WHY CHOOSE AUTOMATOR?

Since its founding in 1940, AUTOMATOR has been focused exclusively on Industrial Marking Products and Solutions making us the largest manufacturer of marking equipment in the world. No matter how you want to permanently identify your product, AUTOMATOR has a solution that will exceed your expectation making a mark that will enhance your part and limit your liabilities.

Our GLOBAL network of partners (not just distributors!) are available in 102 countries serving 100+ business sectors. No matter where you are in this world, we are there to support you and our marking products, birth to death.

We are your Global Marking Partner since 1940!
### ALL THE MATERIALS, ALWAYS THE PERFECT SOLUTION FOR YOUR MARKING NEEDS!

<table>
<thead>
<tr>
<th>Power</th>
<th>Source</th>
<th>Class 1 modelli</th>
<th>Class 4 modelli</th>
<th>Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 W</td>
<td>UV @ 355 nm Blue laser</td>
<td>SUPERIOR</td>
<td>ALPHA</td>
<td>Ceramic • Precious Metals • Plastics • Silicon</td>
</tr>
<tr>
<td>3-5-10 W</td>
<td>Green @ 532 nm Green laser</td>
<td>SUPERIOR • ARENA REGINA • OMEGA</td>
<td>VIS</td>
<td>Anodized • Burnished • Metals and Alloys • Plastics (not transparent) • Silicon • Painted</td>
</tr>
<tr>
<td>10-20-30-40 W</td>
<td>YVO4 @ 1064 nm</td>
<td>SUPERIOR • ARENA REGINA • OMEGA</td>
<td>VIS</td>
<td>Anodized • Burnished • Ceramic • Black Paper • Wood • Metals and Alloys • Leather • Plastics (not transparent) • Polycarbonate • Silicon • Painted</td>
</tr>
<tr>
<td>10-20 W</td>
<td>Intra @ 1064 nm</td>
<td>SUPERIOR • ARENA OMEGA</td>
<td>ALPHA</td>
<td>Transparent materials (plastics, glass,...)</td>
</tr>
<tr>
<td>22-33-54 W</td>
<td>ND:YB @ 1064 nm</td>
<td>ARENA • REGINA SUPERIOR • OMEGA</td>
<td>FYBRA</td>
<td>Anodized • Burnished • Ceramic • Wood • Metals and Alloys • Leather • Plastics (not transparent) • Polycarbonate • Silicon • Painted</td>
</tr>
<tr>
<td>10-25-50-100 W</td>
<td>CO2 @ 10640 nm</td>
<td>SUPERIOR • OMEGA</td>
<td>ALPHA</td>
<td>Anodized • Burnished • Paper • Ceramic • Wood • Plastics • Tissues • Painted • Glass</td>
</tr>
<tr>
<td>aWave Technology</td>
<td>YVO4@1060 nm</td>
<td>SUPERIOR • ARENA OMEGA REGINA</td>
<td>nanoVIS</td>
<td>Anodized • Burnished • Metals and Alloys • Plastics (not transparent) • Silicon • Painted • Woods • Ceramics</td>
</tr>
</tbody>
</table>
Designed for a variety of environments, FYBRA generates a high-power laser beam from the source to the head via a flexible fiber optic cable, that allows a considerable increase of the power, without compromising the size of the laser spot. This allows for a better marking result at higher powers and a better efficiency of the system.

**ACTIVE FIBER LASER SYSTEM**

NB:Yb @1064 nm

**Active fiber marking laser**

Materials

- Anodized metal alloys
- Burnished
- Ceramics
- Ebony
- Painted
- Plastic
- Polycarbonate
- Silicon
Softwares Genius e Nano
Page 32 for details

Optional MOTF
Marking on-the-fly

Connectivity
To the PC by Ethernet or USB

Optional autofocus
Focal distance between marking head and piece to be marked detection device

Red pointer
Marking preview

Optional axis
X/Y, Z and rotating Theta

External Power Supply
100/250 V 50/60 Hz

Signals PLC digital I/O
Diagnostics output and check input

Source
Air cooling

Lenses

<table>
<thead>
<tr>
<th>Lens</th>
<th>F100</th>
<th>F163</th>
<th>F254</th>
<th>F330</th>
<th>F420</th>
</tr>
</thead>
<tbody>
<tr>
<td>Focal lengths</td>
<td>120 mm</td>
<td>198 mm</td>
<td>302 mm</td>
<td>390 mm</td>
<td>520 mm</td>
</tr>
</tbody>
</table>

| Marking Areas | 60x60 mm | 110x110 mm | 155x155 mm | 200x200 mm | 300x300 mm |

Readers
Fixed or portable reader for QR codes, barcodes and datamatrix

Optional MOTF
Marking on-the-fly

Optional autofocus
Focal distance between marking head and piece to be marked detection device

Optional axis
X/Y, Z and rotating Theta

Source
Air cooling

Connectivity
To the PC by Ethernet or USB

Signals PLC digital I/O
Diagnostics output and check input

External Power Supply
100/250 V 50/60 Hz
**NANOVIS™**

**Revolutionary aWave™ technology**

**The smallest laser in the world**
Compact laser unit with auto-regulation of the frequency, it can mark with results comparable to larger laser units. A very cost-effective laser solution for a wide range of applications.

