all-in-one | **laser marking** | systems

ACI
Laser-Components

2202.21.1300.100 27022003 Fbo

Mark
your territory...

Company
profile

Innovation from Germany

ACI Laser GmbH is an innovative company in the field of laser technology.

Our long-term experience and permanent focus on market demands has helped us to become a leading manufacturer of laser marking systems worldwide.

From product development through to sales, the employees at the company location in Nohra, Thuringia ensure the best possible quality. Additionally, our trading partners assure sales and provide services for all of our products.

The foundation of ACI Laser's success is our educated and motivated team of employees. They are the most important factor in guaranteeing our customers satisfaction for the future.
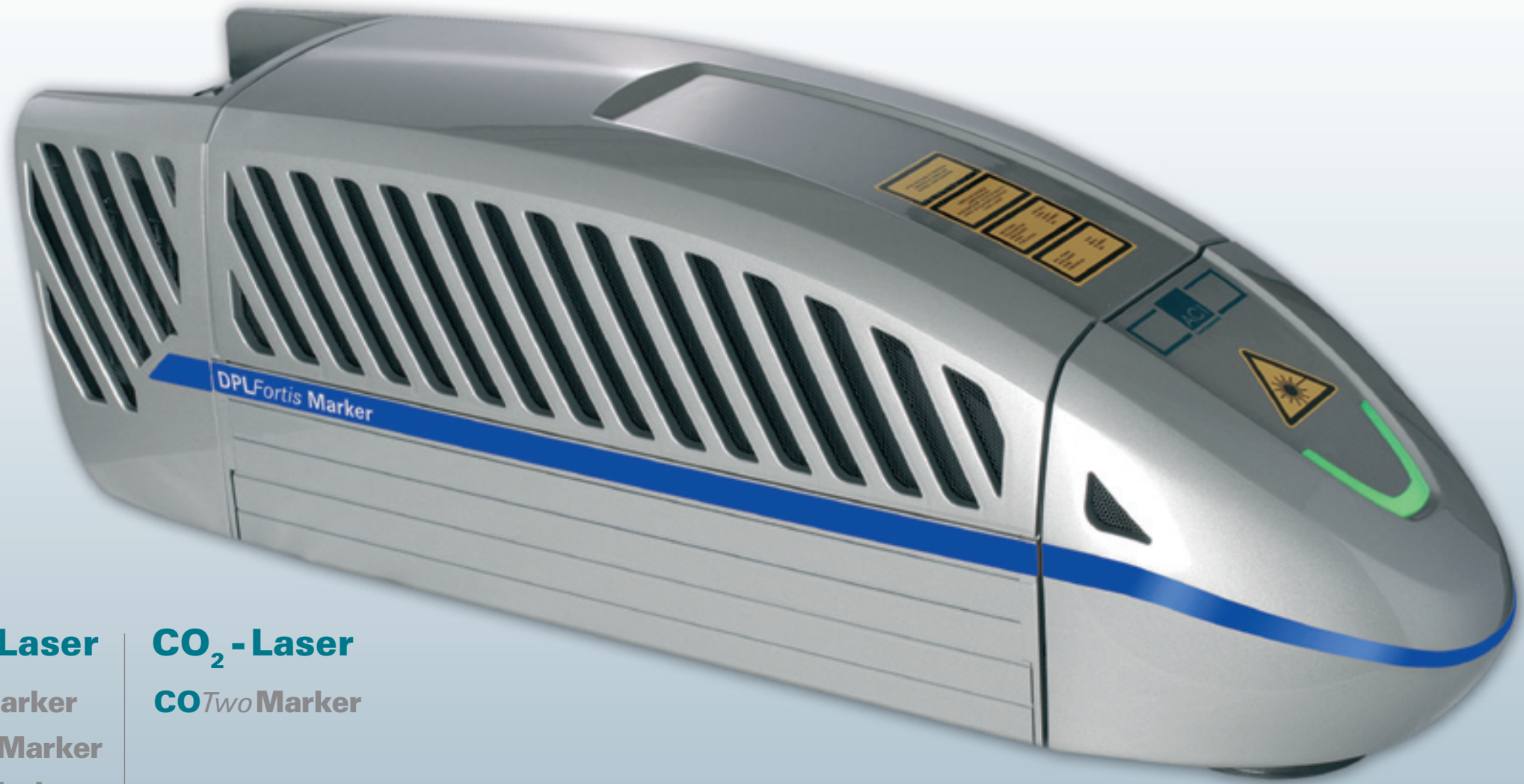
Laser
marking

Mark your territory…

In previous years, laser marking was introduced to all industry segments. Since that time, technicians from the automotive and electronics industries, to those involved in machine and tool construction are increasingly putting their confidence in the advantages of laser marking.

ACI lasers are suitable for marking nearly all types of organic and inorganic materials and shapes including metals, ceramics, plastics, wood and glass. A high contrast mark can be achieved with all of these materials using the YAG or CO_2 wavelength. Laser marking provides a permanent identification of products for traceability, anti-counterfeiting and liability issues. Graphic elements, plain text, numbers, barcodes or data matrix codes are among the many images suitable for laser marking.

