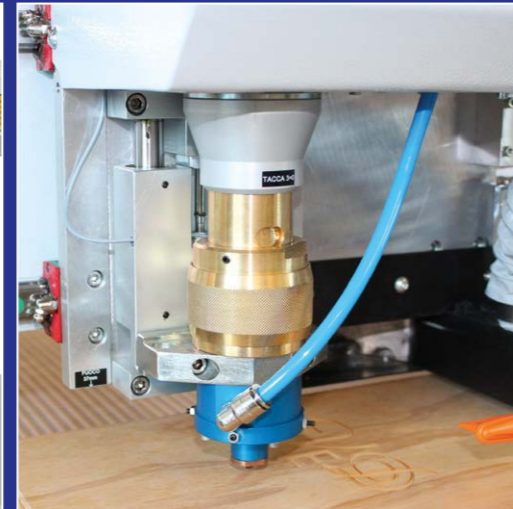


LASERBERG TECH - SOLVE YOUR FUTURE NEEDS TODAY

DESIGN, MANUFACTURE, SALE AND SERVICING OF LASER SYSTEMS FOR ENGRAVING AND CUTTING



DESIGN, MANUFACTURE, SALE AND SERVICING OF YAG-CO2-FIBRE SOURCE SYSTEMS FOR MARKING, LASER CUTTING AND ENGRAVING. MANUFACTURE OF AUTOMATIC SYSTEMS AND LINES WITH INTEGRATION OF INSPECTION SYSTEMS AND DATA MATRIX READING.

Laserberg Tech is an Italian company that has been offering laser marking and engraving solutions for over ten years. We have been able to meet all requests received to date with standard solutions and through the production of machines, automatic lines and special systems. All our products are designed, engineered and manufactured at our facility in Castelli Calepio, in the Province of Bergamo. Flexibility in adapting products to customer needs, ability to design and manufacture servicing and auxiliary systems or special machines, and speed in technical support, are just some of the characteristics that have distinguished us to date and for which we continue, on a daily basis, to build for our future. As well as operating nationally, we operate internationally, which is where we provide the excellence of "Made in Italy" production through our machines. We design and directly produce mechanical, electrical and optical parts and management software (both PLC and PC) for our machines. This makes us able to easily adapt, with dedicated interfaces, to the different production situations. Our laser components (springs, diodes, mirrors, galvanometers, etc.) are the best you will find on the market. The many years of experience of our technical experts who can offer training and support through external involvement and through the most modern web-based communication systems. We will know how to guide you in terms of making the most appropriate choice for your needs. We can provide you with thorough advice, at our offices in Castelli Calepio or at your premises.

TECHNICAL AND COMMERCIAL ADVICE:

- The many years of experience of all Laserberg Tech members will be able to offer you:
- 1) In-depth technical and commercial training visits with feasibility analyses at your company.
 - 2) Specific documentation combined with 3D designs to make the even the most elaborate application project transparent and easy to understand.
 - 3) Marking tests and samples using the various technologies available to us, so that we can help you select the solution most suitable for your needs.

MANUFACTURE AND SALE:

The technical knowledge of our sales staff will allow you to visualise the project from the first meeting. We are known worldwide for our ability to adapt our products to any production situation. This ability comes from one of our distinctive features: we design and build all our products in-house. We place our technical skills at your service so you can find the most efficient solution for your needs. Our sales network is constantly expanding, allowing us to be present nationwide, either by direct contact, or through carefully selected representatives.

TRAINING - SUPPORT - TECHNICAL ASSISTANCE:

In today's market, these three elements make a good buy become an excellent buy. Only an efficient after-sales service can confirm and strengthen the relationship of trust established during the supply of an industrial tool. We offer you:

TRAINING: our technical experts follow all stages of laser installation, including training workers who will then be able to manage the work independently, from the first day.

SUPPORT: purchasing a laser typically means your immediate needs are met and numerous opportunities are generated. Therefore, we provide you all the support you need to find the configuration most suited to your new requirements (e.g. new materials, new work management, etc.).

TECHNICAL ASSISTANCE: we build them, we repair them. If necessary, our technical experts will get themselves promptly organised so they can resolve your problems, working directly at your premises.

SPECIAL MACHINES - ONLINE INTEGRATION - INSPECTION SYSTEMS AND DATA MATRIX READING:

