Automator

www.automator.com

MARKING SYSTEMS
LASER

1940 | PRESENT DAY

1940-2020

Automator provides quality designs, world class production and sales of industrial marking machines and systems worldwide since 1940.
In 2020, Automator celebrated its 80th year in business. This means 80 years of knowledge in International Industrial Production in all market segments and all product marking applications! 80 years in satisfying customers with excellent pre and after-sales support! 80 years in Research & Development for machine innovation. With emphasis on inventing new technologies, improving existing technologies, and contributing year after year to push the whole industrial part marking sector towards new goals and new horizons.

Since its early years, **Automator** has always focused on industrial marking. Always imagining, planning and providing the most advanced technologies for this industry.

AUTOMATOR: BRINGING THE FUTURE TO THE INDUSTRIAL MARKING SEGMENT

1940 - 1950
MECHANICAL MACHINES

1960 - 1970
PNEUMATIC AND ELECTRIC-PNEUMATIC IMPACT MACHINES

1980
DOT PEEN ELECTRONIC MARKERS

2000
LASER MARKER

How can one of our customers benefit from our 80 years of experience?

- 80 years in business means we have an extensive **KNOWLEDGE** of marking applications in all market segments and all related industries.

- 80 years in business means a huge **EXPERTISE** in pre-sales activities, especially for understanding customer needs and the ability to help qualify the solution best suited for the job.

- 80 years in business means that all Automator products are the result of **CONTINUOUS IMPROVEMENTS**, technological stratification, upgrades and innovation.

- 80 years in business means a huge **EXPERTISE** in after-sales activities, such as education and support.

- 80 years in business means **STABILITY**! Automator will always be beside you, helping you in all your marking needs!

Our technologies

Automator Marking Systems provides all industrial marking technologies, Traditional mechanical machines, pneumatic or electric-pneumatic Impact, Roll Marking, Hot Marking, and state-of-the-art technologies for Laser, Dot Peen and Scribe Marking.

LASER MARKING

DOT PEEN MARKING

IMPACT MARKING

SCRIBE MARKING

ROLL MARKING

HOT FOIL MARKING

CHEM ETCH MARKING

INNOVATIVE, RELIABLE AND ACCURATE

SOME GOOD REASONS FOR CHOOSING US

Laser marking is the most practical solution e innovative to distinguish industrial products e therefore facilitate their traceability.
This is a laser engraving solution on metals highly appreciated for its flexibility, reliability in yield and savings.

DISCOVER ALL OUR MACHINES

1. SAFETY FIRST

Not all marking lasers are the same. Automator lasers respect all safety standards, through the use of physical barriers and mechanical shutters. To give the operator the highest safety degree.

2. ACCURACY ON ALL MATERIALS

Laser marking is the best and most practcal solution practical for quickly marking all surfaces, with the utmost precision. Flexible, precise and easy to use, the Automator marking lasers fit all industrial processing and applications.

3. MADE IN ITALY

MADE IN ITALY

Since 1940, Automator Marking Systems designs and manufactures entirely in Italy machines for industrial marking. Even in the industrial field, the brand MADE IN ITALY is a guarantee of quality, reliability and long service life.

EFFECTS OF LASER ON SURFACES:

ANNEALING
Dark zero-touch marking.

WHITENING / CLEANING / CLEAR MARKING
Very shallow laser marking.

DEEP MARKING
Engraving by pulverization of the material to the required depth.

OXIDATION
Dark marking on metal.

SWELLING OF THE SURFACE
The laser creates bubbles on the surface, which generate a raised marking.

COLOR VIRAGE
The laser creates a surface alteration of color on metals and plastics.

BURN
On organic materials.

INFRA-MATERIAL MARKING
Marking inside the material, especially glass or Plexiglas.
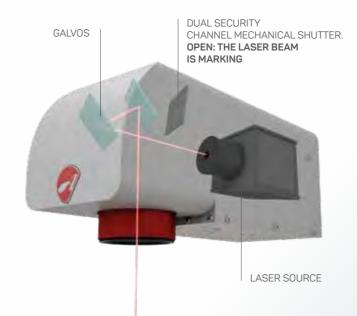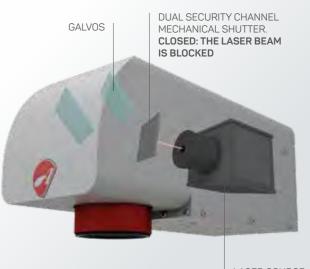
FUSION OF PLASTIC SURFACES

MECHANICAL SHUTTER | SIL3

SHUTTER SIL3

Mechanical shutter with dual channel safety sensor (SIL3).
Physically interrupts the laser beam to manage a safe use of the system.

GALVOS

DUAL SECURITY CHANNEL MECHANICAL SHUTTER.
OPEN: THE LASER BEAM IS MARKING

LASER SOURCE

GALVOS

DUAL SECURITY CHANNEL MECHANICAL SHUTTER.
CLOSED: THE LASER BEAM IS BLOCKED
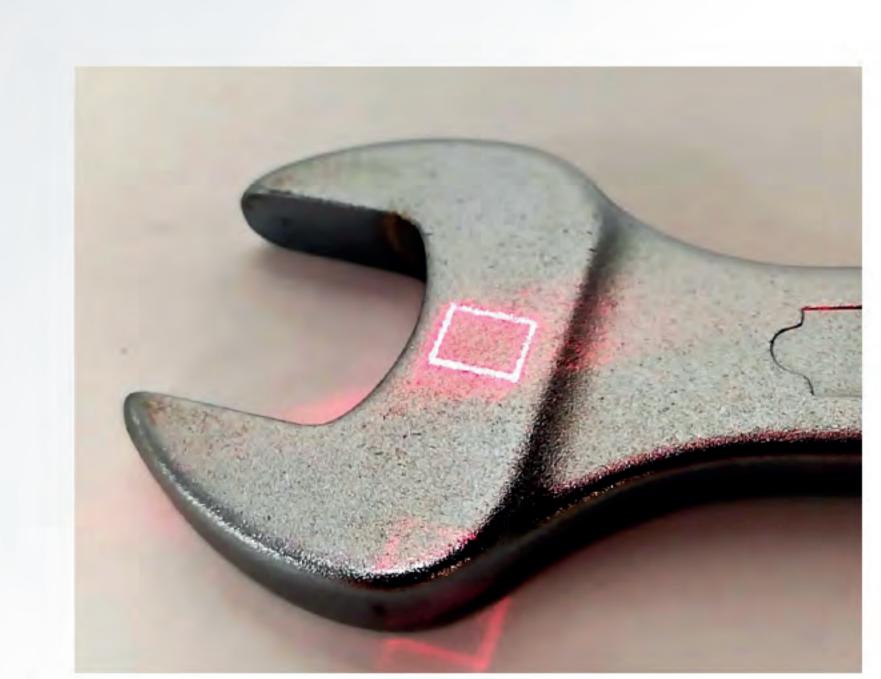
LASER SOURCE

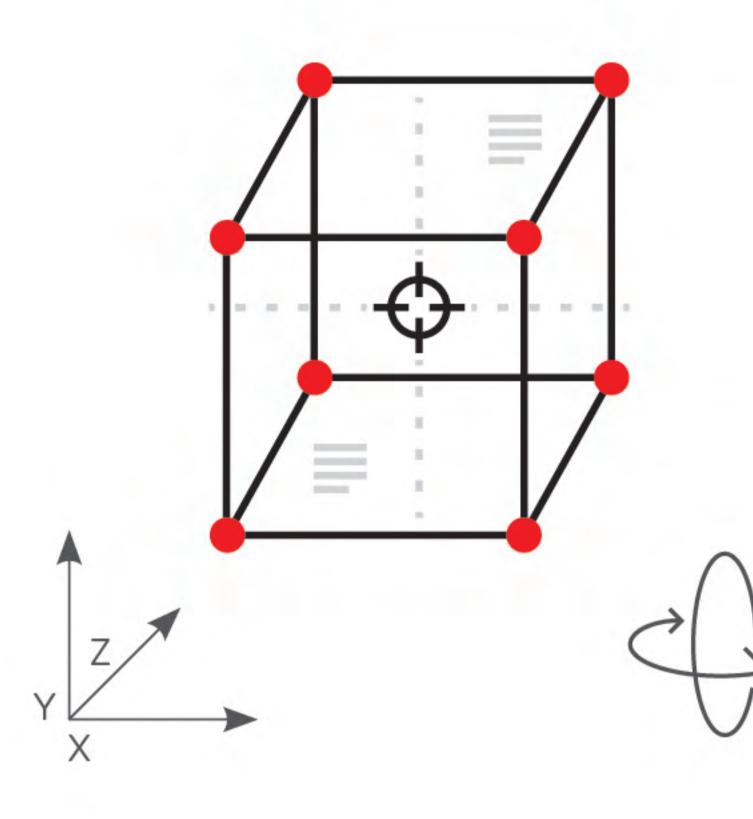## ENLIGHTED LOADIN AREA BY LEDS INTEGRATED IN THE LASER SOURCE

MARKING PREVIEW

Red laser pointer highlighting the marking area directly on the piece to be marked, or simulating the contour of the marking itself.

