

Multipurpose Desktop Engraving Machine

## MAGIC™-S4





## Multipurpose Desktop Marking machine, Magic™-S4

Magic™-S4 is a marking machine for flat-type materials in different sizes. The third-generation multipurpose desktop marking machine comes with revolutionary changes in its functionality, structural stability, performance, and design. The single set of machine is designed to deal with all complex aspects peculiar to labels, name tags, and nameplates, and materials for anyone to easily and quickly utilize for multiple purposes –marking of signage, souvenir, promotional materials, industrial name plate/parts, etc.

Magic™-S4 is easy and simple to use and provides a wide range of functions and powerful performance to meet different customer needs. The medium-sized multipurpose engraver’s modern design is aesthetically pleasing and looks nice in any place

### Key Points

- Mark gold, silver, brass, aluminum, stainless steel, aluminum various kinds of plastics, wood, etc.
- Comes with wide work range, making it possible to engrave on large-scale materials.
- High-quality marking on specular surfaces using a dedicated diamond tool.
- Intuitive and simple control of engraving position based on the embedded camera and laser.
- Automatically measures the height of the material .
- Cost-efficient maintenance with low supplies cost.
- Small-sized and easy and simple for anyone to use.
- Comes with MagicEngrave™ software that supports easy and quick marking.

### Marking Materials

- Various plated materials
- Plastics, glasses
- Common metals such as brass, aluminum, steel, and stainless steel

### Uses

- Marking of name plates
- Metal marking
- Marking on cosmetic/perfume cases
- Marking of souvenirs
- Industrial marking
- Marking of pendants/pet tags
- Marking on other diverse materials such as metal/plastic/glass
- Glass marking
- Marking of promotional gifts
- Engraving of various labels (signage)
- Pet tag marking
- Pen marking
- Marking of parts

### Main Customers

- Handcraft workshops
- Manufacturing plants
- Other clients who intend to engrave on various kinds of products
- Souvenir shops
- Sign/promotional material companies

- Jewelry such as gold, platinum, and silver
- Special metals including surgical steel and titanium
- Others

# Features of the Product

## ■ Versatile Application



**Comes with a wide work range that makes it possible to mark on materials in different sizes**

- Comes with a wide engraving range to largely expand the sizes of material to be engraved.
- Comes with flatbed clamp to engrave in approx. 240mm x 180mm size.
- The wide inner space makes it possible to fix materials bigger than the engraving area.
- The open front and back allows users to deal with long materials.
- The machine comes with less restriction on material size to allow flexible utilization.



**Simple Expansion of Function**

- Various optional devices are supported for easy expansion of engraving functionality.
- The removable clamp makes it possible to interchange easily according to the users' purpose of use.
- The clamp can be adjusted for heights, so it is easy to engrave on materials in different thicknesses.
- The machine comes with various jigs, clamp pins, etc. to easily fix and engrave on materials in various forms.

## ■ High Quality Scribing Marking



**High Quality Scribing Marking with a Diamond Tool**

- Support scribing marking with a diamond tool. Excellent marking quality.
- Thanks to the diamond tool, the marking surface becomes specular with a luxurious gloss.
- High-speed marking without restriction on marking speed due to material hardness.
- Marking is clear and easy to recognize thanks to the specular surface gloss and light reflex generated by the marking depth.
- Material colors do not change, and the original colors are maintained.
- Cost-efficient maintenance with long tool life and low supplies cost.

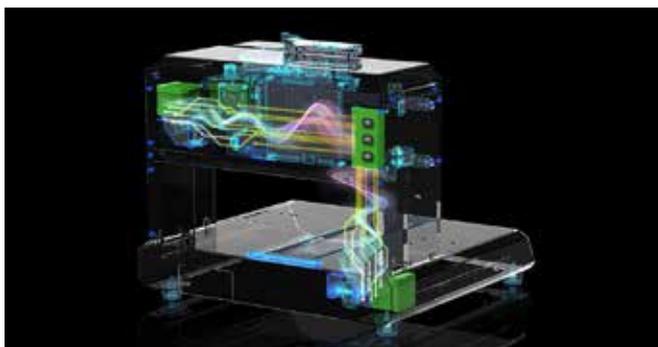


**Support Various Marking Types**

Scribing marks by pressing materials with a diamond tool to draw various marking effects as shown below.

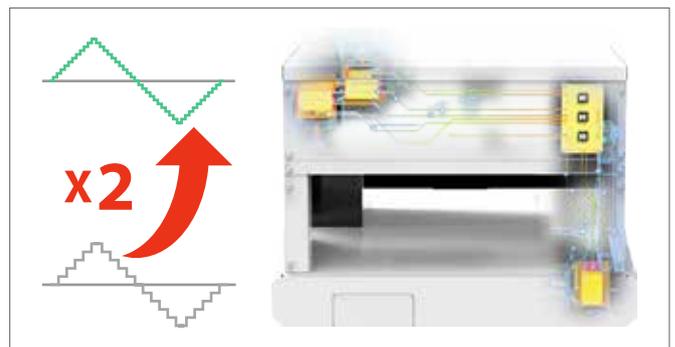
- Hatching line - Express designs clearly with vertical or horizontal lines at regular intervals.
- Diagonal/cross line - Express designs with diagonal or X-formed cross lines at regular intervals.
- Contour line - Fill the inside of designs with frame lines at regular intervals to show patterns.
- Outline - Express design edges clearly with lines.
- Single line - Express letters, etc. simply with a single line.
- Photo marking - Express photograph images with dots.