**Materials**
- Metals • Alloys • Anodized • Black paper •
- Burnished • Ceramics • Ebony • Painted Skin •
- Plastic • Polycarbonate • Silicon • Wood
**aWave**
Revolutionary Automator technology for auto-setting of frequency

**Softwares Nano**
Page 30 for details

**Connectivity**
To the PC by USB

**Red pointer**
Marking preview

**External Power Supply**
100/250 V 50/60 Hz

**Lenses**

<table>
<thead>
<tr>
<th></th>
<th>F100</th>
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<td>300x300 mm</td>
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</tbody>
</table>

**Optional FocusFinder**
Focus height automatic detection device

**Optional axis**
Z and rotating Theta

**Readers**
Fixed or portable reader for QR codes, barcodes and datamatrix

**Source**
Air cooling

**Signals**
PLC digital I/O
Diagnostics output and check input

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---
ALL IN ONE
YVO₄ @1064nm

**YVO4 source, all in one**

Class 4 Yag laser system, extremely light and solid unit “all-in-one”, which perfectly adapts to integrations in lines.

Materials

- Anodized Metal
- Alloys
- Burnished
- Ceramics
- Ebony
- Painted
- Plastic
- Polycarbonate
- Silicon
**Softwares Genius**
Page 32 for details

**Connectivity**
Ethernet or Serial

**Red pointer**
Marking preview

**External Power Supply**
24VDC 100/240 V 50/60 Hz

**Optional FocusFinder**
Focus height automatic detection device

**Readers**
Fixed or portable reader for QR codes, barcodes and datamatrix

**Optional axis**
X/Y, Z and rotating Theta

**Optional MOTF**
Marking on-the-fly

**Stand alone board**
Marking without PC

**Source**
Air cooling

**Signals PLC digital I/O**
Diagnostics output and check input

**Lenses**

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<td>180x180 mm</td>
<td>220x220 mm</td>
<td>320x320 mm</td>
</tr>
</tbody>
</table>
Class 4 Yag laser system, extremely light and solid unit "all-in-one", which perfectly adapts to integrations in lines. Perfect for plastics.

Materials:
- Plastics
- Anodized Metal
- Alloys
- Burnished Ceramics
- Ebony
- Painted
- Plastic
- Polycarbonate
- Silicon
**Softwares Genius**  
Page 32 for details

**Connectivity**  
Ethernet or Serial

**Red pointer**  
Marking preview

**External Power Supply**  
24VDC 100/240 V 50/60 Hz

**Stand alone board**  
Marking without PC

**Optional FocusFinder**  
Focus height automatic detection device

**Readers**  
Fixed or portable reader for QR codes, barcodes and datamatrix

**Optional axis**  
X/Y, Z and rotating Theta

**Optional MOTF**  
Marking on-the-fly

**Signals**  
PLC digital I/O  
Diagnostics output and check input

**Source**  
Air cooling

**Lenses**

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**Marking preview**

**Diagnostics output and check input**

**X/Y, Z and rotating Theta**

**Air cooling**

**Optional MOTF**

**Marking on-the-fly**

**PLC digital I/O**

**Diagnostics output and check input**

**X/Y, Z and rotating Theta**

**Air cooling**
V15-P™

**PORTABLE LASER**

YVO4 @1064nm  
YVO4 @532nm green  

*The smallest portable laser in the world*

Class 1 Yag laser system, extremely lightweight and compact unit "all-in-one", which perfectly adapts to portable applications.

**Materials**

- Anodized Metal  
- Alloys  
- Burnished Ceramics  
- Painted  
- Plastic  
- Polycarbonate  
- Silicon
### Softwares Genius
Page 32 for details

### Connectivity
Ethernet or Serial

### Red pointer
Marking preview

### External Power Supply
24VDC 100/240 V 50/60 Hz

### Signals PLC digital I/O
Diagnostics output and check input

### Lenses
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### Readers
Fixed or portable reader for QR codes, barcodes and datamatrix

### Stand alone board
Marking without PC

### Optional FocusFinder
Focus height automatic detection device

### Portable kit
Handheld structure with adjustable telescopic security system and three supports

### Source
Air cooling

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**Focal lengths**

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</tr>
</tbody>
</table>
Potenze 10-25-50-100 W

ALPHA™

LASER CO2

CO2@10640nm

Powerful and efficient

Class 4 CO2 laser system, extremely light and solid in two units: laser source and galvanometric head with optical path, and 4-unit cabinet with electric circuit and electronics. Perfect to mark on wood and glass.