AUXILIARY AXIS CONTROL

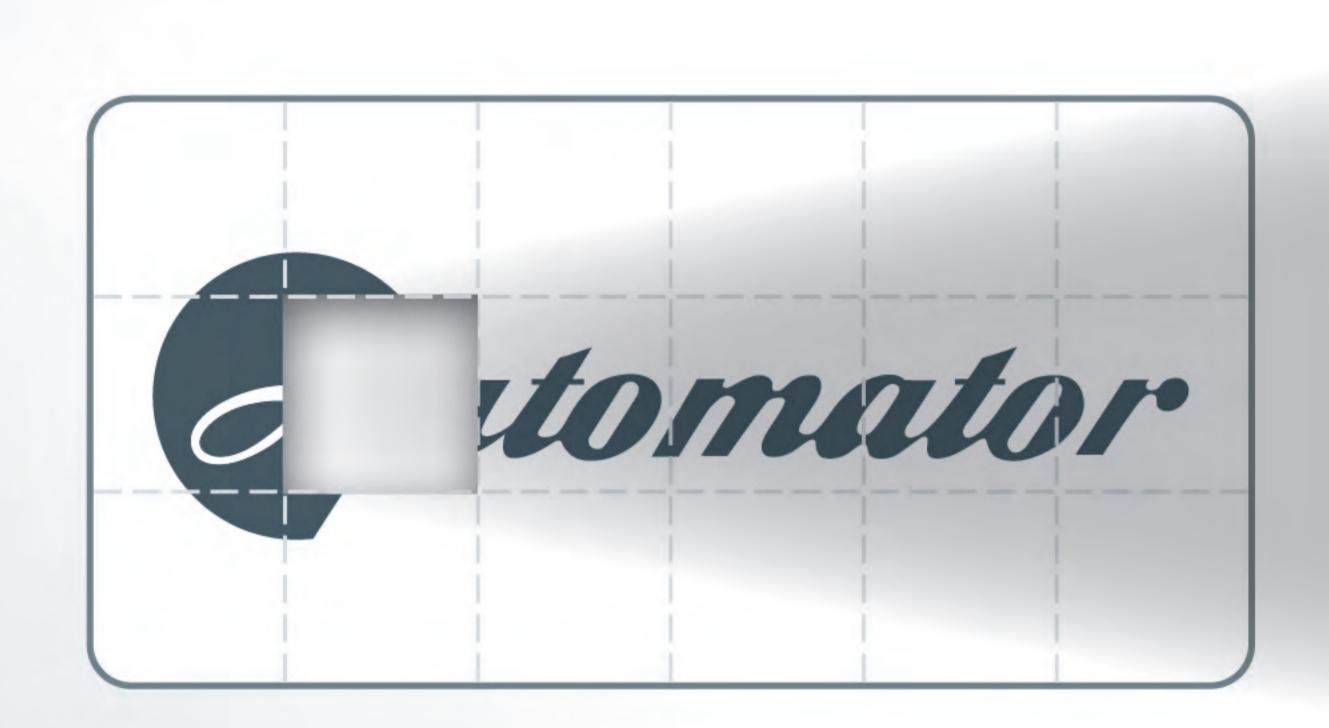Possibility to control up to 32 axes.

VISION:

SWYM®

Vision of the marking field (SWYM®, See What You Mark) carried out via micro camera on the laser source, that allows to show the marking area directly on a PC screen.

(It is an exclusive Automator features, subject to an international patent granted)

Facilitated positioning of the piece to be marked

TILING

Automatic cutting and reconstruction of the image by the software to create big size marking (potentially even several square meters) both on X / Y axes and rotary Theta axis (marking on cylindrical parts).

FOCAL DISTANCE ADJUSTMENT

AUTOFOCUS

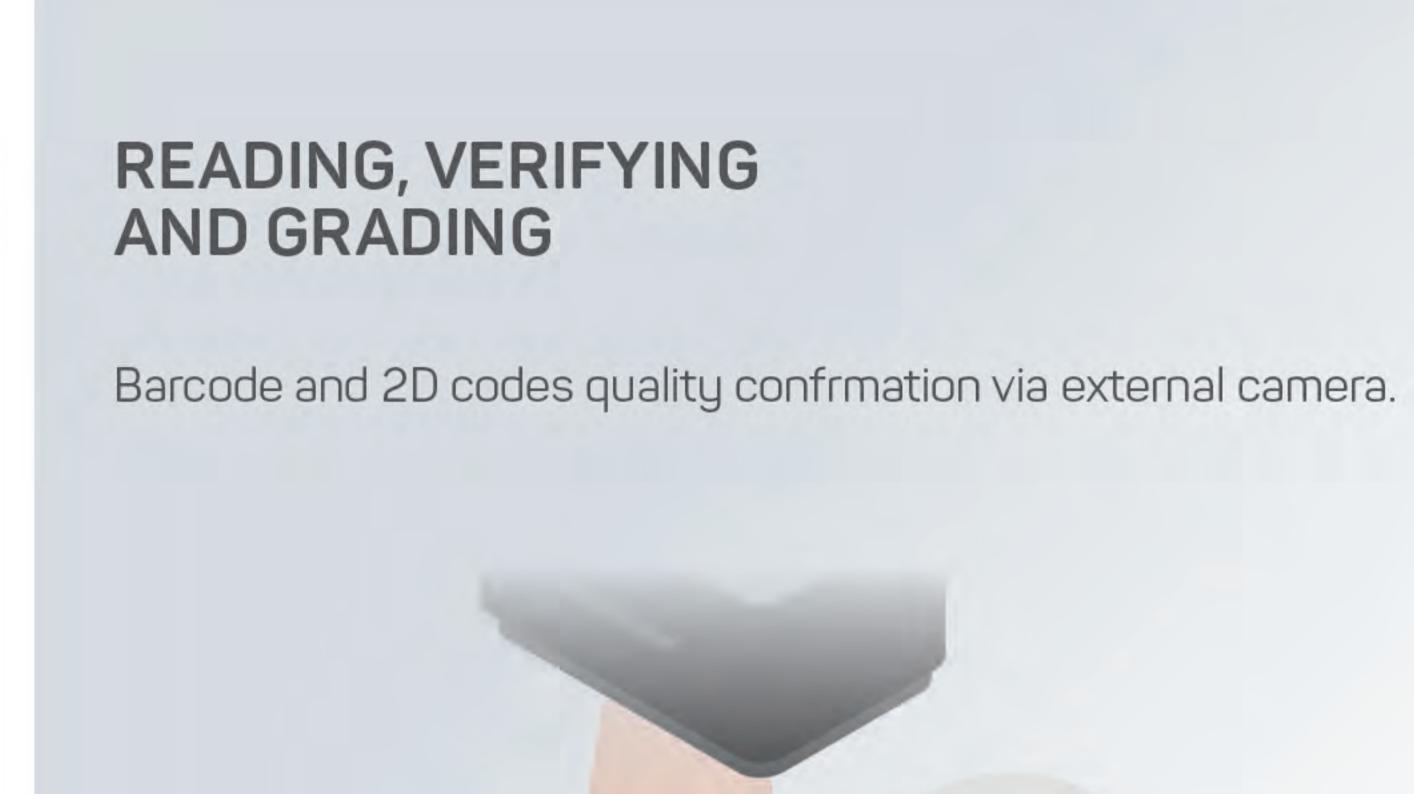**DOUBLE LASER POINTER SYSTEM** for visually identifying the correct focal distance.

DETECTION AND CORRECTION of the changes in the positioning of the piece on the marking area.

AUTOFOCUS
Focal lenght measurement system by interfaceable software with controlled axis.

READING, VERIFYING AND GRADING

Barcode and 2D codes quality confirmation via external camera.

PRODUCT IDENTIFICATION

An external camera reads the profile of the piece and suggests to the system the program in which the piece was registered.

JOB 1 - KNOB

JOB 2 - NUT

JOB 3 - SCREWDRIVER

JOB 4 - SCREW

THE CAMERA RECOGNIZES THE OBJECT AND ITS COORDINATES

In space and synchronizes the marking program with the new coordinates of the object.

