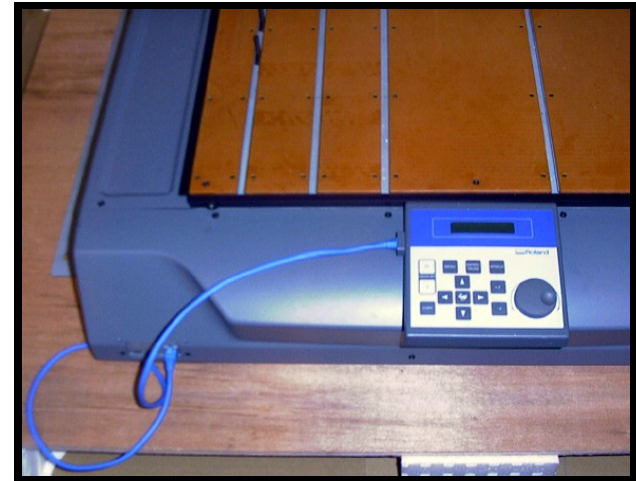Allows use of vise, jigs, etc.

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SD/MMC Memory Card

• Store hundreds of jobs on standard SD/MMC Memory cards

• Eliminates need for PC after file is designed

• Unlike DRAM and SRAM-type flash memory, MMC cards are nonvolatile and retain data even when the power is turned off (similar to a hard drive)
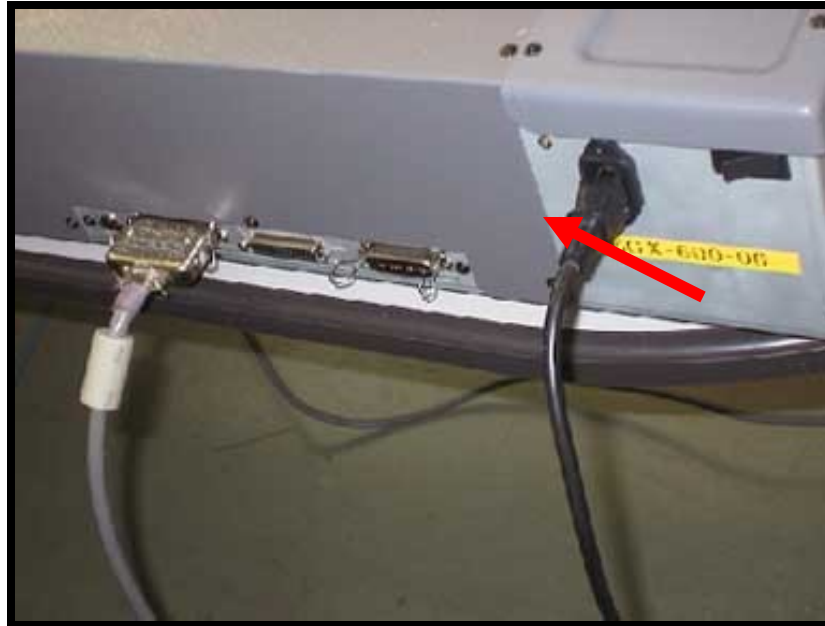
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Teaching Function

• Allows you to operate the engraver without using a computer by using the operation panel to enter instructions. Each instruction is called a "command" and a collected set of commands is called a "sequence."

• You can save sequences in the built-in memory or on a memory card.

• Once you have entered a sequence, the machine can operate the instructions whenever you like without using a PC.

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Remote Control Panel

Allows you to remain a safe distance away from the engraver and still have the ability to pause, start or stop jobs, etc.

Sequence control I/O

The Sequence control allows an EGX-400/600 to be connected with another EGX machine or an entire production line for high volume output. (8 bit In/Out)

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Applications

2D engraving
- •Name tags
- •Trophies
- •Luggage tags
- •Professional badges

3D engraving
- •3D reliefs

EGX-20
Desktop Engraver

Roland

Price & Size

EGX- 20

8" x 6"x 1.25"

$2495.00

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EGX-20 Features

• Professional results from **compact, low-priced engraver**

•Easy to use control panel with intuitive push buttons

•AST (Active Surface Tracking System) helps prevent scratching the work surface and produces economical tool-movement (up/down)

•15000 rpm spindle for high speed quality engraving

•3D Engraving with detachable nose cone

•Quiet Operation is ideal for office environment

•Advanced functionality for entry level engraver

Easy to use control panel

Joy stick control (X,Y,Z)