Materials

- Burnished Anodised
- Ceramics
- Ebony
- Glass
- Painted
- Paper
- Plastic
- Polycarbonate
- Precious Stones
- Rubber
- Silicon
- Wood
**Lenses**

<table>
<thead>
<tr>
<th>Lens</th>
<th>F160</th>
<th>F100</th>
<th>F254</th>
<th>F420</th>
</tr>
</thead>
<tbody>
<tr>
<td>Focal lengths</td>
<td>177 mm</td>
<td>107 mm</td>
<td>281 mm</td>
<td>454 mm</td>
</tr>
<tr>
<td>Marking Areas</td>
<td>110x110 mm</td>
<td>60x60 mm</td>
<td>180x180 mm</td>
<td>320x320 mm</td>
</tr>
</tbody>
</table>

**Softwares Genius**
Page 32 for details

**Connectivity**
To the PC by Ethernet or USB

**Red pointer**
Marking preview

**Optional FocusFinder**
Focus height automatic detection device

**Stand alone board**
Marking without PC

**Optional axis**
X/Y, Z and rotating Theta

**Optional MOTF**
Marking on-the-fly

**Readers**
Fixed or portable reader for QR codes, barcodes and datamatrix

**Source**
Air cooling

**Signals**
PLC digital I/O
Diagnostics output and check input
ARENA™

Loading Area 21.6x17.3"

For FYBRA, NanoVIS, VIS and GreenVIS

COMPACT, ROBUST AND AUTOMATIC

Benchtop laser marking in Safety class 1
Laser enclosure with Electro-pneumatic automatic opening door and software-driven Z axis

ARENA Workstation
for FYBRA 22-33-54 W

Materials
- Anodized Metal
- Alloys
- Burnished Ceramics
- Ebony
- Painted
- Plastic
- Polycarbonate
- Silicon
Red pointer
Marking preview

Stand alone board
Marking without PC

Readers
Fixed or portable reader for QR codes, barcodes and datamatrix

Optional FocusFinder
Focus height automatic detection device

Optional axis
Electric Z and rotating Theta

Theta Axis
Electric, software driven rotary axis
Weight: 11 kg

Console
On the front, with system drive commands and safety buttons

Inspection window
15.7x10"
REGINA™

Loading Area 15,7x15,7"

For FYBRA, nanoVIS, VIS and greenVIS

STYLISH AND PRACTICAL

Benchtop Laser Marking
Class 1 Safety Enclosure

Class 1 laser enclosure with manual opening door and electric-automatic Z axis
Red pointer
Marking preview

Optional axis
Electric Z and rotating Theta

Stand alone board
Marking without PC

Readers
Fixed or portable reader for QR codes, barcodes and datamatrix

Optional FocusFinder
Focus height automatic detection device

Z axis
Electric, maximum height 7.9 mm

Theta Axis
Electric, software driven rotary axis
Weight: 11 kg

Opening door
Sliding manual opening

Loading Area
15.7x15.7"

Inspection window
15.7x10"

Source
Air cooling

Lenses

<table>
<thead>
<tr>
<th>Source</th>
<th>F100</th>
<th>F160</th>
<th>F254</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item maximum height with FYBRA, nanoVIS, VIS and greenVis (mm)</td>
<td>300</td>
<td>216</td>
<td>100</td>
</tr>
<tr>
<td>REGINA with ALPHA CO2 (mm)</td>
<td>300</td>
<td>190</td>
<td>-</td>
</tr>
<tr>
<td>Marking Area (mm)</td>
<td>60x60</td>
<td>110x110</td>
<td>180x180</td>
</tr>
</tbody>
</table>
OMEGA™

Loading Area 13,5x13,4"

For FYBRA, nanoVIS, VIS and greenVIS

COMFORTABLE AND RELIABLE

Benchtop laser marking in Safety class 1

Class 1 laser enclosure with manual opening door and large protected inspection window. Efficient and cost-effective
Red pointer
Marking preview

Readers
Fixed or portable reader for QR codes, barcodes and datamatrix

Optional FocusFinder
Focus height automatic detection device

Lenses

<table>
<thead>
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<th>Source</th>
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<th>F160</th>
<th>F254</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item maximum height with FYBRA, nanoVIS, VIS and greenVIS (mm)</td>
<td>200</td>
<td>110</td>
<td>10</td>
</tr>
<tr>
<td>Marking Area (mm)</td>
<td>60x60</td>
<td>110x110</td>
<td>180x180</td>
</tr>
</tbody>
</table>

Panels can be easily removed to mark larger items
Hinged door, large inspection window, manual adjustment of the Z axis, available customizations

Software
Depending by the laser source

Source
Air cooling
Loading Area 31,5"x31,5"

SUPERIOR™

For FYBRA, nanoVIS, VIS and greenVIS

FOR BIG PRODUCTIONS

Class 1 laser enclosure for big productions with manual opening door and large protected inspection window.