MARK HERE

MARK HERE

MARKING CHECK
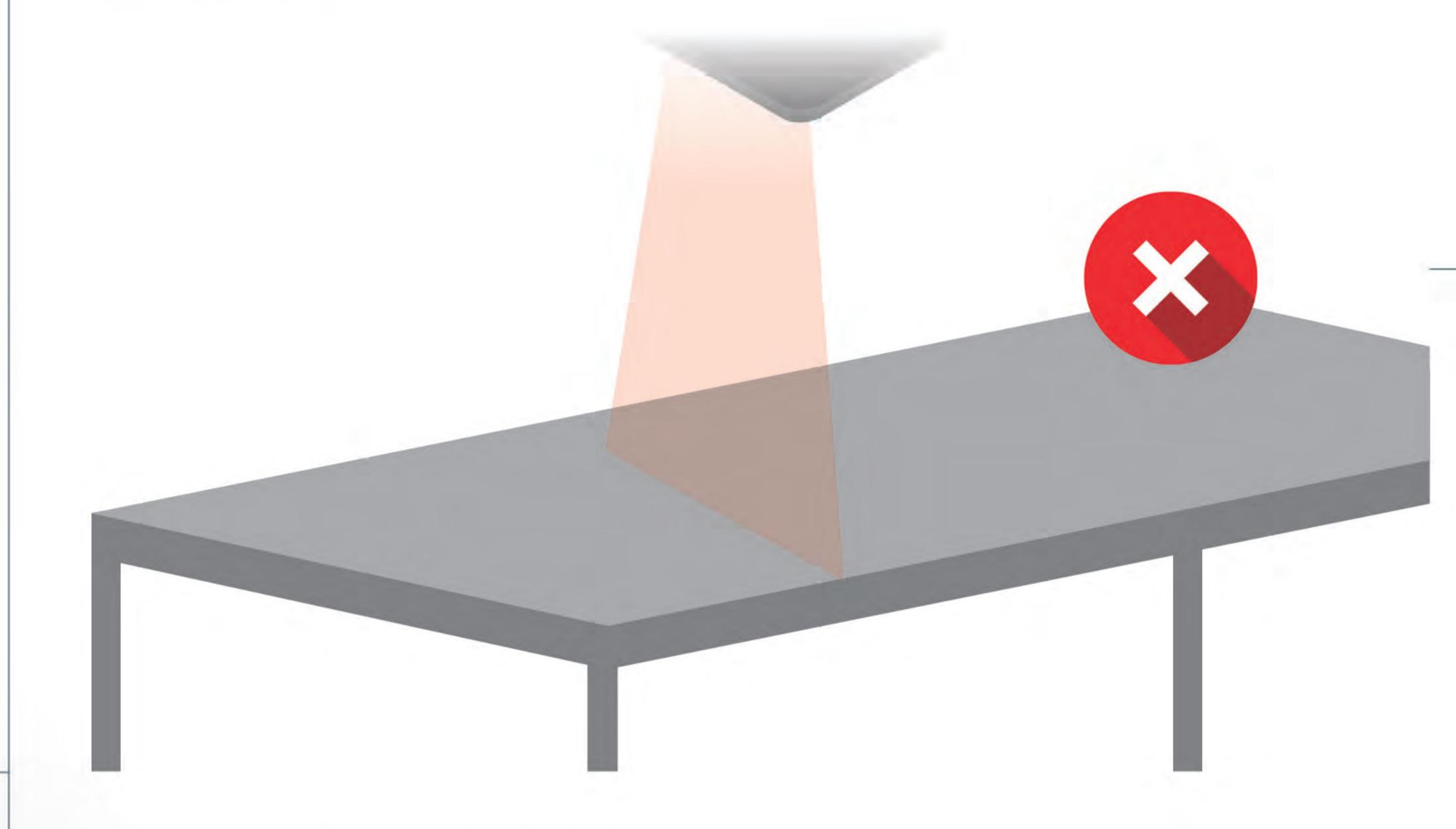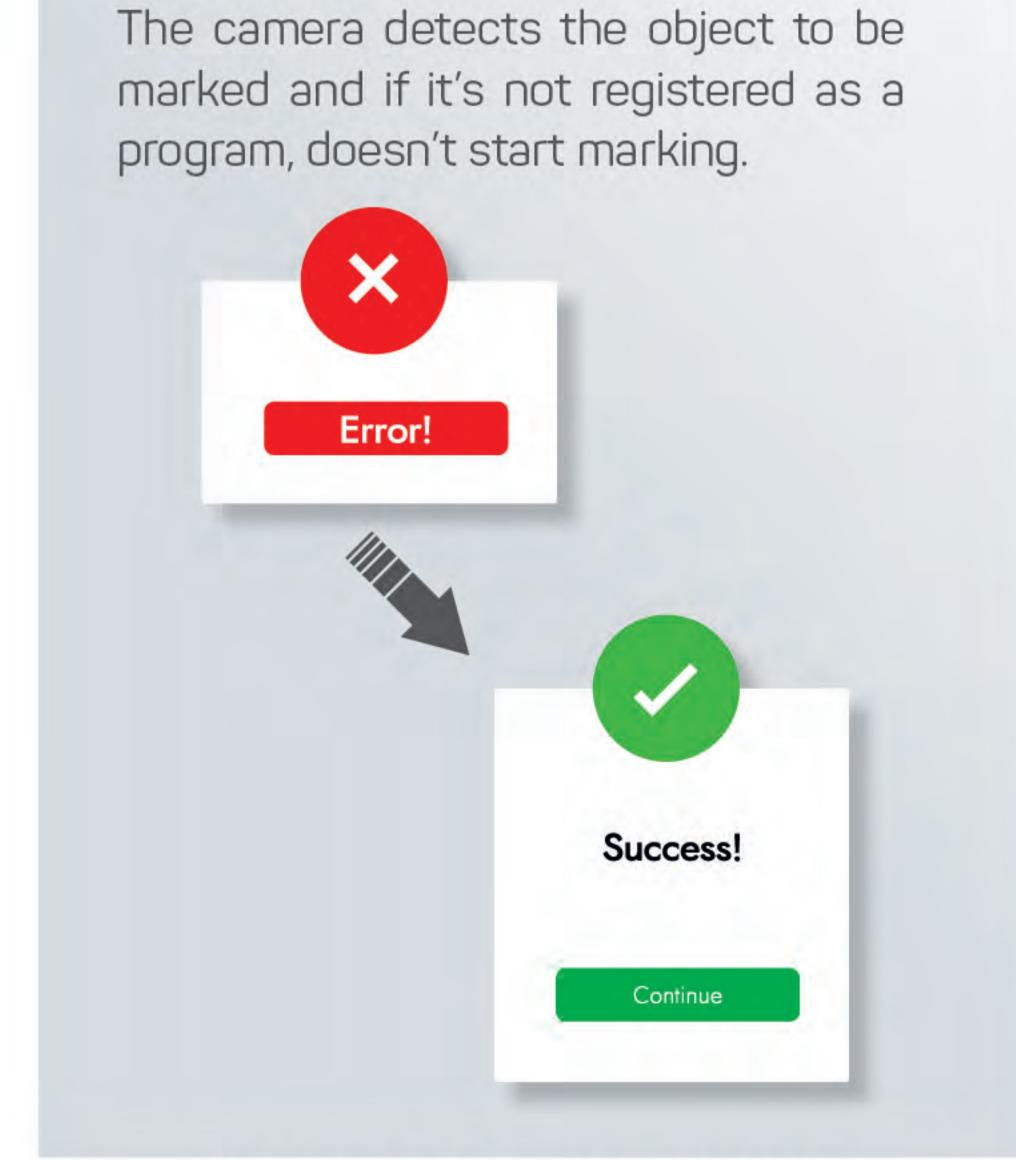
(Valid only with 1D and 2D codes)