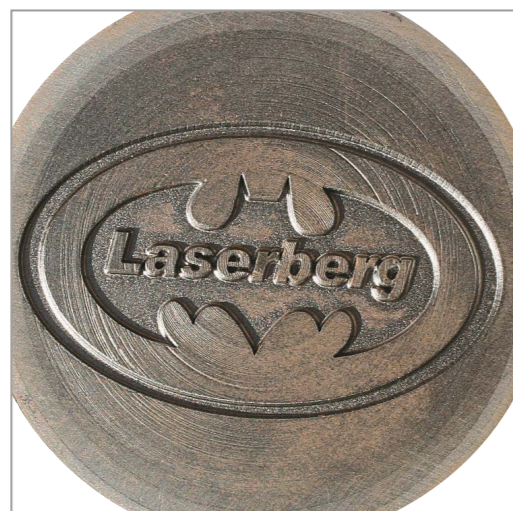
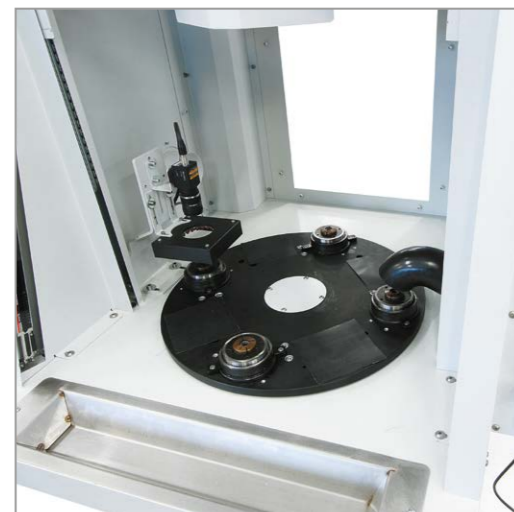
Our wide range of products serves as a starting point for the implementation of all types of special systems:

Autonomous: islands for autonomous and offline marking, complete with handling belts, plate loaders, unwinders, linear and circular vibrators, etc.

Online: we can provide an interface with any management system via PLC and dedicated software. We design and manufacture any cover required to ensure the safety of the laser directly for your line.

Vision and Data Matrix: For integration with our lasers, we supply and incorporate systems for inspection and data matrix reading, thus creating solutions for marking, reading and storing of written code.





FIBRE AND Nd: YAG SAFETY "CLASS 1" LASER

We wanted to design a range of markers under "class 1" safety and capable of providing a solution to the most diverse needs.

You will find we have made bench-top markers, ideal for simple manual applications, laser workstations with rotary tables, and encased lasers, capable of providing the most in terms of ease of use and high versatility.

Our design of laser "class 1" goes beyond mere technical features related to ensuring safety.

We manufacture lasers that are easy to use, with intuitive management of their functions and few components requiring connection in order to make the system operational and productive from the moment of consignment.

Our lasers are available with sources in **Fibre and Nd: Yag** and are ideal for **marking/engraving all metals, including precious metals and general plastics.**

This will enable you to evaluate, with us, the best solution for your needs.

MICROTECH Series, Fibre Lasers: SMALL SOLUTION FOR HIGH DEMANDS



Compact design, ease of use, versatility and quality of marking are the keywords behind the **Microtech** project. This bench-top solution is designed specifically for all those applications for which it is necessary to perform manual and offline marking of small to medium workpieces.

The operator will therefore have a marking system that is easy to use and fast at performing its tasks, thus allowing him to work efficiently and without interruption.

The Laser **Microtech** has a practical control pushbutton that can be used by the operator to configure the system, perform writing simulation and manage start/stop marking.

The door is balanced ad hoc to improve opening and closing operations. It has a window made of a special glass that blocks the laser beam and at the same time allows the operator to follow progress of the marking.

The possibility of selecting the source power and focal size allows the operator to always obtain the best results for any specific need.

Its excellent value for money also allows the operator to easily enter this marker in the production cycle.

- MARKING AREAS (mm): 70X70 – 110X110 – 180X180
- POWER SOURCE: 5W – 10W – 20W – 30W
- WRITING SPEED: 200 caratteri/s
- FONT AVAILABLE: True type, Monolinea
- MARKING CODES: CODE39, CODE128, 2D DATA MATRIX, QRcode
- MARKING LOGOS: DXF, DWG, PLT, JPEG, BMP
- MOTORISED Z-AXIS
- CONTROL PUSHBUTTON
- SIMULATION POINTER



Series FI-BERG Fibre Lasers: THE EVOLUTION OF BENCHTOP MARKERS



The **FI-BERG** laser represents first-class bench-top marking systems.

Using the highly acclaimed configuration of the **Microtech** series, we studied and increased the size of the external cover, until we obtained a bench marker that would enable the inclusion of our optional accessories.

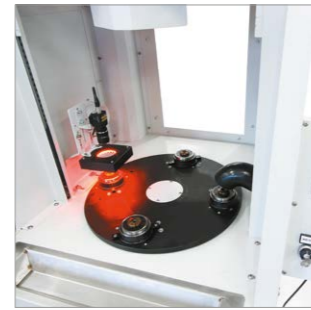
The **FI-BERG** laser is only 70 cm wide and is designed as a laser marker that can be equipped with some of our main peripheral devices, such as the automatic plate loader, AXIS C rotation for radial marking of workpieces, table for XY movement, camera with ONE SHOT application, etc. The laser software we manufacture allows the operator to manage the most simple and most elaborate markings in a simple and intuitive way, where the use of our accessories is required (e.g. marking on rings, serial marking of workpieces and sequential marking of plates). The Laser **FI-BERG** has a practical control pushbutton, which can be used by the operator to configure the system, perform writing simulation and manage start/stop marking.

The door is balanced ad hoc to improve opening and closing operations. It has two windows made of a special glass, which block the laser beam and at the same time allow the operator to follow progress of the marking. The possibility of selecting the source power and focal size allows the operator to always obtain the best results for any specific need.