Loading area: 31,5"x31,5", with frontal opening door and protected inspection window

X/Y optional axis

Optional Theta rotary axis
Red pointer
Marking preview

Optional axis
X/Y, Z and rotating Theta

Stand alone board
Marking without PC

Readers
Fixed or portable reader for QR codes, barcodes and datamatrix

Optional FocusFinder
Focus height automatic detection device

Z axis
Electric, maximum height 7,9 mm

Theta Axis
Electric, software driven rotary axis
Weight: 11 kg

Lenses

<table>
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<tr>
<th>Source</th>
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<th>F254</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item maximum height with FYBRA, nanoVIS, VIS and greenVis (mm)</td>
<td>630</td>
<td>546</td>
<td>430</td>
</tr>
<tr>
<td>SUPERIOR with ALPHA CO2 (mm)</td>
<td>730</td>
<td>520</td>
<td>-</td>
</tr>
<tr>
<td>Marking Area (mm)</td>
<td>60x60</td>
<td>110x110</td>
<td>180x180</td>
</tr>
<tr>
<td>with rotary table (mm)</td>
<td>450</td>
<td>370</td>
<td>250</td>
</tr>
</tbody>
</table>

Loading Area
31,5x31,5"

Lights
System status signals

Source
Air cooling

(*) Optional Rotary table
SOFTWARE GENIUS

Software versatile in the applications and easy to use, even by operators without CAD knowledge. Three different configurations: BASIC version, STANDARD version and ADVANCED version.

Complete management of the texts and arc texts with TrueType Font full compatibility
Direct management of the basic drawing elements (rectangles, circles, polygons, arcs, etc), management of barcodes (Code 39, codebar, code 93, code 12 EAN / UCC128, interleaved 2 or 5 ITF, postnet, tuple, tuples, EAN 8, EAN 13, booklan), DATAMATRIX (ECC 200) and QR codes, UID / UDI 2D Matrix.

Graphics and photos importable in Raster format (JPG, BMP, PCX, GIF).

Drawings and logos importable in vector format (DXF, DWG, AI, CDR, WMF, PLT, EMF). View and order management for marking objects, as well as ability to control external automations such as X and Y axes, Z axis Theta axis (rotary), delays and signal exchanges with the external environment.
SOFTWARE STANDARD

Software versatile in the applications and easy to use, even by operators without CAD knowledge.

- Multi-language menu
- Management barcode “Datamatrix”, 2D code, QR code, PDF Queues, UID / UDI 2D Matrix
- Easy import of vector drawings
- Easy import of raster graphics
- Complete set of laser parameters such as speed or power laser
- Texts, Text arcs, text on curved lines, rectangles, polygons, circles and arcs
- File DXF, WMF, AI, SVG, MF, PLT, EMF, BMP, JPG, EPX, PCX, GIF, PNG, TIFF
- TTF Font® (windows property)
- Graphical preview
- Texts with date, serial numbers, shift codes and year/month/day
- Markings filled or only profile
- Templates (object to be marked as background)
- Proportion scale, move, rotate, group creation of each object on the screen
No Communication protocols needed
## MARKING LASERS COMPARISON

<table>
<thead>
<tr>
<th>Laser sources</th>
<th>nanoVIS</th>
<th>VIS</th>
<th>ALPHA</th>
<th>VIS-P</th>
<th>FYBRA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>1</td>
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<tr>
<td>Integration</td>
<td>x</td>
<td>x</td>
<td></td>
<td>x</td>
<td></td>
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<tr>
<td>Benchtop</td>
<td></td>
<td></td>
<td>x</td>
<td></td>
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<td>Large scale productions</td>
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<td>Portable</td>
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<td>x</td>
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<td>Variable</td>
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<td></td>
<td></td>
<td>Variable</td>
<td></td>
</tr>
<tr>
<td>YVO4</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>CO2</td>
<td>x</td>
<td></td>
<td></td>
<td>x</td>
<td>x</td>
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<tr>
<td>Green</td>
<td>x</td>
<td>x</td>
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<td>x</td>
<td>x</td>
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<td>Ytterbium</td>
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<tr>
<td>Intra</td>
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### Enclosures

<table>
<thead>
<tr>
<th>ARENA</th>
<th>REGINA</th>
<th>OMEGA</th>
<th>SUPERIOR</th>
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### Software

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