0 531972 681724 >

PIECE PRESENCE DETECTION
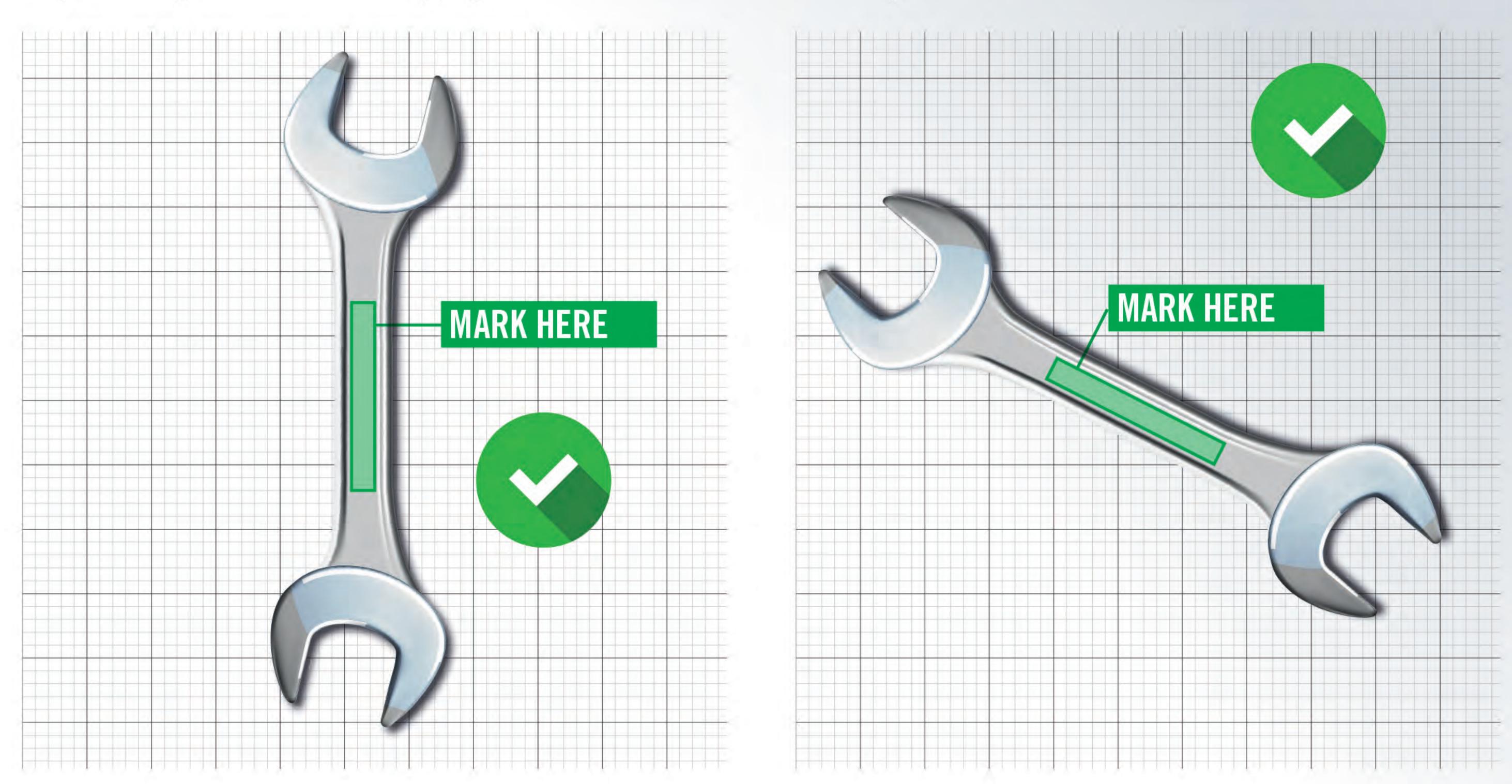
The camera and software detect the presence or absence of the piece.
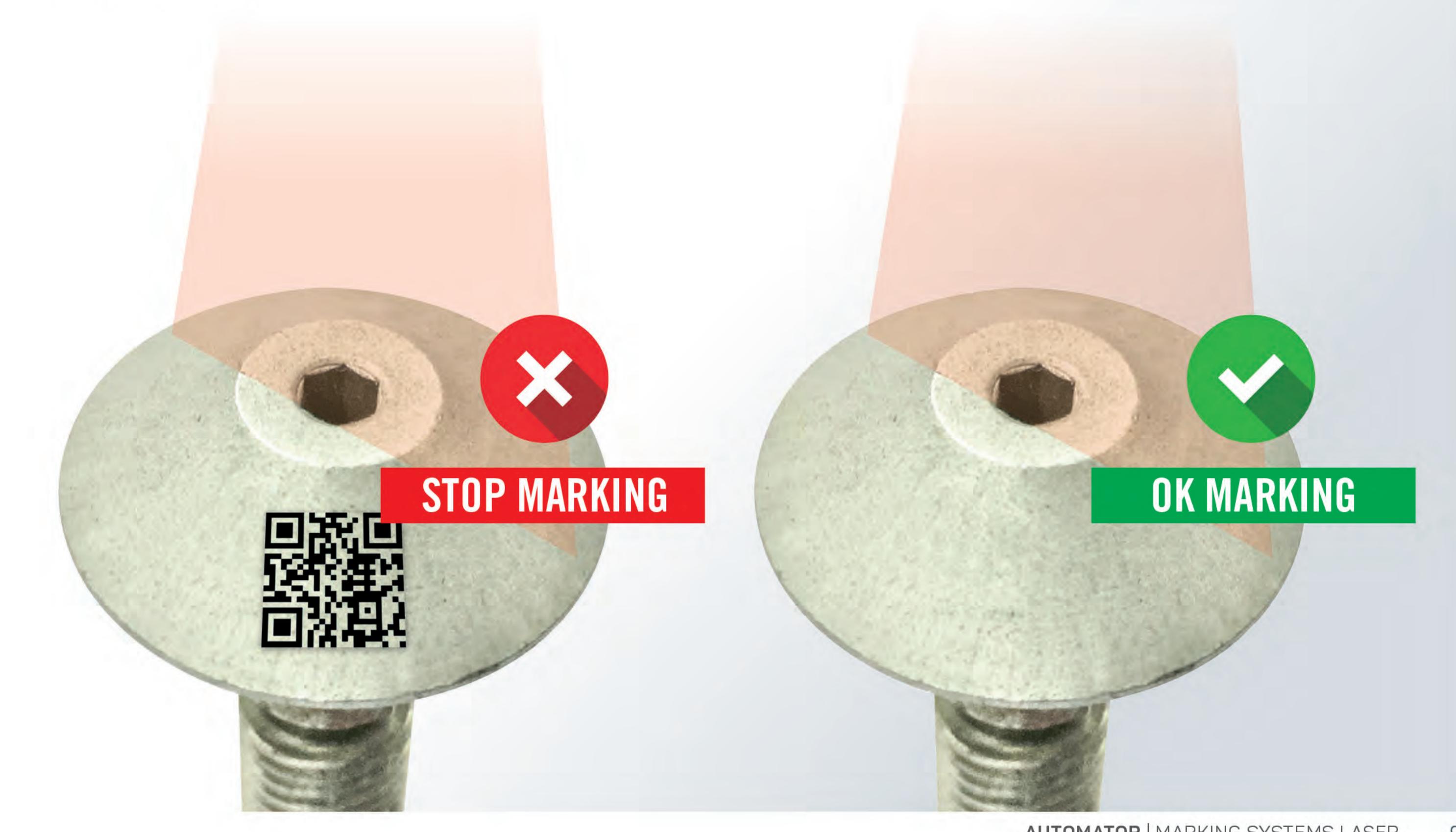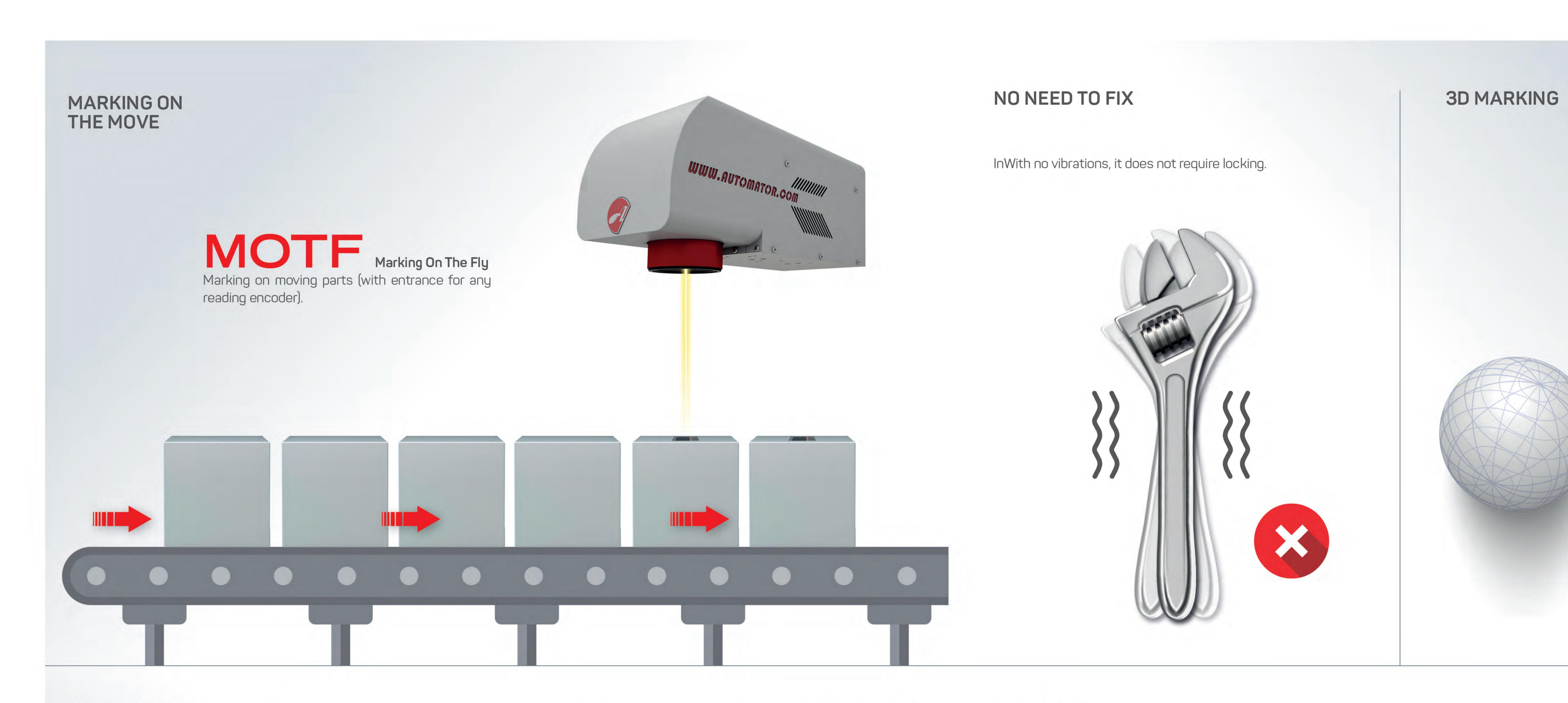
PREVENTION OF DOUBLE MARKING:

(valid for 1D and 2D codes)

STOP MARKING

OK MARKING

ERRORS REMOVAL

The camera detects the object to be marked and if it's not registered as a program, doesn't start marking.