DPL*Fortis* Marker

Nd:YAG Laser | **CO$_2$ - Laser**

DPL*Magic* **Marker** | **CO***Two* **Marker**

DPL*Genesis* **Marker**

DPL*Nexus* **Marker**

DPL*Fortis* **Marker**

Tools
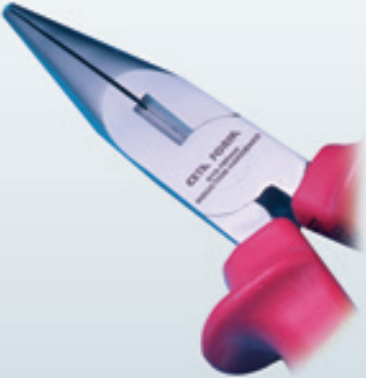
Medical

Aviation
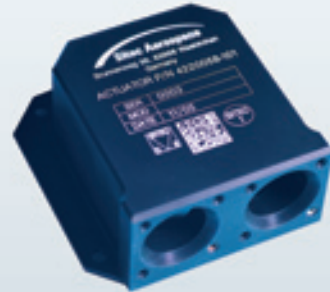
Applications

Decoration

Electronics

Automotive

Individual Markings

With the Nd:YAG Laser series different substrates can be marked by an annealed or engraved process, a color change, or a carbonized marking – depending on their material and according to a client's requirements. Metals are often marked by engraving or annealing, while plastic is usually marked by generating a color change with the laser beam.

The CO *Two* Marker is further on able to mark paper, wood as well as other organic materials.

Apart from marking for industrial or technical reasons such as dates or serial numbers, products can also be refined by high-resolution laser identification, such as in the cases of cosmetics or jewelry.
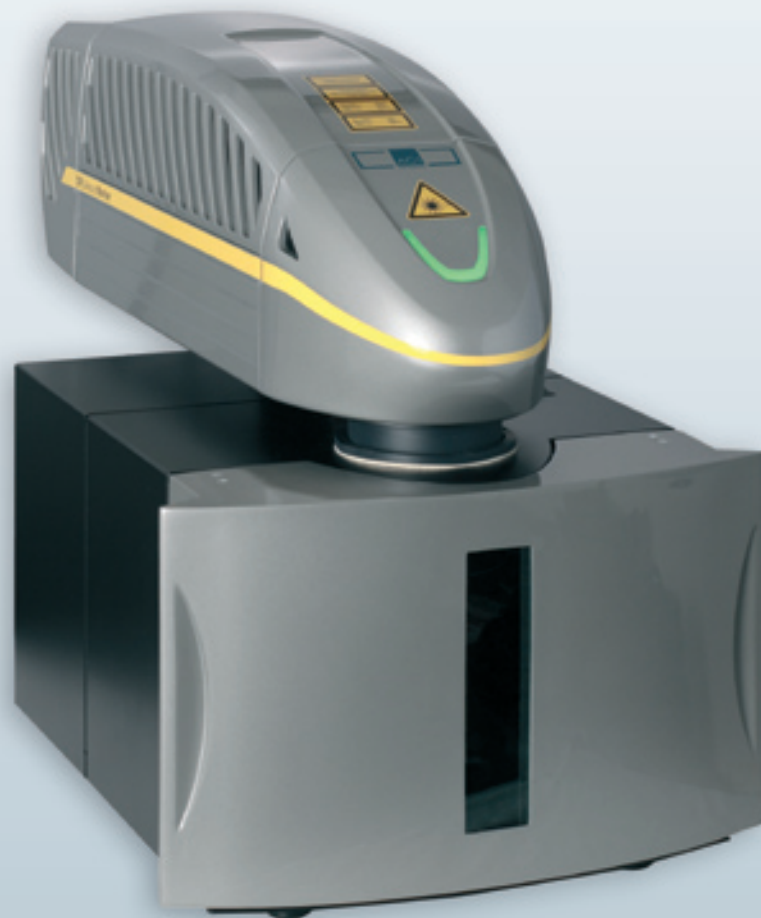
Product
options

The suitable solution for each demand

All lasers are offered in Laser Protective Class 4 for integration into existing equipment or production lines.

For the OEM-laser device, ACI has developed several options that further simplify the use of the lasers depending on their applications. Several of these options include Laser Protective Housing, x - y - z and rotation axes, a rotary indexing table as well as foil marking capabilities. These are available user-ready and according to Laser Protective Class 1.

Workstation_BASIC_

Laser Functions
- · Parameter control
- · Shutter operation
- · Laser Start / Stop – function
- · Monitoring of functions

Control Functions
- · Support of motor driven axes (x, y, z, ROT)
- · Support of industrial control systems (digital I/O)

Scanner Functions
- · Integration of graphic files (HPGL, DWG, DXF, AVX, BMP, JPG, GIF)
- · Extensive barcode library
- · Data Matrix-Code
- · True-Type-Fonts
- · Single-Line-Fonts
- · Extensive help-menus for supporting of BASIC-programming
- · Complete text-/data input (access to Access data bases or Excel-sheets)

Scanner Functions
- · Text and graphic rotation
- · Stretching / compressing of text and graphic elements
- · Marking in circles
- · Aligning of the marking elements
- · Programmable type size
- · Serial numbers
- · Processing of variables and subroutines
- · Object oriented programming
- · Stacking of complete processes and parameters in special menus or data bases
- · Extensive help functions

Marking
Software

Software Magic*Mark* **V3**

The factors to consider when deciding on a laser marking investment are how user-friendly the marking software is, what is included in the scope of delivery and how innovative the laser system is. In the area of laser marking software, Magic*Mark* V3 sets new standards. Simple operation of the software's graphical interface allows fast creation of complex marking. In addition to its extensive graphic functionality, the software offers a Visual Basic programming module, which facilitates integration into production lines. Even the most complicated data communication can be easily achieved by using this method.

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