- MARKING AREAS (mm): 70X70 – 110X110 – 180X180
- POWER SOURCE: 5W – 10W – 20W – 30W
- WRITING SPEED: 200 caratteri/s
- FONT AVAILABLE: True type, Monolinea
- MARKING CODES: CODE39, CODE128, 2D DATA MATRIX, QRcode
- MARKING LOGOS: DXF, DWG, PLT, JPEG, BMP
- MOTORISED Z-AXIS
- CONTROL PUSHBUTTON
- SIMULATION POINTER



**4 MOTION series laser workstation with rotary table:
4 OPERATIONS IN ONE STATION**



If your goal is to have one workstation where you can perform positioning and inspection of a workpiece, and the marking and unloading of the same the workpiece, the "4 MOTION" Laser is your solution.

The 4 MOTION series has a rotary table with 4 positions:

1. Loading: the operator loads the workpiece.
2. Reading: the reader performs the scanning of the workpiece to check its positioning.
3. Marking: the piece is marked by following the instructions given by the software.
4. Unloading: the piece is automatically unloaded.

Designed for the automatic marking of buttons, it was then updated to the latest market requirements, namely the marking and automatic reading of codes such as BARCODES and DATAMATRIX on small items.

The Laser 4 MOTION is available with sources in fibre, Nd: Yag and CO2.

Depending on its configuration, it can be used in numerous applications, from the marking of alphanumeric text on a button, to the marking of a Data Matrix code on a metal insert..



- MARKING AREAS (mm): 70X70 – 110X110 – 180X180
- FIBER POWER SOURCE: 10W – 20W – 30W
- Nd: YAG POWER SOURCE: 40W – 60W
- CO2 POWER SOURCE : 50W – 80W – 100W
- WRITING SPEED: 200 caratteri/s
- FONT AVAILABLE: True type, Monolinea
- MARKING CODES: CODE39, CODE128, 2D DATA MATRIX, QRcode
- MARKING LOGOS: DXF, DWG, PLT, JPEG, BMP
- MOTORISED Z-AXIS, CONTROL PUSHBUTTON, SIMULATION POINTER, PC INTEGRATED

**PEGASO Series Fibre Lasers - Nd: Yag encased:
YOUR SOLUTION IN ONE STATION**



PEGASO Series encased lasers are designed to maximise the efficiency of the workplace and provide the operator with the maximum ease of use of the marker. The automatic opening of the door, large work surface, control panel and PC incorporated into the structure are just some of the strengths of this laser. The internal reinforced compartment allows objects to be inserted that are larger than 620 mm 520 mm. Since this is the case, it is guaranteed that bulky items can be marked/engraved in total safety. The laser software we produce allows the operator to manage the most simple and most elaborate markings in a simple and intuitive way, where the use of our accessories requires (e.g. marking on rings, serial marking of workpieces arranged on a grid and the serial marking of plates). It is used in particular for the marking of medium to large items and is available in various versions that differ from one another in size and source type (Fibre and Nd:Yag). All models can be equipped with our accessories and can be customised according to your requests. If a bench-top marker is too small for your needs, you will definitely find your ideal "class solution 1" in the PEGASO series of models. The PEGASO PLUS model is also available in a special MOLD version for the construction of stamps. It comes with 3D design specific software and a high-power source.

- MARKING AREAS (mm): 70 x 70 – 110 x 110 – 180 x 180
- FIBER POWER SOURCE: 5W – 10W – 20W – 30W
- Nd: YAG POWER SOURCE: 40W – 60W – 80W – 100W
- WRITING SPEED: 200 characters
- FONT AVAILABLE: True type, Monoline
- MARKING CODES: CODE39, CODE128, 2D DATA MATRIX, QR code
- MARKING LOGOS: DXF, DWG, PLT, JPEG, BMP
- MOTORISED Z-AXIS, CONTROL PUSHBUTTON
- SIMULATION POINTER, PC INTEGRATED



**PEGASO PLUS Series:
SPECIAL VERSION FOR MOLDS**



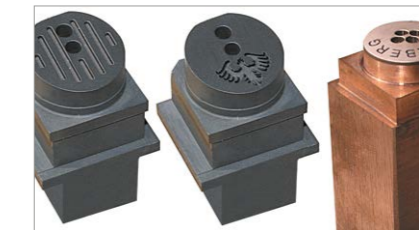
The laser of the PEGASO PLUS series units are engraving laser complete systems with a 2-axis of galvanometer scan head, equipped with a solid state diode pumped Nd: YAG laser source (from 5 to 150 watt), or FIBER YTTERBIUM source, or END PUMPED source with fiber diode. They are used mainly in applications for engraving/ etching, and cut such materials as: painted glass, black granite, aluminium, metals, plastics, etc...

The main feature that marks the PEGASO PLUS series is the extraordinary quality of laser sources, which allow results without compromises; all is included in a big size machine body that is able to contain pieces of big sizes.

Thanks to its strength the PEGASO PLUS system is particularly suitable for industrial applications and easy applications; it is possible to integrate a special monolithic structure that makes PEGASO PLUS a real and own

machine tool.

The work area is studied in the minimum details in order to offer to the operator the maximum "comfort" which unified to the characteristics of ease of use, high quality, speed and flexibility, offers unique possibilities of application, increasing the number of law – and medium thickness materials on which the combined processing can be made, both by the cutting/ drilling and engraving.