Error!

Success!

Continue

MARKING ON THE MOVE

MOTF
Marking On The Fly

Marking on moving parts (with entrance for any reading encoder).

NO NEED TO FIX

InWith no vibrations, it does not require locking.

3D MARKING

MARKING ON IRREGULAR PARTS

Automator laser lenses allow you to "compensate" the irregularity of the piece to be marked for getting a perfect marking without using a 3D system.

TRADITIONAL WAY	AUTOMATOR WAY

ASSISTANCE

To be sure that our machines always work at maximum efficiency, we offer our customers constant assistance.

REMOTE MANAGEMENT	REMOTE SUPPORT	REMOTE TRAINING
from inside the factory or from other plants	from the parent company	from the parent company

EuGENIUS™
Laser Marking Software

THE SOFTWARE DESIGNED FOR OUR LASERS

The **EuGenius** Software was designed and developed by a Automator's highly specialized team, consolidating the demands marked in l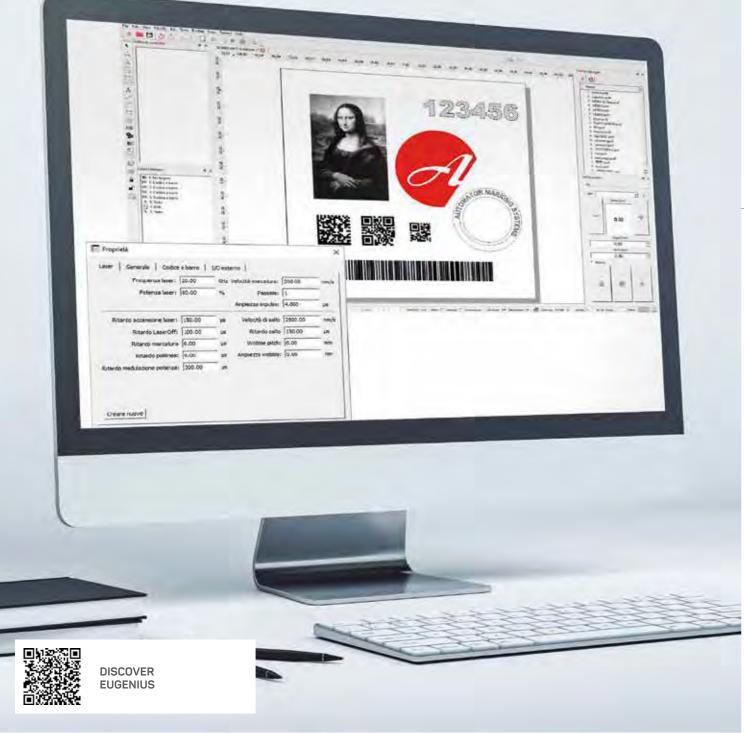ong marking know-how term, for over 80 years. Versatile in applications, **EuGenius** is easy to use, even by operators without specific technical training or CAD knowledge.

MAIN FEATURES:

- Multilanguage menu
- Management of barcode "Datamatrix", 2D code, QR code, PDF Queues
- Easy import of vector drawings, DXF
- Barcode management and selection: Code 2 of 5 interleaved, code 39 (ISO 16388), Code 39 extended, EAN, EAN-128, Codebar, Code 128 (ISO 15417), Code 93, UPC-A, UPC-E, Postnet, PDF417 (ISO 15438), PDF417 Truncated, QR Code (ISO 18004), Code ISBN, DataMatrix Code (ISO 16022), Micro QR Code, HIBC
- Easy import of raster graphics, BMP, JPEG, .JPG, GIF
- Complete set of laser parameters such as speed or power laser
- Texts, Text arcs, text on curved lines,
- Lines, rectangles, polygons, circles and arcs
- TTF Font ® (windows property)
- Graphic preview
- Texts with date, serial numbers, shift codes and year/month/day
- Multi fillings or single profile markings
- Templates (object to be marked as background)
- Proportion scale, move, rotate, group creation of each object on the screen

- Quick Test for an easy identification of the best laser parameters
- Automation & object tiling
- External axis commanded by software
- Shutter control
- Easy diagnosis of troubleshootings
- Markings with filling or only profile or only filling
- Template (object to be marked as background)
- Interfacing with automatic tag loading / unloading system ATF Automator, specific for marking plates
- Proprietary communication protocol TCP / IP and RS232
- Integrated automation features to integrate into the software EuGenius
- Proportion in scale, movement, rotation, group creation each object on the screen
- Quick test for a simple identification of the more correct setting parameters
- "Axes controlled in manual, semi-automatic and automatic mode from the software "
- Shutter control

AVAILABLE SOFTWARE OPTIONALS:

STAND-ALONE MODE

Designed for using the laser without a PC. It also includes:

- Hardware with binary choice up to 31 programs
- External control panel for manual control (optional)
- TTF font
- Automatically variable text
- XY, Zeta, Theta axis control optional
- Program control via I / O
- Proprietary communication protocol via serial or Ethernet
- **All these options can work at the same time**

FIELDBUS COMMUNICATION PROTOCOLS
(ONLY ON STAN-ALONE MODE)

- **PROFINET** is an industry technical standard for data communication on Industrial Ethernet, designed for data collecting and controlling of equipment in industrial systems.
- **ETHERNET IP** is a technical standard for the communication of data on Industrial Ethernet, designed for data collecting and equipment controlling in industrial systems. BACnet / IP, CC-Link, IE Field, Common Ethernet, EtherCAT, EtherNet / IP, Modbus, TCP, Powerlink Profinet-IRT.
- **FIELDBUS** is a technical standard for data communication, designed for data collecting and equipment controlling in industrial systems: CC-Link, DeviceNet, Profibus, CANopen.

SQL CLIENT (INDUSTRY 4.0)

Integrated database software development. This feature enables the EuGenius software the ability to connect directly to a Microsoft SQL Server, without help of additional external softwares, to fetch information on the JOB to be loaded, quantity and contents to mark, as well as save on the DB itself the marking history.
Thanks to different options configuration, this feature ensures a flexible interface with different working modes with user friendly and safe interface for the marking system with the DB.

DISCOVER EUGENIUS

nanoVISII A-WAVE™

THE SMALLEST MARKING LASER IN THE WORLD!

A revolution in the world of laser marking: nanoVISII, with automatic regulation of frequency, marks up to 20W.
That allows to generate great economies of scale and let nanoVIS to have high performance but to be a low cost laser.

SAFETY CLASS: **4**

"ALL IN ONE" INNOVATIVE LASER UNIT

"All in one" – robust, compact and modular laser head with different housings for each component:

- Galvanometric head
- Laser source
- Electronic components
- Shutter

All housed separately, inside a modular box which allows easy access to all these components.
New preliminary diagnostics LED system.

TECHNICAL DATA	
Dimensions	327,7x165x202,6 mm
Weight	7,7 kg
Materials	Plastic Materials, Metals, Wood, Anodized Ceramic, Painted Silicon Paper / Cardboard Leather Gold / Silver / Palladium Organic
Certifications	ISO 9001

LENSES	MARKING AREA	FOCUS DISTANCE
Lens standard **F160**	110x110 mm	198 mm
Lens **F100**	60x60 mm	120 mm
Lens **F254**	155x155 mm	302 mm
Lens **F330**	200x200 mm	390 mm
Lens **F420**	300x300 mm	490 mm

LASER WITH A NEW TECHNOLOGY

Class 4 safety laser system, for integration in line, extremely compact and lightweight, for marking, engraving, stamping all materials. nanoVISII is easy to install and use with the new marking software EuGeniusTM, up to 32 auxiliary axis and infinite combinations for integration with robot or PLC; with preliminary diagnostic system by LED indicators.

MECHANICAL SHUTTER: SAFETY FIRST

SHUTTER SIL3

Like all second generation Automator lasers (Gen II), nanoVISII is equipped with a CE marked safety dual contact mechanical shutter, which allows the laser to achieve a SIL3 – PLE safety grade, the highest degree of security for a laser device.

AUTOMATOR EUGENIUS™ SOFTWARE

nanoVISII is driven by the Automator EuGENIUS™ software, versatile in applications and easy to use, even by operators without specific technical training or CAD knowledge.

LAN port
USB Port
I/O Laser
Marking on the fly MOTF
Motor
Power supply
Air vent
Air vent

VISII

20W
30W

EXTREMELY COMPACT AND LIGHTWEIGHT UNIT FOR INTEGRATIONS IN LINE

The optimized marking head is the result of Automator's over twenty years of experience in the laser marking segment: a single small body containing source, electronic components, galvo system and optics, easy to integrate, install and use.