## ■ Third Generation Multipurpose Desktop Marking machine



**Innovative Design, Parts, and Functionality**

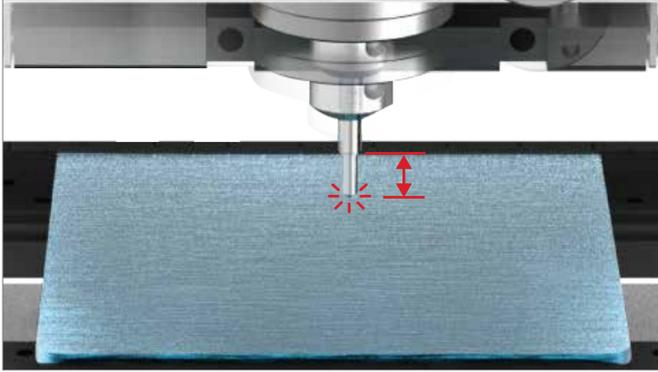
- The third generation multipurpose desktop marking machine has achieved innovative changes.
- Everything including design, parts, and functionality was re-designed based on new technology.
- Great improvement in functionality, structural stability, performance, and design.



**Third Generation Latest Motor Control System**

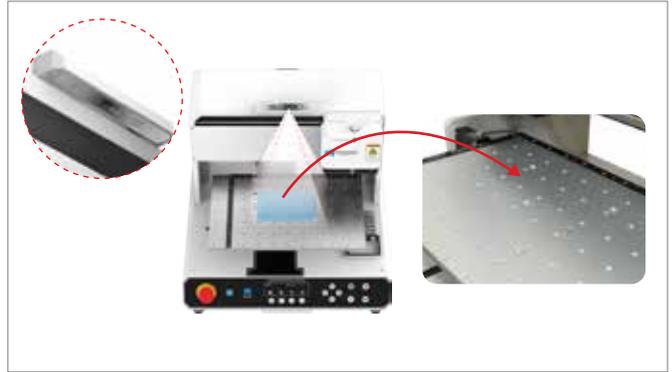
- Machine control with a resolution that is twice that of the conventional ones.
- More detailed expression capability with higher marking quality.
- Sharp reduction of noise while machine is in operation.

## ■ Convenient Functions that Enable Easy and Quick Marking for Everyone



### Auto Measurement

- A material measuring sensor detects the height of the material and adjusts the origin point automatically.
- The machine is designed for quick and convenient use without any extra work to adjust tools to the materials.



### Simple identification of the marking position based on the embedded camera and laser

- The device supports an intuitive way of use by which users can design and mark directly upon material images using the embedded camera.
- A laser pointer is built in for users to find and adjust engraving positions easily.
- The machine requires only minimum preparation and thereby offers quick and convenient marking for all.



### Bluetooth Wireless Connection

- They can control the machine wirelessly using their own tablets through Bluetooth wireless communication.
- The machine enables connection with Android tablet, iPad, Window tablet, and most of the other tablets.
- The communication function allows customers to take part in marking using a tablet at shops and start marking immediately.



### High-Speed Marking

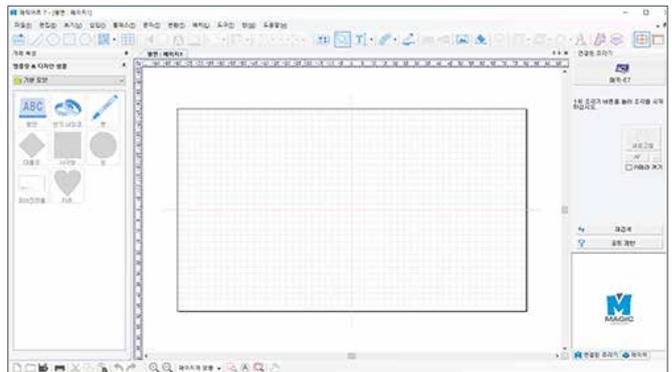
- High-speed marking with the diamond tool.
- High-speed marking on any kind of material qualities.
- Simple and quick mass marking repetition thanks to the clamp that can easily hold and release materials

## ■ Easy and User-Friendly Design and Software for Anyone



### Small, Quiet, and Modern Design Style

- The machine is small-sized, and offers the advantages of low noise and less restriction on installation places.
- The simple design looks good against any type of interior settings in the surroundings.
- The unit is favorable to install at shops and provide marking services.



### The machine comes with easy-to-use and convenient MagicEngrave™ software.

- MagicEngrave is a convenient and easy-to-use program that anyone can learn and use easily for marking.
- The simple way of use and various features of MagicEngrave allow anyone to utilize the engraver for wide-ranging purposes.