Spindle Speed
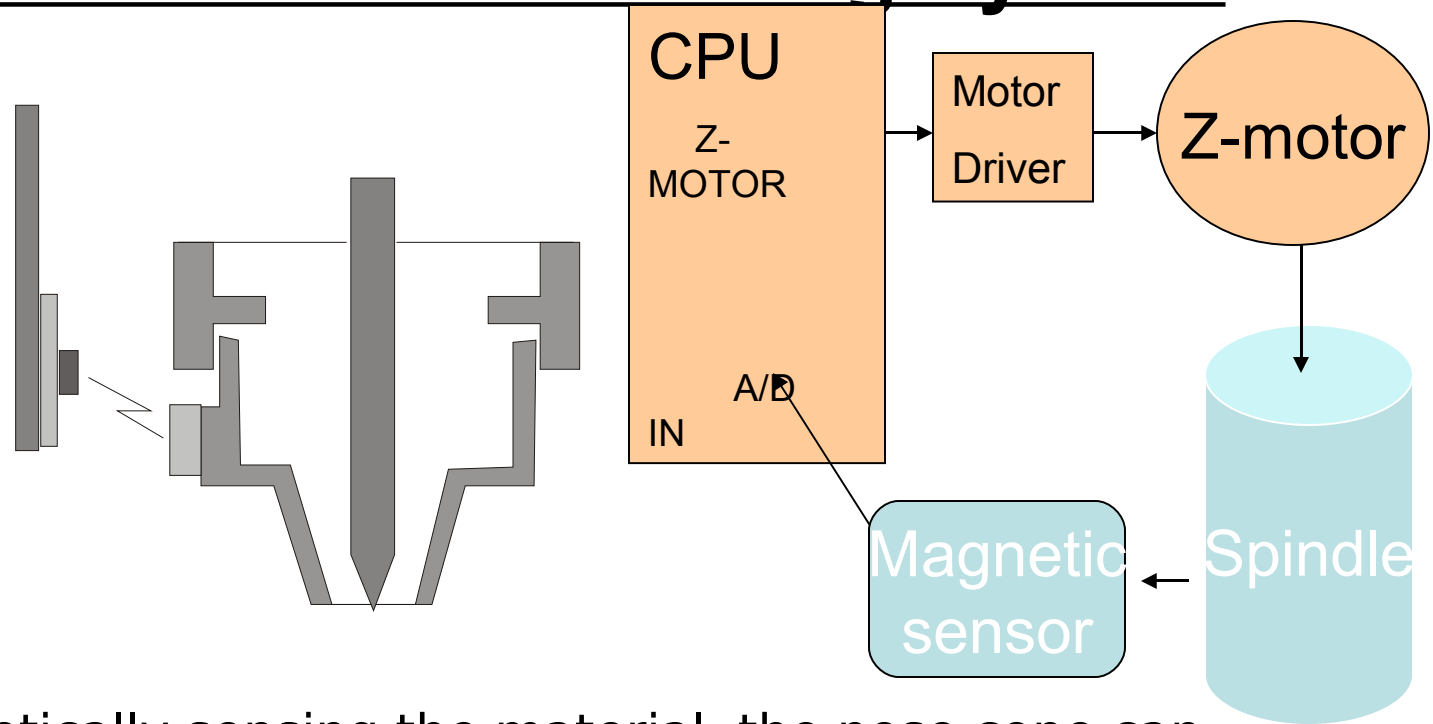
X,Y Speed

Power Switch

View

Origin

Provides simple, quick setup for the beginner.

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AST System
Active Surface Tracking System