SAFETY CLASS: **4**

SECOND GENERATION LASER DEVICE IN SAFETY CLASS 4

- Standard sources: Yag / IVO4 laser
- Available powers: 20W - 30W
- Easy to install and use with the new EuGeniusTM marking software
- Up to 32 auxiliary axis and infinite combinations for integration with robots or PLCs
- Preliminary diagnostic system with LED indicators

TECHNICAL DATA	
Dimensions	485x202x163 mm
Weight	12,1 kg
Materials	Plastic Metals Woods Anodized Ceramics Painted Silicon Gold / Silver / Palladium Other materials
Certifications	ISO 9001

LENSES	MARKING AREA	FOCUS DISTANCE
Lens standard **F160**	110x110 mm	198 mm
Lens **F100**	60x60 mm	120 mm
Lens **F254**	155x155 mm	302 mm
Lens **F330**	200x200 mm	390 mm
Lens **F420**	300x300 mm	490 mm

LAN port · USB Port · I/O Laser

Marking on the fly MOTF

Motor

Power supply

Air vent

Air vent

MECHANICAL SHUTTER: SAFETY FIRST

SHUTTER SIL3

Like all second generation Automator lasers (Gen II), VISII is equipped with a CE marked safety dual contact mechanical shutter, which allows the laser to achieve a SIL3 – PLE safety grade, the highest degree of security for a laser device.

AUTOMATOR EUGENIUS™ SOFTWARE

VISII is driven by the Automator EuGENIUS™ software, versatile in applications and easy to use, even by operators without specific technical training or CAD knowledge.

greenVISII | 5W

COMPACT AND LIGHTWEIGHT UNIT

The optimized marking head is the result of Automator's over twenty years of experience in laser marking segment: a single small body that contains the source, electronic components, galvo system and optics, easy to integrate, install and use.

SAFETY CLASS: **4**

SECOND GENERATION LASER DEVICE IN SAFETY CLASS 4

- Standard source: green Yag / IVO4 laser
- Available powers: 5W-10W
- Standard marking area 110 × 110 mm (other marking areas available)
- Mechanical shutter, because safety always comes first

021 >PC< L

MECHANICAL SHUTTER: SAFETY FIRST

SHUTTER SIL3

Like all second generation Automator lasers (Gen II), greenVISII is equipped with a CE marked safety dual contact mechanical shutter, which allows the laser to achieve a SIL3 – PLE safety grade, the highest degree of security for a laser device.

AUTOMATOR EUGENIUS™ SOFTWARE

greenVISII is driven by the Automator EuGENIUS™ software, versatile in applications and easy to use, even by operators without specific technical training or CAD knowledge.

TECHNICAL DATA	
Dimensions	485x202x163 mm
Weight	12,1 Kg
Materials	Plastics Metals Rubber Anodized Ceramics Painted Silicon Organics
Certifications	ISO 9001

LENSES	MARKING AREA	FOCUS DISTANCE
Lens standard **F160**	110x110 mm	198 mm
Lens **F100**	60x60 mm	120 mm
Lens **F254**	155x155 mm	302 mm
Lens **F330**	200x200 mm	390 mm
Lens **F420**	300x300 mm	490 mm

LAN port
USB Port
I/O Laser

Marking on the fly MOTF

Power supply

Air vent

Air vent

COLIBRÌ

21W
32W

PRECISE AND FLEXIBLE PORTABLE LASER

COLIBRÌ is the only portable Safety Class 1 laser on the market.
It definitely solves the problem of larger pieces and components, allowing to easily mark bulky objects and in total safety.

SAFETY CLASS: **1**

MODULAR SYSTEM

The main box sets the source and the board with the electronic parts in two different separated areas.
The galvanometers are sets, with the lenses in the head block.

TECHNICAL DATA	
Dimensions	465x497x142 mm
Weight	3kg
Materials	Plastics Metals Wood Anodized Ceramics Painted Silicon Leather Gold / Silver / Palladium Organics Other materials
Certifications	ISO 9001, ISO 45100

LENSES	MARKING AREA	FOCUS DISTANCE
Lens standard **F160**	Ø 110 mm	190 mm
Lens **F100**	Ø 60 mm	120 mm

8" LCD SCREEN

COLIBRÌ sets an LCD 8" touchscreen, that allows to manage marking operations and programs thanks to the easy and intuitive software.

CLASS 1: SAFETY FIRST

COLIBRÌ is the only portable laser in Safety Class 1, thanks to the PATENTED system, which allows to use the laser in portable mode without any risk.
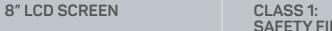
Galvos and lenses

Patented Automator safety class 1 system

Light and compact portable marking head: less than 3 kg

Head/Source cable

FYBRA II

21W
31W
52W
62W
82W
100W

HIGH POWER AND PRECISION ACTIVE FIBER LASER

FYBRAII is the second generation (Generation II) of the Automator top selling active fiber laser for marking in industrial environments. FYBRAII generates a high power laser beam from the source to the head via a flexible fiber cable. The innovative main block and the head are designed and optimized to work in a heavy duty work environment, where vibrations, disturbance and dust are very common.

SAFETY CLASS: **4**

IDEAL FOR DEEP AND PRECISE MARKINGS

The main box sets the source and the board with the electronic parts in two different separated areas. The galvanometers are sets, with the lenses in the head block.

SECOND GENERATION LASER DEVICE IN SAFETY CLASS 4
- Easy to install and use with the new EuGenius marking software
- Up to 32 auxiliary axis and infinite combinations for integration with robots or PLCs
- Maximum degree of safety with the dual channel mechanical shutter safety system

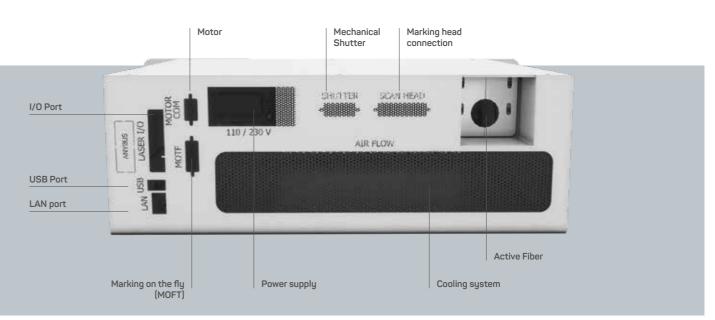| TECHNICAL DATA	
Dimensions	465x497x142 mm
Weight	23,5kg
Materials	Plastics Metals Wood Anodized Ceramics Painted Silicon Leather Gold / Silver / Palladium Organics Other materials
Certifications	ISO 9001, ISO 45100

LENSES	MARKING AREA	FOCUS DISTANCE
Lens standard **F160**	110x110 mm	198 mm
Lens **F100**	60x60 mm	120 mm
Lens **F254**	155x155 mm	302 mm
Lens **F330**	200x200 mm	390 mm
Lens **F420**	300x300 mm	490 mm

MODULAR SYSTEM:

The main box sets the source and the board with the electronic parts in two different separated areas.
The galvanometers are sets, with the lenses in the head block.

MECHANICAL SHUTTER: SAFETY FIRST

SHUTTER SIL3

Like all second generation Automator lasers (Gen II), FYBRAII is equipped with a CE marked safety dual contact mechanical shutter, which allows the laser to achieve a SIL3 – PLE safety grade, the highest degree of security for a laser device.

Motor
Mechanical Shutter
Marking head connection

I/O Port
110 / 230 V
AIR FLOW

USB Port
LAN port

Marking on the fly (MOFT)
Power supply
Cooling system
Active Fiber

MOPAII

20W
70W

FOR MARKING COLORS ON STEEL SURFACES

Highly innovative laser marking system:
- Color marking on steel surfaces
- Pure touch zero black marking with maximum precision (annealing)
- Perfect for marking udi codes - zero roughness

SAFETY CLASS: 4

NEW SYSTEM FOR HIGH POWER PRECISION LASER MARKING

MOPAII generates a high power laser beam from the source to the head via a flexible fiber cable. The innovative main block and the head are designed and optimized to work in a heavy duty work environment, where vibrations, disturbance and dust are very common. Perfect for clear and perfect black codes markings.

TECHNICAL DATA	
Dimensions	465x497x142 mm
Weight	23,5kg
Materials	Plastics Metals Wood Anodized Ceramics Painted Silicon Leather Gold / Silver / Palladium Organics Other materials
Certifications	ISO 9001, ISO 45100

LENSES	MARKING AREA	FOCUS DISTANCE
Lens standard **F160**	110x110 mm	198 mm
Lens **F100**	60x60 mm	120 mm
Lens **F254**	155x155 mm	302 mm
Lens **F330**	200x200 mm	390 mm
Lens **F420**	300x300 mm	490 mm

MODULAR SYSTEM:

The main box sets the source and the board with the electronic parts in two different separated areas.
The galvanometers are sets, with the lenses in the head block.

INCREASED POWER SOURCE:

Fiber lasers allow for considerable increase in source power, without compromising the laser point size.
This guarantees a clear and precise marking result at higher powers and high efficiency of the system.

[01]02884538087103

Motor
Mechanical Shutter
Collegamento testa di marcatura
I/O Port
MOTOR COM
SHUTTER
SCAN HEAD
SHUTTER
LASER I/O
110 / 230 V
AIR FLOW
USB Port
MOTF
LAN USB
LAN port
Marking on the fly (MOFT)
Power supply
Cooling system
Active Fiber

ALPHAII CO$_2$

10W
25W
50W
100W

CO2 LASER IDEAL FOR MARKING GLASS, PLASTICS AND WOOD

System designed for in-line integrations, sets a laser source with scanning head, optics and electronic parts.