**LASER FOR INTEGRATION,
IN "CLASS 4" SAFETY,
WITH SOURCES IN ND:YAG,
FIBRE AND CO2**

When we talk about laser integration, the main features we think about are: reliability, robustness, speed and ease of integration. Our lasers are the result of years of experience in online and offline marking. Everything from the laser's support structure to its reinforced cables and the large console that hold the cooling chiller have been studied in detail to ensure the longevity of our laser, even with the most demanding applications. These lasers are not limited to only solving the problem of online marking, but, thanks to their functionality, are increasingly used for special applications or in all those areas where a safety cover is the reason for an application limit.

We can therefore use the full potential of these lasers for marking large workpieces and for automatic marking, incorporating them with our accessories (e.g. the 700 mm x 500 mm XY table).

VERSIONS WITH SOURCES in fibre - Nd: Yag are ideal for marking/engraving of all metals, including precious metals and plastics in general.

**▶ VEGA series laser for integration with Fibre - Nd:Yag:
MORE SPACE FOR YOUR WORK**



VEGA series laser for integration with Fibre - Nd:Yag: more space for your work
The **VEGA** laser is a laser marker for optimum use both online and offline. The concept is very simple: take a laser with an excellent source, place it on a sturdy and stable support, plug it into an electronic console using reinforced cables, and choose whether to use it online or offline. Because of its reliability, the Vega laser has been used in numerous industrial applications, some of which are fully automated and customised according to the customer's requirements. As for the **SIRIO** laser, the full potential of this marker can also be exploited offline. The large reinforced work surface enables large items to be marked and one of our special accessories to be applied. The **Vega** laser can be configured by choosing from sources in fibre or Nd:Yag.

- MARKING AREAS (mm): 70 x 70- 110 x 110 - 180 x 180
- FIBER POWER SOURCE: 5W - 10W - 20W - 30W
- Nd: YAG POWER SOURCE: 40W - 60W -80W - 100W
- WRITING SPEED: 200 characters
- FONT AVAILABLE: True type, Monoline
- MARKING CODES: CODE39, CODE128, 2D DATA MATRIX, QR code
- MARKING LOGOS: DXF, DWG, PLT, JPEG, BMP
- MOTORISED Z-AXIS, CONTROL PUSHBUTTON, SIMULATION POINTER, PC ON CONSOLE, COOLING CHILLER



**▶ SIRIO series laser for integration with Fibre - Nd:Yag:
THE MAXIMUM IN TERMS OF INTEGRATION**



The **SIRIO** laser is the system for par excellence marking integration. It is robust, reliable and fast, and has a feature that differentiates it from most other markers on the market: its marking head can be rotated by 90°. This solution not only enables easy integration of any line, but allows the same laser to be used for standard laser marking (the workpieces pass under the laser's lens) and vertical marking of items (the workpieces pass in front of the lens). The large size of our integration laser allows it to be easily used with external accessories or systems such as reels, raised XY tables, loaders for plates in multiple formats, etc. The potential uses are almost limitless and make the **Sirio** laser incredibly versatile. The Sirio laser can be configured while choosing from fibre or Nd:Yag sources.

- MARKING AREAS (mm): 70 x 70- 110 x 110 - 180 x 180
- FIBER POWER SOURCE: 5W - 10W - 20W - 30W
- Nd: YAG POWER SOURCE: 40W - 60W
- WRITING SPEED: 200 characters
- FONT AVAILABLE: True type, Monoline
- MARKING CODES: CODE39, CODE128, 2D DATA MATRIX, QR code
- MARKING LOGOS: DXF, DWG, PLT, JPEG, BMP
- MOTORISED Z-AXIS, CONTROL PUSHBUTTON, SIMULATION POINTER, PC ON CONSOLE, COOLING CHILLER





CO2 SOURCE VERSIONS

CO2 source lasers have a range of applications and are very different from lasers with source in fibre or Nd: YAG.

This technology can be used to mark, engrave and cut materials, such as general plastics, wood, corozo, leather and all natural products, polyester paper/cardboard, glass, granite, marble, ceramics, mother of pearl, bone and regular fabrics.

We use sources with a power range of between 30W and 300W, so you always get the best quality/price/performance for each application.

▶ ANTARES series laser for integration with CO2: MARKS AND ENGRAVES ON THE SAME PLATFORM



- The **ANTARES** laser is a laser marker for optimum use both online and offline.
- The **CO2** sources allow rapid and visible markings to be made, ensuring code readability, even in applications with cycle time reduced to a few tenths of a second.
- Because of this feature, the Antares laser has been used in a number of industrial applications, some of which are fully automated and customised according to the customer's requirements.
- As for the Polaris laser, the full potential of this marker can also be exploited offline.
- The large reinforced work surface enables large items to be marked and one of our special accessories to be incorporated.

