LASER STATIONS FOR MARKING AND ENGRAVING

LASER WORKSTATION RANGE

www.gravotech.com
A SOLUTION FOR EVERY APPLICATION

A COMPLETE RANGE

Laser marking stations can be used to mark all your components regardless of the material: plastic, metal, organic minerals and more. The workspace is optimized to identify, in a series of by unit, without cluttering your environment. Our stations are compatible with all our laser technologies.

INCREASE YOUR PRODUCTIVITY

Easy to install and use, these workstations are great for any workshop or product line. Reliability is our key word. Our laser stations offer quality marking without compromising on execution speed.

COMPLETE SAFETY

FOR THE OPERATOR

Certified as class 1 (closed door), our marking stations comply with the strictest safety requirements and protect the user and environment from all laser emissions.
- Integrated fail-safe valve
- Certified protective glass
- Door closure security (Interlock)
- Control system with emergency stop
- Integrated extraction and filtration solutions to protect the user from dust and smoke

FOR THE MACHINE

Designed to maintain maximum productivity, our stations guarantee performance and sustainability of your investment.
- Mechanics and electronics are fully protected from dust, smoke and splashes in a sealed and watertight box.
- Dual protection for the laser focus:
  - Layer 1: Glass protection preventing deposits. Removable and cleanable
  - Layer 2: Aluminum ring protection from accidental shocks
- Removal of smoke preventing deposits on the optics, via exhaust units.

LWV1 manual station
LWV2 automated station
LW custom personalized stations
HOW TO: CONFIGURE YOUR SOLUTION

1. CHOOSE YOUR LASER
   Fiber / Hybrid / Green / CO₂

2. CHOOSE YOUR STATION
   LW1 / LW2

3. PERSONALIZE YOUR STATION
   LW CUSTOM / Accessories

4. CHOOSE YOUR SOFTWARE
   Lasertrace™ / Laserstyle™

SUPPORT THROUGHOUT THE PROJECT

We guarantee total support throughout your project, from the process definition to validation of the marking on your samples. Our objective: to provide you with adapted and scalable equipment, which promotes your productivity.
1. **CHOOSE YOUR LASER**

**4 TECHNOLOGIES**

- **Fiber**
- **Hybrid**
- **Green**
- **CO₂**

**AT YOUR SERVICE**

As an expert in marking and laser engraving, Gravotech provides free-of-charge access to an applications laboratory, which is equipped with all technologies and machine configurations; our technical teams are able to perform real-life tests on your parts and to advise you on the system and the parameters adapted to your particular requirement.

**EXPERTISE IN LASER TECHNOLOGY**

Materials react differently depending on the wavelength of the laser beam used. There are many complex factors which affect the outcome: pulse length, power, frequency, speed, etc. Invested in laser technology for over 20 years, we use laser technologies to offer you the best solution for the direct marking of your parts.

**SOMETHING TO SUIT EVERY BUDGET**

You’ll find equipment sized according to your needs. From the simplest and most economical functions to more advanced features and semi-automatic workstations, your new marking solution will meet all your production requirements.
The galvanometric head system used in our stations is a perfect combination of speed and high resolution marking. The quality of the engravings obtained highlights your products and your communications.

As with the printing, there is almost no limit to the engraving process: the laser equipment enables high precision renderings of all your photos regardless of your media material (up to 1200 Dpi).

A LITTLE MORE ABOUT... MARKING PLASTICS

Natural, colored, transparent, boosted or not by multiple additives, the plastic reacts differently depending on the laser and the parameters used.

Offering contrasted and surface marking, the hybrid laser is perfect for a wide range of plastics.

The green laser can be used for more technical plastics and transparent plastics.

Both have very short pulse lengths and they mark without heating the part (no burns or deformation).

FOCUS ON PHOTO MARKING

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2. CHOOSE YOUR STATION  
LW1 / LW2

LW1

- Manual Z axis configuration with counter
- Spacious workspace
- Easy access to control buttons
- Compact and ergonomic
- LED lighting

EASY TO USE
This turn-key marking station is installed with a completely secure environment on a table or workbench. No specialized training is required.

EFFECTIVE
The positioning guide uses a laser pointer to simplify your operation and handling while reducing the risk of error.

COST-SAVING
With a simple and robust design, this marking station is a great solution for quickly identifying small and medium sized parts.

LW2

- U-shaped counter-balanced door. Programmable opening for maximum productivity
- Motorised Z-axis with 11.81" stroke
- Large viewing window
- LED lighting installed
- Large work area with 27 fixing holes (M6)
- DB37 Connector: automated piloting and integration

COMFORTABLE
A more advanced model in terms of its equipment and scope, the LW2 is fully automated: automatic door, motorised Z-axis, allowing for rapid, on-demand adjustments.

FLEXIBLE
You can easily mark all of your parts thanks to the automatic positioning system. The high work volume accepts tools and inserts of all sizes and automatically adjusts to provide the best mark.