SAFETY CLASS: **4**

Class 4 CO$_2$ laser system, extremely light and solid including laser source and gavanometric head with optics and electronic components
- laser CO$_2$ for marking on wood, organic materials and plastics
- Intra for marking transparent plastics
- Green for marking plastics

TECHNICAL DATA	
Dimensions	482x177,8x450 mm
Weight	
Materials	Glass Plastics Rubber Wood Ceramics Painted Silicon Paper / Cardboard
Certifications	ISO 9001, ISO 45100

LENSES	MARKING AREA	FOCUS DISTANCE
Lens standard **F200**	140X140 mm	230 mm
Lens **F100**	70X70 mm	100 mm
Lens **F300**	210X210 mm	350 mm
Lens **F435**	300X300 mm	550 mm

AUTOMATOR EUGENIUS™ SOFTWARE

ALPHA CO$_2$ is driven by the Automator EuGENIUS™ software, versatile in applications and easy to use, even by operators without specific technical training or CAD knowledge.

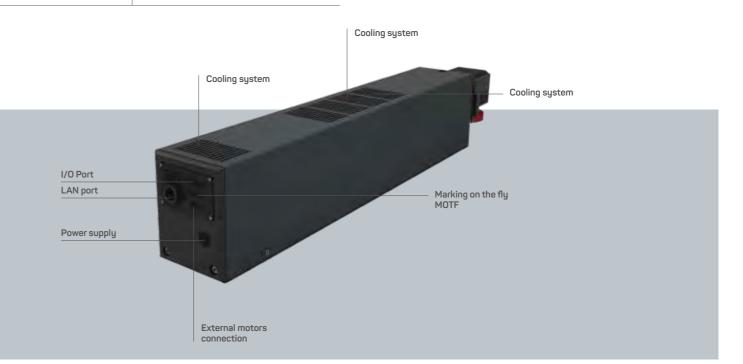Cooling system

Cooling system

Cooling system

I/O Port

LAN port

Power supply

External motors connection

Marking on the fly MOTF

UBI
Basic

A-WAVE™

CLASS 1 LASER SYSTEM

Laser marking system for small and medium productions, including Micro aWave source that allows to create markings comparable to a 20W fiber laser on many materials.
The external protective structure is extremely compact, ideal to be used on a workbench.

SAFETY CLASS: **1**

LOADING AREA: 340x550 mm

LASER TECHNOLOGY WITH SELF ADJUSTMENT OF FREQUENCY

Revolutionary new laser technology with self-adjusting frequency.
Belonging to the new family of a-Wave™ products, the UBI Basic laser source can reach results comparable to a 20W fiber laser.

Excellent results on plastics, metals, anodized, ceramic, polycarbonate, painted and much more.
Inside the cabinet, the laser source is equipped with a visible red light at 632 nm, with a 2 mW power, used as a pointer, for previewing the marking area directly on the surface of the piece to be marked.

TECHNICAL DATA	
Dimensions	670x440x705 mm
Weight	42 Kg
Loading area	340x550 mm
Certifications	ISO 9001, ISO 45100

LENSES	LOADING AREA	FOCAL DISTANCE	MAXIMUM MARKABLE PIECE HEIGHT
Lens **F100**	Flat field 60x60 mm	177 mm	100 mm
Lens **F160**	Flat field 110x110 mm	198 mm	125 mm
Lens **F254**	Flat field 155x155 mm	301 mm	20 mm

MOTORIZED Z AXIS

UBI Basic is equipped with a marking plan that can move vertically thanks to a motorized Z axis. The operator can move the piece to be marked far or close to te laser lens for getting the correct focus distance. It's 200 × 200 mm plan and is suitable for pieces with a maximum weight of 5 Kg.

AUTOMATOR EUGENIUS™ SOFTWARE

UBI Basic is driven by the Automator EuGENIUS™ software, versatile in applications and easy to use, even by operators without specific technical training or CAD knowledge.
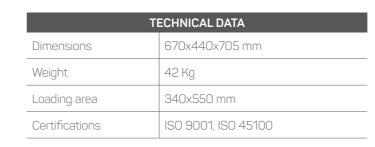
MECHANICAL SHUTTER: SAFETY FIRST

SHUTTER SIL3

Like all second generation Automator lasers (Gen II), UBI Basic is equipped with a CE marked safety dual contact mechanical shutter, which allows the laser to achieve a SIL3 – PLE safety grade, the highest degree of security for a laser device.

Fume extractor connection

Air vent

Wide CE certificated shielded windows on three sides

Integrated aWave™ marking laser

200x200 mm loading platform, with motorized Z axis

Frontal buttons

Loading area: 340x550 mm

RJ45 R7B Port

ON/OFF

Power supply

ARENA

THE SMALL AND COMPACT WORKSTATION

Bench cabinet for laser marking with automatic or manual front opening door and large inspection window, for checking the marking area.

SAFETY CLASS: **1**

LOADING AREA: 550x440 mm

ARENA CAN SET ALL AUTOMATOR LASER SOURCES

The EuGENIUS™ software allows to mark anything, including complex logos, numbers and datamatrix.

TECHNICAL DATA	
Dimensions	727x545x756 mm
Weight	56 Kg
Loading area	550x440 mm
Loading area with software driven Z axis (mm):	545x435 mm
Certifications	ISO 9001, ISO 45100

LENSES	LOADING AREA	FOCAL DISTANCE	MAXIMUM MARKABLE PIECE HEIGHT
Lens **F100**	Flat field 60x60 mm	120 mm	267 mm
Lens **F160**	Flat field 110x110 mm	177 mm	210 mm
Lens **F254**	Flat field 155x155 mm	301 mm	110 mm

Manual or software driven opening door

Loading area: 550x440 mm

Controller connection

Air supply (only with pneumatic opening door)

Ethernet Port

A COMPLETE MARKING SYSTEM

Designed for medium productions, ARENA is very small and compact and allows for laser engraving in total safety.
The opening of the front door is automatic by pneumatic system; or manual, for applications where compressed air is not available, such as small workshops or offices.

MECHANICAL SHUTTER: SAFETY FIRST

SHUTTER SIL3

Like all second generation Automator lasers (Gen II), ARENA is equipped with a CE marked safety dual contact mechanical shutter, which allows the laser to achieve a SIL3 – PLE safety grade, the highest degree of security for a laser device.

IDEO

SAFETY CLASS 1 DEVICE

Laser marking system with manual or pneumatic frontal opening door and a large loading area, with standard software driven X and Z axis. Designed for medium productions, **IDEO** is a complete, stand-alone, flexible marking system, easy to use, which can perfectly fit simple or massive production applications.
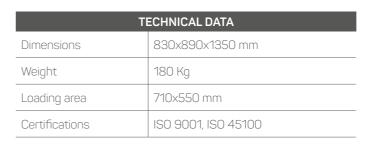
SAFETY CLASS: 1

LOADING AREA: **340x340mm standard** (Other loading areas availabe)

STANDARD AVAILABLE LASER SOURCES:

- **aWave** for marking all materials, costt-effective marking solution
- **IVO4** for marking metals, anodized, painted, and non-transparent plastics
- **Intra** for marking transparent plastics
- **Green** for marking plastics

TECHNICAL DATA	
Dimensions	830x890x1350 mm
Weight	180 Kg
Loading area	710x550 mm
Certifications	ISO 9001, ISO 45100

LENSES	LOADING AREA	FOCAL DISTANCE	MAXIMUM MARKABLE PIECE HEIGHT
Lens **F100**	Flat field 60x60 mm	120 mm	600 mm
Lens **F160**	Flat field 110x110 mm	190 mm	500 mm
Lens **F254**	Flat field 155x155 mm	295 mm	400 mm
Lens **F330**	Flat field 200x200 mm	390 mm	300 mm
Lens **F420**	Flat field 300x300 mm	520 mm	200 mm

PERFECT FOR ALL MARKING NEEDS

On the front door, that can be opened completely on three sides, the large windows allow the operator to check the laser marking activity, but it can be set also with the new SWYM Automator vision system to control the marking activity directly on the PC screen.
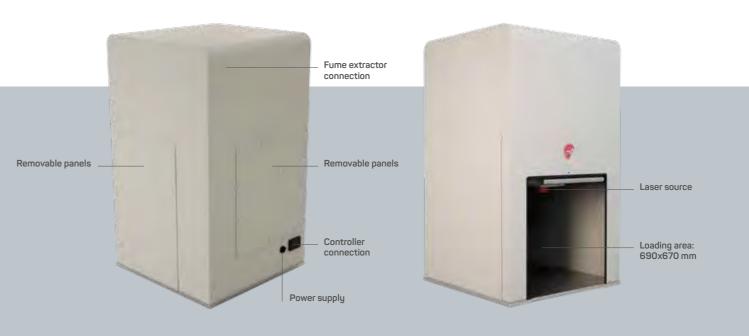Also available with optional automatic Y axis.

MECHANICAL SHUTTER: SAFETY FIRST

SHUTTER SIL3

Like all second generation Automator lasers (Gen II), IDEO is equipped with a CE marked safety dual contact mechanical shutter, which allows the laser to achieve a SIL3 – PLE safety grade, the highest degree of security for a laser device.