MARKING AREAS (mm): 65 x 65- 120 x 120 - 180 x 180
POWER SOURCE: 30W - 40W - 60W - 80W - 100W
WRITING SPEED: 200 characters
FONT AVAILABLE: True type, Monoline
MARKING CODES: CODE39, CODE128, 2D DATA MATRIX, QR code
MARKING LOGOS: DXF, DWG, PLT, JPEG, BMP
MOTORISED Z-AXIS, CONTROL PUSHBUTTON,
SIMULATION POINTER, PC ON CONSOLE,
COOLING CHILLER



▶ POLARIS series laser for integration with CO2: THE EVOLUTION OF INTEGRATION WITH CO2



- It is robust, reliable and fast and has a feature that differentiates it from most of the markers on the market: its marking head can be rotated by 90°.
- This solution not only enables easy integration of any line, but allows the same laser to be used for standard laser marking (the workpieces pass under the laser's lens) and for vertical marking of items (the workpieces pass in front of the lens).
- The large size of our integration laser allows it to be easily used with external accessories or systems such as reels, raised XY tables, etc.
- The laser can also incorporate high power sources (300W), therefore not only making it suitable for marking, but also etching and cutting.
- All these features make the **Polaris** a benchmark laser in the field of marking with CO2 sources.

MARKING AREAS (mm): 65 x 65- 120 x 120 - 180 x 180
POWER SOURCE: 30W - 40W - 60W - 80W - 100W
WRITING SPEED: 200 characters
FONT AVAILABLE: True type, Monoline
MARKING CODES: CODE39, CODE128, 2D DATA MATRIX, QR code
MARKING LOGOS: DXF, DWG, PLT, JPEG, BMP
MOTORISED Z-AXIS, CONTROL PUSHBUTTON,
SIMULATION POINTER,
PC ON CONSOLE, COOLING CHILLER





LASERS AND BUTTON MACHINES

The many years of experience of its founder members in the field of production and processing of buttons have enabled Laserberg Tech to design and produce solutions for the marking and inspection of buttons adaptable to all needs.

We not only provide complete solutions, but thanks to our expertise can also easily work with systems that we have not manufactured.

Our Mizar laser, for example, is designed to be applied to all button machines.

Whether you want to mark the edge of a button, implement changes, or detect the distance between holes, we can offer you the best solution for your needs.

MIZAR series laser for integration with CO2: SO MUCH POWER IN SUCH A SMALL SPACE



Its unique structure is the result of a challenge that stemmed from its design: to create a laser marker that can be applied to all button machines.

This laser was made to be vertical and offers excellent performance in a small space, allowing all owners of button producing machines to mount it on their own workstations, thus improving efficiency.

The **Mizar** laser can be integrated with our standard systems for the producing buttons and with workstations designed around your specific needs.

Because it is a CO2 laser marker, it can also be used in all other industries linked to this technology, becoming a standard laser marker for integration.

- MARKING AREAS (mm):** 65 x 65- 120 x 120
- POWER SOURCE:** 30W- 60W - 80W - 100W
- COOLING:** Air or water, depending on power and individual preferences
- WRITING SPEED:** 200 characters
- FONT AVAILABLE:** True type, Monoline
- MARKING CODES:** CODE39, CODE128, 2D DATA MATRIX, QR code
- MARKING LOGOS:** DXF, DWG, PLT, JPEG, BMP



PROMETEO series laser for integration with dual-block CO2: WORK IS SPLIT INTO TWO



The **PROMETEO** series marker can be integrated with all button producing machines.

The system, both in terms of performance and type of use, is identical to the Mizar marker. The only difference lies in its mechanical structure.

The **Prometeo** laser comprises two different parts:

1. **Electronic console:** robust structure containing all the laser's electronic components and cooling chiller.
 2. **Laser:** head of laser integration marker
- Depending on your preference, you can opt for the fully integrated Mizar laser or **Prometeo** laser with a separate console.

- MARKING AREAS (mm):** 65 x 65- 120 x 120
- POWER SOURCE:** 30W- 60W - 80W - 100W
- COOLING:** Air or water, depending on power and individual preferences
- WRITING SPEED:** 200 characters
- FONT AVAILABLE:** True type, Monoline
- MARKING CODES:** CODE39, CODE128, 2D DATA MATRIX, QR code
- MARKING LOGOS:** DXF, DWG, PLT, JPEG, BMP



**POLO 1 EVO" series, with automatic marking of buttons:
PRODUCTION IN A SINGLE CLICK**



The "POLO 1EVO" series was designed for automated button marking. Handling, positioning, inspection, marking and all operations are carried out automatically by our system, by using a special PLC (manufactured by us). We have incorporated control devices that enable the self-regulation of various processes, in order to avoid any downtime caused by jamming of the workpieces. The eagle vision system, which ensures that all the buttons are correctly positioned and guided, can perform a quality check in order to immediately discard any non-compliant workpieces without them passing unnoticed from the marking area. In carrying out this task, we can be certain that the workpieces contained in the container at the end of the process are compliant and meet the quality standards required by production. As well as the machine's classic front light, it has the backlight of the button for resolving any issues and facilitating processing. "POLO 1 EVO" can be equipped with special systems for the fly-marking or the marking of the edge of the buttons. Marking, which is the final stage of processing, can be entrusted to our fast and reliable Mizar and Prometeo markers. Everything on this workstation is designed for maximum efficiency and reliability.