# Functions and Applications

## Marking of industrial nameplate



Marking on industrial nameplates.

- The markings are deep and highly recognizable, and not erasable.

## Marking of parts



Marking on various industrial parts.

- Marking in different fonts, sizes and texts.

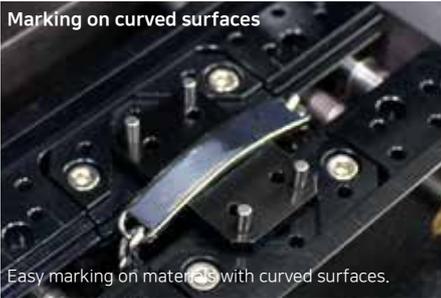
## Marking on pendants



Mark letters, logos, patterns, etc. on various materials.

- Marking on pet tags, accessories, nameplates, souvenirs, promotional materials, etc.

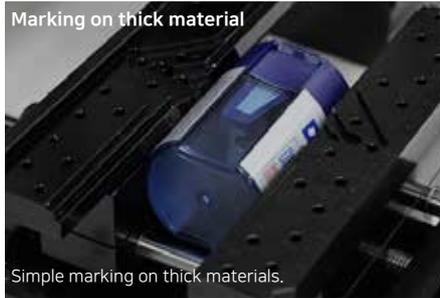
## Marking on curved surfaces



Easy marking on materials with curved surfaces.

- Mark on curved surfaces for objects such as bracelet, pen, hip flask, and ball easily.

## Marking on thick material



Simple marking on thick materials.

- Height adjustable clamp and various jigs are available to deal with materials in different thicknesses.

## Marking on long-length material



MAGIC™-S4 can be used to engrave on long-length materials.

- The open front and back accommodate long materials.

## Photo marking



Mark images on pendants, pet tags, etc.

- Use the marking method of dotting upon materials to express images.

## Pen marking



Mark on diversely formed pens in different lengths.

- Easily fix pens in various shapes using a tailstock and pen clamp.

## Lighter marking



Mark letters, patterns, etc. on lighters.

- Mark on lighters made of stainless steel, brass or plated metals.

## Pet tag marking



Mark on pet tags in materials such as aluminum, plated metal, and plastic.

- A wide range of engraving materials can be processed to mark on a variety of pet tags.

## Military ID marking



Mark on military IDs.

- Mark on military IDs made of stainless steel, etc.

## Marking name tags



Mark name tags.

- Mark letters, logos, patterns, etc. on various tags.

## Marking on cases for cosmetics



It is possible to mark on cases for cosmetics case.

- Mark various messages on cosmetic cases, caps, etc.

## Marking on watch



Mark on the back or side of a watch.

- Mark anniversary, name, logo, etc. on the back or side of a watch.

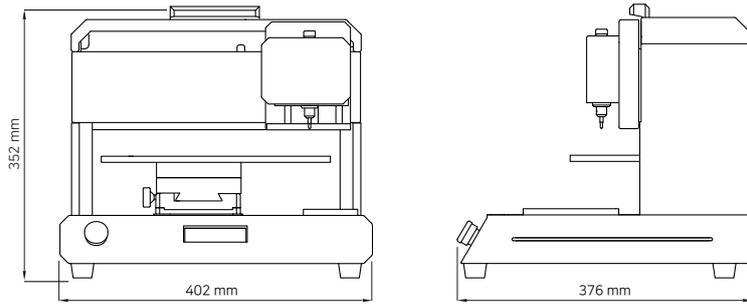
## Marking on various products



Mark directly on various products.

- Jigs can be used to easily fix materials in different shapes for quick marking.

# Product Specifications



Model	MAGIC™-S4	Weight	24Kg
Size	402mm(W) x 376mm(D) x 352mm(H)	Voltage	AC 100~240V, 50Hz/60Hz
XYZ axis stroke	241mm(X) x 179mm(Y) x 40mm(Z)	Power consumption	24W
Resolution	0.0025mm(XY) / 0.000625mm(Z) / 0.028125°(A)	Flat engraving area	241mm x 179mm
Max material height	60mm	Temperature/Humidity	0 ~ 40° / 10 ~ 85%
Bluetooth	Bluetooth BLE(Bluetooth 5.0) / Communication Range : Class 2(32.8ft) / Tx Output : MAX +4dBm / Frequency Band : 2.4 GHz		

# Options

- Multipurpose pendant clamp



The versatile jaw-type clamp is capable of fixing pendants, plates, etc. in different sizes and forms.

- Curved-surface bangle jig



A jig to firmly fix curved objects such as bangles.

- Watch clamp



A clamp to firmly fix a watch for marking on the back.

- Spoon clamp



The spoon clamp firmly fixes long and asymmetrical materials like spoon, fork, and chopstick.

- Clamp pin



The clamp pin can be used to fix objects such as pendant, accessory, and pen, which are thick or in complicated shapes and therefore hard to hold with the basic clamp.

- Tablet



Supports bluetooth wireless connection based on a touch interface to mark without any PC or cable connection. This feature can be utilized for client counseling regarding the marking service, etc.

# Samples