CPU

Z-MOTOR

Motor Driver

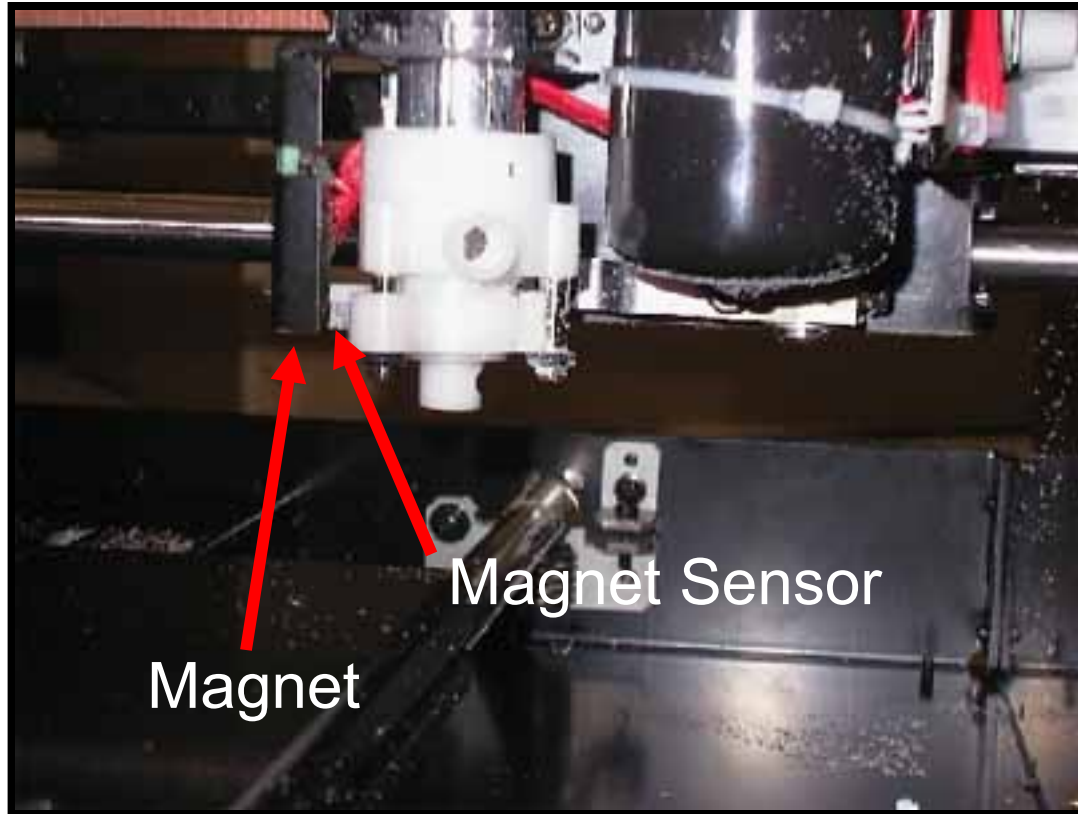Z-motor

A/D IN

Magnetic sensor

Spindle

By magnetically sensing the material, the nose cone can maintain a constant engraving depth even on an irregular surface.

The Active Surface Tracking System constantly senses the material surface for economical up/down tool movement.

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AST System

Active Surface Tracking System

EGX-30
Entry Level Engraving

The EGX-30 is an entry level engraving machine which enables users to engrave small to medium sized production jobs at a great value.

Size & Price

8" x 12"x 0.25"

$2,995.00

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Features

- 8" x 12" x 0.25" work area

- 5-10,000 RPM manual select spindle speed

- Parallel or Serial connection

- Accommodates 1/8" tool diameter *ONLY*

- Weighs only 35 lbs

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<u>Easy-to-use</u>

<u>Control panel:</u>

Speed and spindle revolution can be altered even during the operation

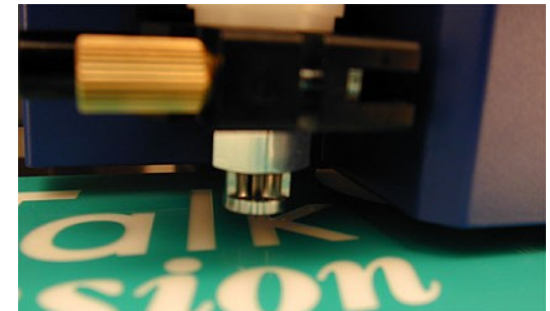<u>Depth regulator nose guard:</u>

Nose guard, convenient for engraving name plates, comes standard

<u>Connectivity:</u>

Can be connected through a serial or parallel port

<u>Software:</u>

Easy-to-use Dr. Engrave engraving software included

Built with precision. Backed with passion.