**ROUNDLY series, with automatic marking on the edge of the buttons:
SIMPLICITY IS EVERYTHING**



Roundly is our specific unit for marking button edges. After selecting the job to be marked, the operator's only task is to place the buttons inside the first container. The choice of power and the face of the object are made via a vibrating conical cup-shaped feeder, while the pushing of the object is performed using a linear vibrator. The machine is supplied with our eagle vision system, which allows you to guide objects for any drilling or slotting. As for the "POLO" system, we wanted to create a reliable system that would prevent any blockage of the load and, in this case, everything is guided and monitored by a system of optical readers that check the filling level of the channels.



SOME APPLICATIONS OF LASERS AND BUTTON MACHINES



PLOTTER FOR CUTTING AND MARKING

Our Plotters are the perfect solution for all applications involving cutting and/or marking of sheet/plate materials and semi-finished and finished products, including methacrylate, plastic, acetate, polyester, wood, paper, leather, and organic and synthetic materials.

Our Plotters integrate two different functions:

- 1. Marking:** The laser beam generated by the source is sent to a galvanometric scan head, which transforms the plotter into a high-performance marking system.
- 2. Engraving/cutting:** the laser beam generated by the source is directed to the head specially designed for cutting. In this case, movement is performed on XY axes and enables workpieces to be clearly and cleanly cut.

This feature simplifies the production process because if it is necessary to mark a piece and then cut it, it can be done with the same machine without compromising quality, since each head has its dedicated function.

The wide range of areas and powers of the source means you can find a solution that easily meets your needs.



PERSEO series CO2 dual-head marking and cutting plotters: ONE WORKSTATION, TWO SOLUTION



The **Perseo** plotter is one of our most popular solutions. This system has two machining heads integrated into the same machine. The scanning head is used to mark workpieces, while the cutting head performs their cutting. The **Perseo** plotter allows the operator to perform two operations using a single start button, while always relying on the quality of a head allocated to each function, without having to act on the system parameters. As there is no need to carry the workpiece from a cutting workstation to a marking workstation, processing times are halved and moving the workpiece from one area to another is no longer necessary. The quality of workmanship is always optimum and results during cutting or marking of vector and/or raster files are excellent (logos, drawings, etc.). The **Perseo** system was designed for particularly demanding industrial applications, where conventional machines may not work. Reinforced arm with electronic console, safety devices for "Class 1" certification, conducted by suction and blowing of air, and closed-circuit cooling chiller.

POWER SOURCE	: 50W – 100W – 200W – 300W
MARKING AREA (mm)	: 630X500
CUTTING AREA (mm)	: 730X500
X-Y AXES RESOLUTION	: 0,01mm
X-Y AXES WORK VELOCITY	: 1-1000mm/s programmable
X-Y AXES SHIFT VELOCITY	: 1000mm/s max



HELIOS series plotter for large-scale machining: POWER AND CONVENIENCE AT YOUR SERVICE



The **HELIOS** plotter is the system with the largest capacity in terms of area that we have in production. It is available in various configurations and can cut surfaces measuring a 3,000 mm x 1,000 mm area. This plotter is primarily designed for cutting large surfaces, or larger surfaces than the marking area of the Perseo plotter. The simplicity of its programming allows the plotter to easily switch from trimming one material to another, adapting in a few steps to its type and thickness. It was designed to perform the cutting of the items and possibly incorporate a scanning head (of the Perseo series) to obtain the double marking function and to cut so as to improve its versatility. Since it can be fully integrated, the **Helios** plotter is compact, despite its marking area. PC control, the cooling chiller and the control pushbutton are all integrated with the plotter to limit its encumbrance.

POWER SOURCE	: 50W – 100W – 200W – 300W
MARKING AREA (mm)	: 630X500
CUTTING AREA (mm)	: 1000X1000mm – 1500X1000mm 2000X1000mm – 3000X1000mm
X-Y AXES RESOLUTION	: 0,01mm
X-Y AXES WORK VELOCITY	: 1-1000mm/s programmable
X-Y AXES SHIFT VELOCITY	: 1000mm/s max





C PLUS AXIS
Device for the round object engraving. Mounted on an anodised aluminium slideway, it has an 80 mm diameter self-centring chuck, with pneumatic collet opening through control lever.



EAGLE VISION SYSTEM
An extremely powerful vision system for object re-cognition and in-phase engraving. It has an adjustable, particularly effective luminous diodes illuminant that fits all objects, apart from their shapes and surface natures.



XY TABLE Nd:Yag:
A freely programmable X-Y Cartesian co-ordinates system to shift a piece holder table. It allows a great work autonomy. It is a highly effective servo device, that can be fitted to most object to be engraved, carved, or cut. Possibility to have different sizes, starting from 250x250 mm. Ideal for the lasers Nd: Yag.



SUCTION SYSTEM
A suction system with large air flow and suction head. It has a mechanical filter and an active coals filter for odour and smokes abatement. A water filter is suggested in case of hot smokes.



CLASS 1 CASING
Class 1 casing with upwards manual (optional: electric) sliding door and inspection window, for laser of the CO2 series (Polaris and Antares) and the Nd:YAG series (Sirio and Vega).