PRODUCTIVE
Adapting to your production workflow by automating marking, receiving data from other systems, simplified operator tasks and more. Time-saving and error-free marking are guaranteed.
<table>
<thead>
<tr>
<th>LW1</th>
<th>LW2</th>
<th>LW custom</th>
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<tbody>
<tr>
<td><strong>Weight (lbs)</strong></td>
<td>110.23</td>
<td>132.37</td>
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<tr>
<td><strong>Dimensions (inch)</strong></td>
<td>25.59” x 19.84” x 21.61”</td>
<td>23.62” x 24.48” x 30.39”</td>
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<tr>
<td><strong>Size of marking area (inches)</strong>*</td>
<td>2.55” x 2.55” to 8.07” x 8.07” (Others on request)</td>
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<tr>
<td><strong>Parts insertion area (inches)</strong>*</td>
<td>max. height: 11.18 - max. length 21.22</td>
<td>max. height: 14.37 - max. length 21.96</td>
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<tr>
<td><strong>Safety</strong></td>
<td>Certified Class 1 (closed door)</td>
<td>Complete «Interlock» locking system</td>
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<td><strong>Included</strong></td>
<td>- Selection of marking software Lasertrace™ or LaserStyle™</td>
<td>In addition to LW1 options: Motorised Z axis 11.81”</td>
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<tr>
<td><strong>Personalize your station with a range of options «Plug and Play»</strong></td>
<td>- 3D Marking</td>
<td>In addition to LW1 options: - Motorised door - Class 4 safety option</td>
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<td></td>
<td>- Vision Manager</td>
<td>- Fume extractors</td>
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<td></td>
<td>- Focal length</td>
<td>- Part rotation systems</td>
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<td></td>
<td>- LED lighting of the marking zone</td>
<td>- Focal range</td>
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<td></td>
<td>- Manual Z axis</td>
<td>- Barcode and Datamatrix code reader</td>
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<td></td>
<td>- Supports</td>
<td>- Supports</td>
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* As per focal

**A LITTLE MORE ABOUT... MARKING SURFACE**

Since most parts have a unique shape, our laser systems can automatically adapt to the proper focal length to ensure a perfect mark.

Our high-quality optics distribute the energy from the laser beam over the part without side effects or loss of power.

**FOCUS ON 3D MARKING**

Unique to Gravotech machines, laser marking stations allow for optimal marking with a range up to 120mm for a variety of parts. Flawless marking is guaranteed regardless of the complexity of the shape. The engraving is precise and uniform over the entire part, with no deformation of characters.

**OPTION: AUTOFOCUS**
The autofocus module automatically adjusts the focal length required with no calibration or waiting time required.
3. PERSONALIZE YOUR STATION

PERSONALIZED SOFTWARE
Gravotech offers a personal study of your needs and proposes an adapted solution ensuring that it can be effectively maintained throughout its life. This unique service aims to provide you with a functional and reliable solution, guaranteeing "zero faults" and simplifying operator tasks.

TAILORED-MADE
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SIMPLE TO AUTOMATED
From simple tooling to the automated marking station, our experience and our structure allows us to offer optimal solutions fully integrated into your environment. Minimize manual operations, adjust to the size of the part to be marked, automate repetitive tasks, secures the marking area and more. Gravotech's standard or fully-customized solutions can meet any need.

PERSONALIZED SOFTWARE
Since our lasers can mark anything, our proprietary operating software needs to function just as seamlessly. Personalize your software by changing the interface to your business’ colors, create a customized piece of software, develop dedicated functions, or create your own machine/software/accessory package. Modernize your production like with customized software.
Our solutions are compatible with vision systems that enable response to all your requirements:
- Detection of parts and automatic marking alignments
- Part positioning and verification via WebCam
- Instantaneous readout of barcodes, Datamatrix, QR codes. All guaranteeing your traceability.
- Reading of manufacturing orders and registration of the data

The automatic plate loading module manages the supply, marking and automatic ejection of all your nameplates.

Compatible with all our laser machines, it can be set up in a few minutes and accepts all plate formats, thicknesses and materials (steel and plastic).

This module can continuously load and mark up to ten plates per minute: texts, logos, variables, all your data can be transmitted directly by the software, by your database or by PLC.

**FOCUS ON VISION**

Our solutions are compatible with vision systems that enable response to all your requirements:
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4. CHOOSE YOUR SOFTWARE
LASERTRACE

KEEPING CONTROL OF YOUR PRODUCTS TRACEABILITY

AUTONOMOUS MODE
Laserttrace™ facilitates the traceability and identification of all types of parts.
Serialize your parts easily, generate unique codes and configure your variables, counters and shift codes. Include your logos and barcodes. Finally, preview the marking to reduce the risk of error.
When you create your template, all your artwork is updated automatically!

PRODUCTION MODE
Laserttrace goes one step further and can be integrated into your working environment. Access your database and ERP, manage duplicates, access recorded files and utilise a code reader to verify all marks seamlessly.
Laserstyle™ allows you to create your own customized engraving jobs easily. Unleash your creativity and conquer new markets.

- Import, create and retouch your logos, texts, photos
- Configure precise engraving depths
- 3D and artistic designing

Laserstyle offers an additional 3D marking and texture module so you can push even further and exceed your limits.
ABOUT GRAVOTECH

Gravotech is the global leader in cutting, engraving, scoring and permanent marking solutions for the personalisation, signage and traceability sectors. The group has two main brands: Gravograph and Technifor. Gravotech is the reference supplier of laser and mechanical machines and materials for cutting, engraving and scoring operations. Technifor specialises in dot peen marking, scoring and permanent marking machines using lasers dedicated to traceability.

Gravotech’s head office is in Lyon, France, and it operates three production sites and provides solutions via 21 subsidiaries and distributors in over 100 countries, employing 920 people worldwide.

Additional information on the group, its products and services is available on our sites: www.gravotech.com, www.gravograph.com and www.technifor.com

"The deployment of a group quality system is the basis of our common goal: customer satisfaction."

Gérard Guyard - CEO

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