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Applications

- Plate

- Name tag

- Trophy brass

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EGX-300 Desktop Engraver

- 9" x 12"x 1" work area
- 5-15,000 RPM Manual select spindle speed
- Parallel or Serial connection
- Accommodates 1/8" or 11/64" tool diameter
- 1 MB Re-plotting buffer
- Front cover with pause-interlock switch for safe and quiet operation
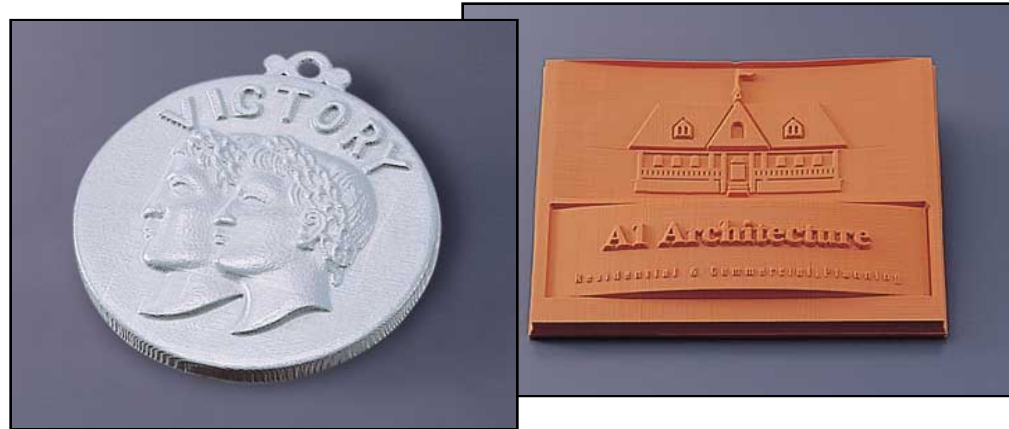- Weight 62.8 lbs.

Applications

2D engraving

- Name plates, name tags
- Cups, trophies
- Serial plates, switch boards

3D engraving

- 3D reliefs

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Features

- Integrated 2D and 3D engraving functions

- Superior basic performance

- Accepts a wide variety of materials

- Engraving software comes standard

- Ensures safe operation

2D and 3D engraving functions integrated

Suitable for a variety of applications, including not only speedy flat engraving, but also high-quality solid engraving.

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Accepts wide variety materials

- Acrylics, Plastics

- Brass, Aluminum

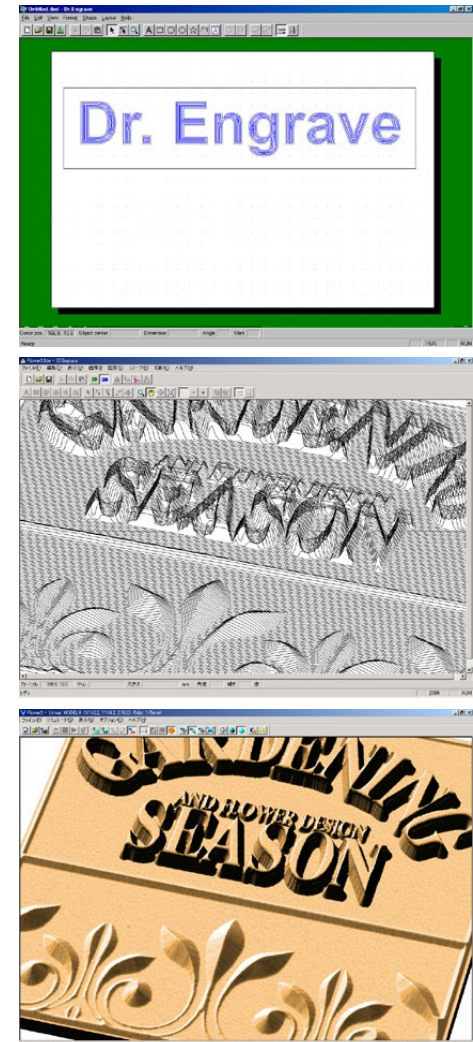- Chemical wood, ABS

Engraving Software Included

Dr. Engrave

·Provides high-quality engraving utilizing TrueType fonts

3D Engrave

·Produces 3D reliefs via 3-axis control

Virtual MODELA

·Enables simulation of finished shapes on screen

Roland

Supplies & Options

ZV-23C Center vise

- Secures material tightly
- 2 kinds of chucks for plate and pen tube included

ZV-23A Vacuum table

- Vacuum floor table for easily fixing materials
- Vacuum area ： 9"(W) x 9.05"(D)
- Acceptable material thickness ： Max 0.787"