C-AXIS
A device for engraving objects roundly. A tailstock mounted on a runner in anodised aluminium is available as an option for long or heavy pieces. It has a self-centering, 80 mm diameter spindle with grippers for the inside and outside.

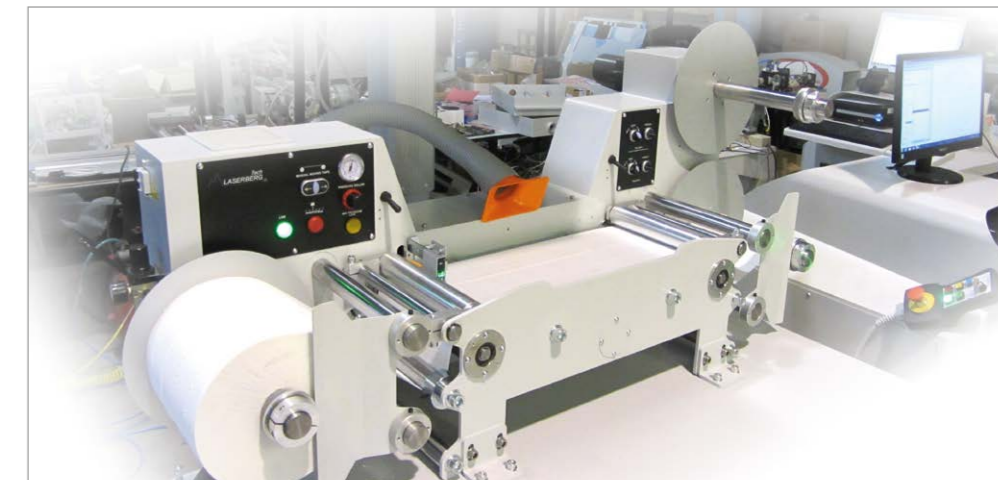


TALLY
Complementary machine, which allows the engraving with an automatic loading of tags through the laser ray. It can dispose of more loading and discharging stores of tags.

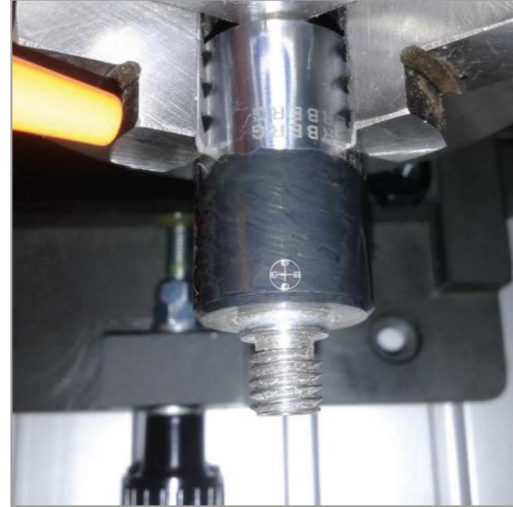
TALLY ONE
Dispose one loading and discargerig store of little plate.



BELT
A rotative belt servo device with indexing, for accurate positioning of piece holder tools. It allows the automatic release of the piece, leaving to the operator the only duty of ergonomic and safe loading.

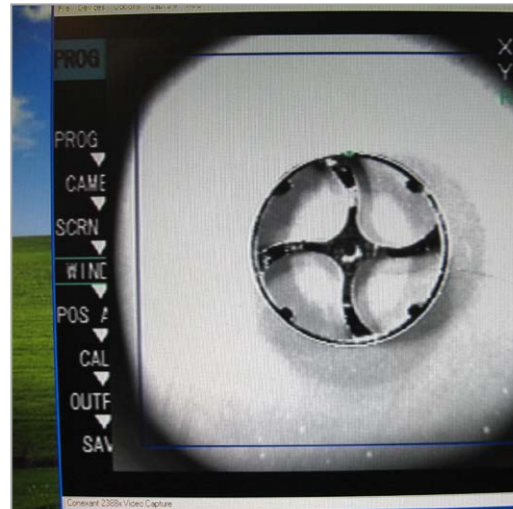
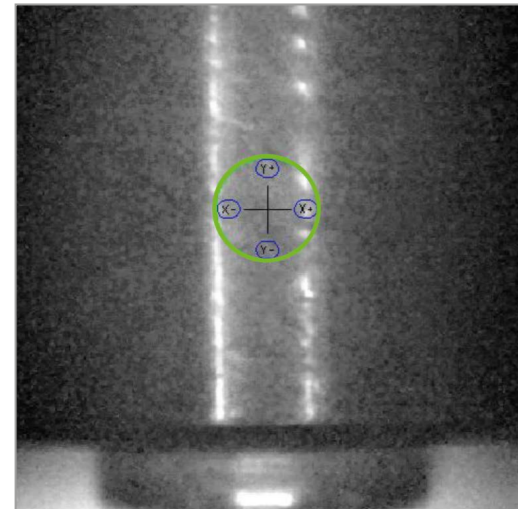


UNWINDER
A servo device that produces labels or engraves special ribbons.