Fume extractor connection

Air and power suply

Air cooling

Wide glass opening door

Software driven 800 mm Z axis

Frontal console

PRIMA

BENCHTOP LASER MARKING SYSTEM

PRIMA allows to mark, stamp and engrave all materials larger sizes products or components, even on production lines.

SAFETY CLASS: **1**

LOADING AREA: **340x340mm standard** (other marking areas available)

AVAILABLE LASER SOURCE

- **aWave™** cost-effective laser marking solution to mark almost any material
- **IVO4** to mark metals, anodized, painted and some types of non-transparent plastics
- **Intra** for marking transparent plastics
- **CO_2** for marking organic and plastic materials
- **Green** for marking plastics

TECHNICAL DATA	
Dimensions	710x710x1215 mm
Weight	70 kg
Loading area	690x670 mm
Certifications	ISO 9001, ISO 45100

LENSES	LOADING AREA	FOCAL DISTANCE	MAXIMUM MARKABLE PIECE HEIGHT
Lens **F100**	Flat field 60x60 mm	120 mm	600 mm
Lens **F160**	Flat field 110x110 mm	177 mm	500 mm
Lens **F254**	Flat field 155x155 mm	301 mm	400 mm
Lens **F330**	Flat field 200x200 mm	390 mm	300 mm
Lens **F420**	Flat field 300x300 mm	520 mm	200 mm

PERFECT FOR ALL MARKING NEEDS

Bench structure with front opening and large inspection window with protective filter, equipped with Command box, with start / stop buttons and manual 200 mm high Zeta axis. Do you need a bench laser structure that can be integrated into the production line? Available with removable side panels or with automatic side doors.

MECHANICAL SHUTTER: SAFETY FIRST

SHUTTER SIL3

Like all second generation Automator lasers (Gen II), PRIMA is equipped with a CE marked safety dual contact mechanical shutter, which allows the laser to achieve a SIL3 – PLE safety grade, the highest degree of security for a laser device.

Fume extractor connection

Removable panels

Removable panels

Controller connection

Laser source

Power supply

Loading area: 690x670 mm

AURA

SAFETY CLASS 1 DEVICE

Laser marking system with manual or pneumatic frontal opening door and a large loading area, with standard software driven X / Y / Z axis. Designed for medium and large productions, AURA is a complete, stand-alone, flexible marking system, easy to use, which can perfectly fit simple or massive production line applications.
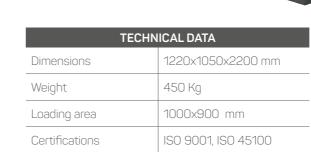
SAFETY CLASS: **1**

LOADING AREA: 1000x900 mm

It is a Class 1 device.
On the front door, a large window allows the operator to check the marking activity laser, but it can also be set with the new SWYMR Automator Vision System to check the marking activity directly on a PC screen.

TECHNICAL DATA	
Dimensions	1220x1050x2200 mm
Weight	450 Kg
Loading area	1000x900 mm
Certifications	ISO 9001, ISO 45100

LENSES	LOADING AREA	FOCAL DISTANCE	MAXIMUM MARKABLE PIECE HEIGHT	MAXIMUM MARKABLE AREA
Lens **F100**	Flat field 60x60 mm	1208 mm	840 mm	600x650 mm*
Lens **F160**	Flat field 110x110mm	177 mm	783 mm	600x650 mm*
Lens **F254**	Flat field 155x155 mm	301 mm	659 mm	600x650 mm*
Lens **F330**	Flat field 200x200 mm	390 mm	570 mm	600x650 mm*
Lens **F420**	Flat field 300x300 mm	520 mm	440 mm	600x650 mm*

Z axis stroke: 450 mm
* It can vary depending by the used lens

MECHANICAL SHUTTER: SAFETY FIRST

SHUTTER SIL3

Like all second generation Automator lasers (Gen II), AURA is equipped with a CE marked safety dual contact mechanical shutter, which allows the laser to achieve a SIL3 – PLE safety grade, the highest degree of security for a laser device.

Loading area: 1000x900 mm

X/Y/Z internal axis 300x450x450 mm

Frontal buttons

Cooling system

Cooling system

Power supply elettrica

Air supply (for door opening)

ACCESSORIES:

ROTATING AXIS

Auxiliary axis of rotation for marking on the circumference.

MICRO THETA
Maximum dimensions handled piece:
90 mm - 0,5 kg

MEDIUM THETA
Maximum dimensions handled piece:
80 mm - 3 kg

THETA STANDARD (with 0 point from encoder)
Maximum dimensions handled piece:
96 mm - 15 kg

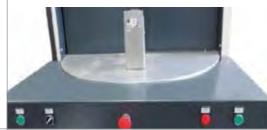## SMOKE AND DUST EXTRACTORS

They filter the marking area up to 99.9%.

LINEAR AXIS

They allow the laser to move in space for marking larger surfaces even at different heights.
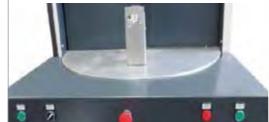
ROTATING TABLE 2/4 POSITIONS

It allows to rotate the piece to be marked on a XY plane and load the differente pieces to be marked while the laser is working on parts previously loaded.
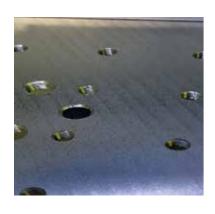
AUTOFOCUS SYSTEMS

Three different systems for detecting the focal distance of laser markers.

PROXY

Sensor that detects the presence of the piece to be marked.

TEMPLATE

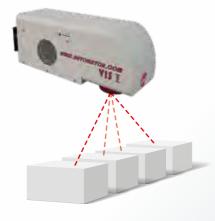Adaptable for positioning the pieces and plates to be marked.

CAMERAS

They allow to frame and view in real time the piece to be marked and the marking operations.

OPTICAL BARRIERS

They allow you to physically block any possible laser beam during marking operations (only in Class 1)

DOUBLE LASER POINTER SYSTEM for visually identifying the correct focal distance.

DETECTION AND CORRECTION of the changes in the positioning of the piece on the marking area.

AUTOFOCUS
Focal lenght measurement system by interfaceable software with controlled axis.
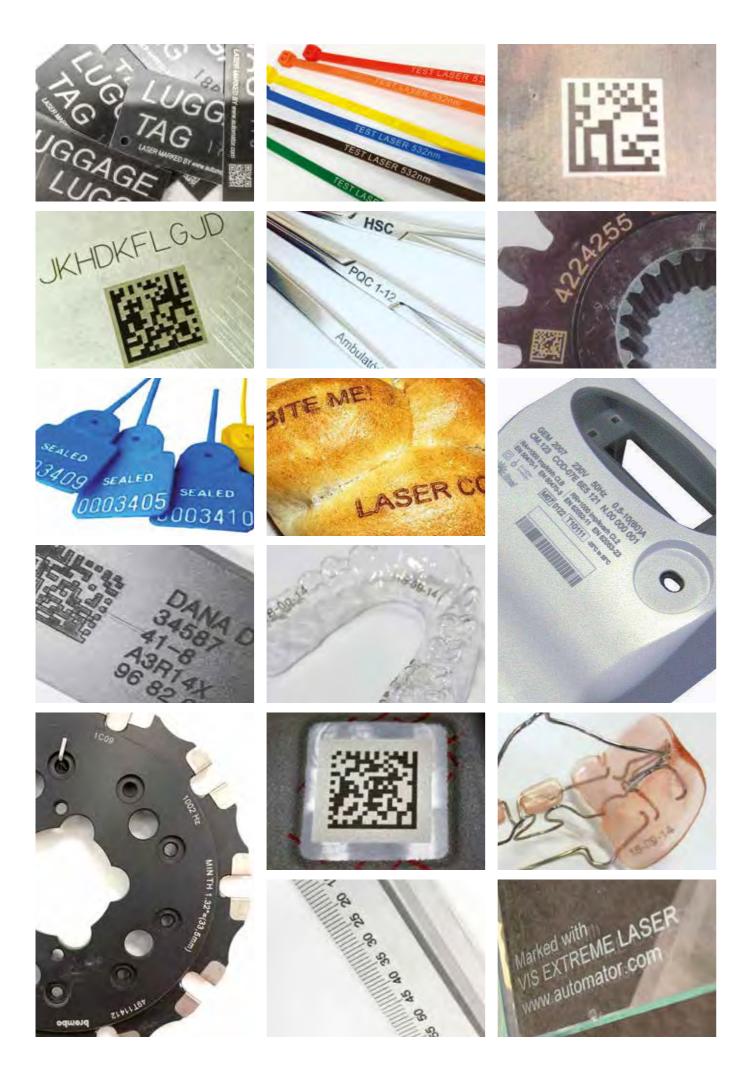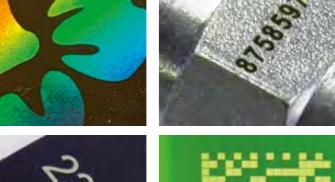
MARKINGS
ON ALL
SURFACES

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