ZM-23 Spindle motor

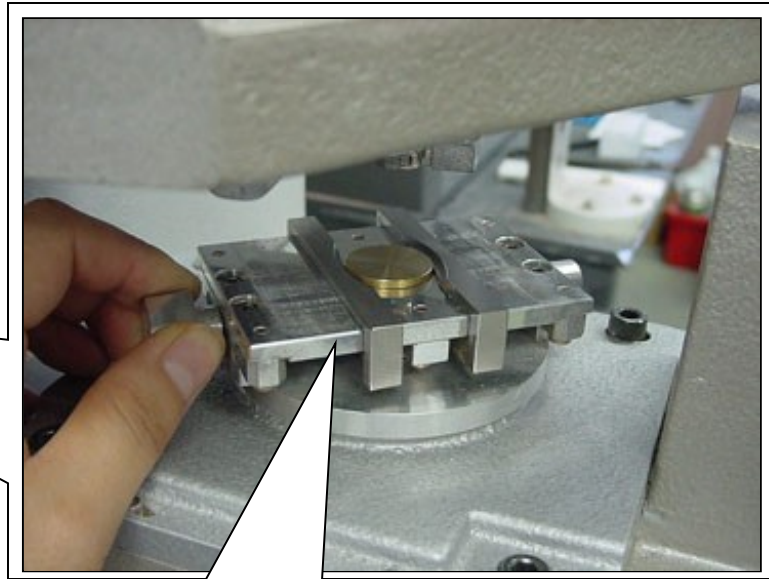- Standard life cycle ： Approx 2,000 hours

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RX-50 Spiral Axis Engraver

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<u>Features</u>

- RX-50 is the Spiral Axis Engraver which can engrave light metal, resin, wax etc. with speed and precison.

- Spiral tool path and unique movement produces fast and high quality engraving.

- Bundled software helps you to make 3D relief data with ease.

- Maximum material size is 2 inches.

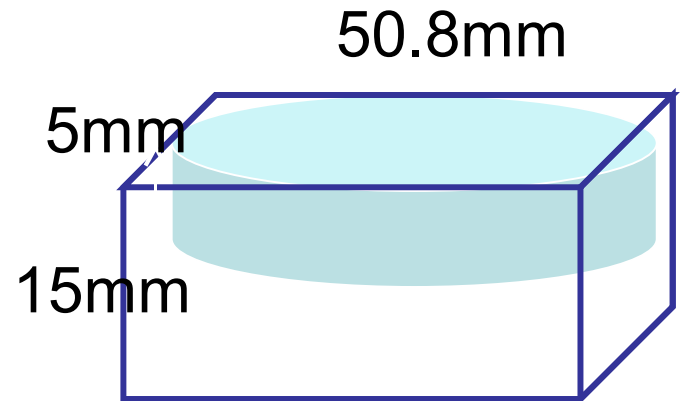- Can engrave 20mm coins in approximately 5 minutes.

Features

Spiral Axis Table

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Specification

- **Maximum Spindle Speed:** 50,000RPM
- **Engraving Area:**
  - XY: Max. Dia. 50.8 mm (2")
  - Z: Max. Depth 5 mm
- **Material Size:**
  - Max. Dia. 50.8 mm (2")
  - Thickness 1-15 mm
- **Interface:**
  - USB 1.1

50.8mm

5mm

15mm

Specification

Cutting Time:
This depends on the combination of cutting mode, design, diameter,
cutting depth, etc. Below are examples of cut times based on parameters.

Normal
Dia.: 51mm
Depth : 1mm
Time : 90 minutes
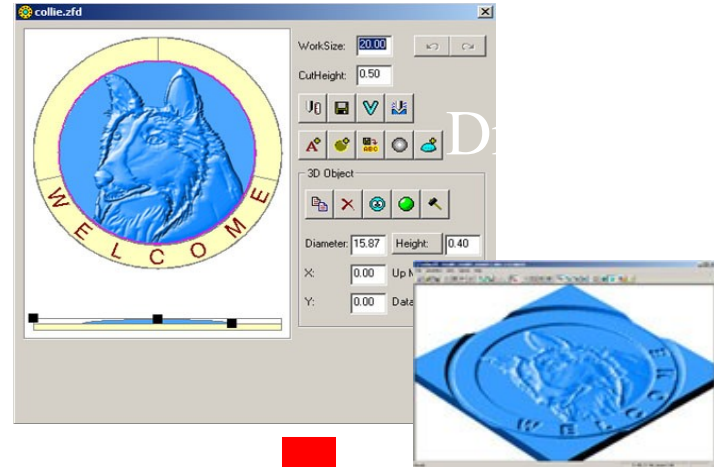

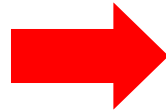Normal
Dia.: 35mm
Depth : 3.8mm
Time : 80minutes

Normal
Dia.: 20mm
Depth : 0.5mm
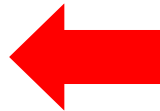Time : 10minutes

Flow of creating 3D Relief with RX-50

Photo or Illustration in JPEG or Bitmap format.

RX-50

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Thank You

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