ONE SHOT Coaxial Vision System

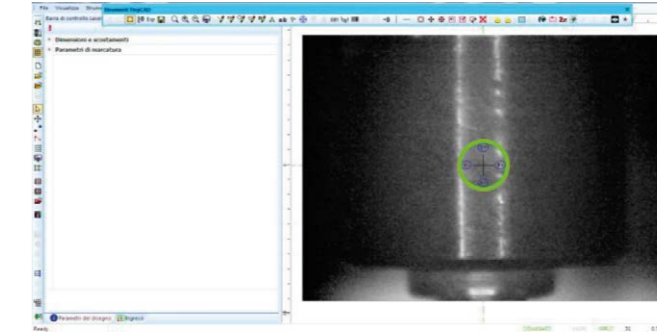
One Shot system is a coaxial vision system that is able to frame the piece to engrave coaxially to the laser. The camera, placed directly on the laser rafter, takes one shot of the piece to engrave, the picture is immediately showed in the background of Laserplus working area. The operator can move the file to engrave wherever he needs, just dragging it with the mouse, or using the dedicated controls in Laserplus software. In this way, the placement is perfectly optimized and the engraving is even more simple. No zeroing or setting is needed.



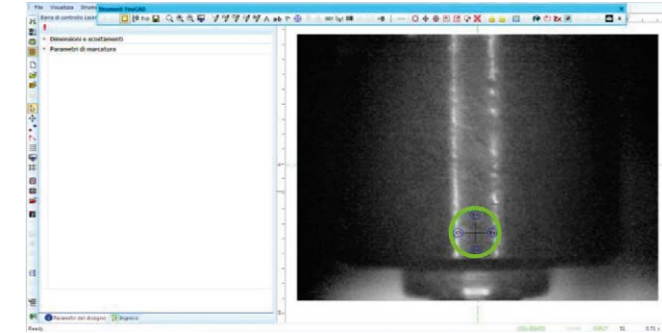
ONE SHOT COAXIAL VISION SYSTEM



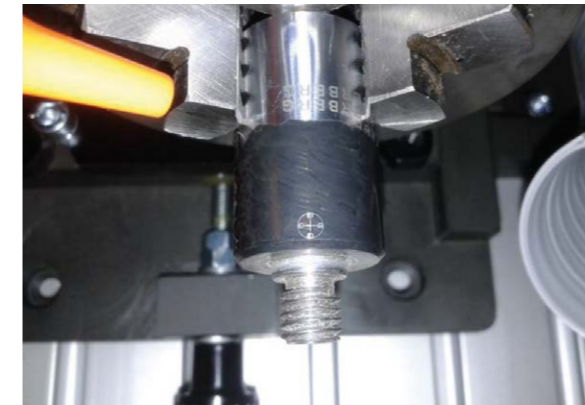
One Shot Vision System mounted on Fi-Berg



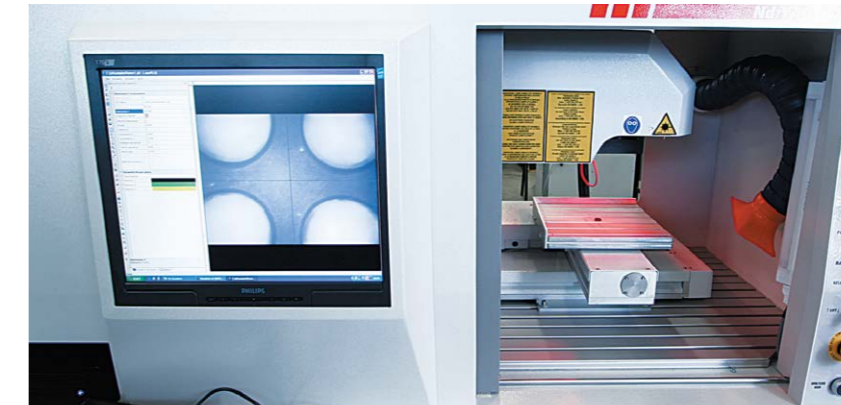
The camera takes a shot of the piece to engrave. This image is placed in background in Laserplus working space.

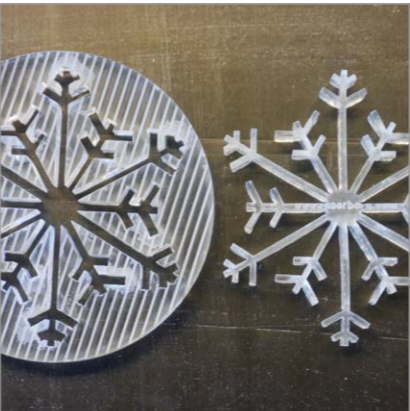
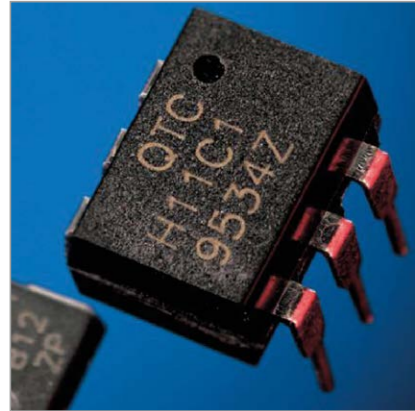


The operator just drag the file with the mouse in the proper position and place the file exactly where he wants to engrave it.



The file is engraved exactly in the desired position.







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