

Abmark[®]

INDUSTRIAL LASER SOLUTIONS

EXPERTISE & INNOVATION



ABMARK IS A COMPREHENSIVE RANGE OF LASERS, SOFTWARE, WORKSTATIONS AND ACCESSORIES DEVELOPED FOR INDUSTRIAL LASER MARKING SOLUTIONS, BASED ON 25 YEARS OF EXPERIENCE, KNOW-HOW AND INNOVATION.



LASERS

Extensive family of industrial lasers including Fibre, DPSS and CO2 technology designed to address a wide range of material processing applications.



WORKSTATIONS

All Abstations are class I laser safe enclosures that have been ergonomically designed to be compact, affordable and easy to use.



SOFTWARE

Our powerful proprietary marking software makes it simple to code and mark precisely and consistently.



ACCESSORIES

Abmark includes a wide range of accessories to enable solutions to be configured quickly and easily



LASER TECHNOLOGY



HIGH VERSATILITY

Can be used on many different materials



NON CONTACT

No tooling required, little risk of damage due to clamping



NO CONSUMABLES

The latest fibre, DPSS and CO₂ lasers have no consumable parts and extremely long life-times



PERMANENT MARKING

Can be used on many different materials



HIGH PRECISION MARKING

No tooling required, little risk of damage due to clamping



HIGH FLEXIBILITY

The latest fibre, DPSS and CO₂ lasers have no consumable parts and extremely long life-times

PRODUCT RANGE

One of the largest product ranges on the market

Proprietary software with powerful integration capability

High speed “on the fly” marking

Highly competent and experienced technical support

Competitive prices thanks to relatively large production volumes

Range of “add-on” technologies such as Integra

Powerful TCP/IP communication protocols

Global coverage

LASERS

Includes a large number of fibre and DPSS lasers to suit most budgets and performance requirements.

Extensive family of industrial lasers including Fibre, DPSS and CO₂ technology designed to address a wide range of material processing applications.

Green and UV wavelengths to meet the need for high resolution marking of plastics and ablation without any thermal impact.

All Abmark lasers are fully network enabled and equipped with an on-board computer making an external PC unnecessary.

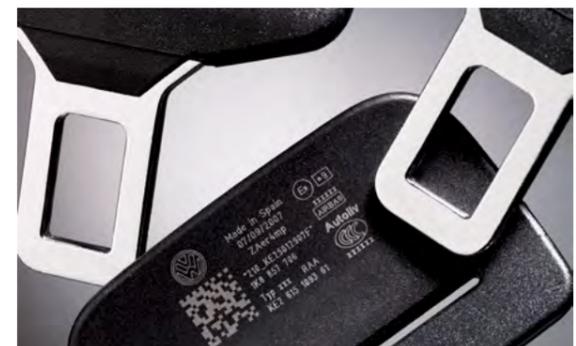
Our advanced control electronics are also capable of driving motorised axes and include options for both stepper and servo control.

AB-N SERIES

AB-N series is a family of cost-effective, **all-in-one lasers** based on DPSS and fibre technology.

AB-N lasers are easy to install and integrate. They are compact and designed to be used where space is limited.

AB-N lasers are available in both DPSS and fibre versions to address a wide range of marking applications including metal, plastic and composite materials.



AB-F SERIES

AB-F series is a family of powerful and reliable industrial fibre lasers.

AB-F lasers are designed for high-speed on-line integration and for use in standalone workstations.

AB-F lasers are ideal for demanding **metal marking applications** in addition to other materials such as plastics and composite materials.

AB-F lasers are long life; low maintenance lasers with very low cost of ownership.



AB-D SERIES

AB-D series is a family of industrial DPSS lasers.

AB-D lasers are available in 1064nm, 532nm (Green) and 355nm (UV) wavelengths.

AB-D lasers are short pulse, high peak power lasers that are ideal **for marking delicate substrates such as plastics and for coating ablation.**



AB-C SERIES

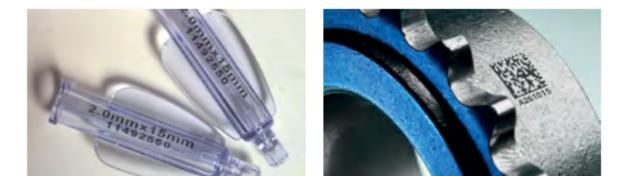
AB-C series is a range of industrial CO₂ lasers.

AB-C lasers are ideal for marking materials such as glass, wood, textile and composite materials.

AB-C lasers are available in various optical configurations and power levels to address a **wide range of applications including marking, cutting, scoring and perforating.**

AB-C lasers are compact, cost-effective and designed for on-line integration.

AB-C lasers are also available in a special split head configuration, AB-CS, for integration in to applications where space is limited.



ABSTATIONS

Abmark includes a range of laser workstations from a small, benchtop model to a large floor standing unit that features X&Y axes for semi-automatic operation.

All Abstations are class I laser safe enclosures that have been ergonomically designed to be compact, affordable and easy to use.



ABSTATION-MINI

Is a compact benchtop laser marking workstation that has been designed to be compatible with the full range of Abmark lasers. The workstation features a motorised Z-axis as standard with a 'T' slot base plate for attaching custom tooling.



ABSTATION-MIDI

is a fully featured benchtop laser marking workstation designed for operation with the AB-F and AB-D range of Abmark lasers. The workstation is supplied as standard with a programmable Z-axis and motorised door. The wraparound door provides unencumbered access for part loading and unloading. The workstation includes an option for the installation of a programmable rotary axis for marking cylindrical components.



ABSTATION-MAXI

is a floor standing workstation that has been designed for both seated and standing operation. The workstation is fully compatible with the AB-F and AB-D range of Abmark lasers. The workstation features a programmable Z-axis and motorised door as standard. Options are included for X, Y and rotary axes. An ergonomic computer arm is provided for mounting a laptop or the display and keyboard from a desktop computer.

ACCESSORIES

Abmark includes a wide range of accessories to enable solutions to be configured quickly and easily. The following accessories are offered:

EXTRACTION EQUIPMENT

A range of fume extractors is offered and can be selected on the basis of extraction volume required and material being marked.

ROTARY AXIS

A rotary axis is needed to allow the full circumference of a cylindrical object to be marked. The rotary axis includes a tilt plate to allow the inside of rings and cylinders to be marked. As standard the rotary axis is controlled by a stepper driver but there is also an option for servo control for time critical applications.

TOUCH SCREEN

For on-line applications a touch screen is offered as an option. The touch screen with embedded CPU is able to run a reduced set of the Abmarca software.



FOCUS FINDER

is a simple visual aid to facilitate setting the focus of the laser.

SAFETY GLASSES

for those customers choosing to operate the laser in a Class IV configuration.

HAND-HELD PENDANT

this device provides a basic but simple interface to the laser where customers choose to limit the amount of access provided to operators for on-line applications.

KEY INDUSTRIES FOR INDUSTRIAL LASER MARKING

Designed to address a wide range of laser marking applications across multiple industrial sectors

AUTOMOTIVE



JEWELLERY



DEFENCE AND AEROSPACE



MEDICAL DEVICES



CONSUMER GOODS



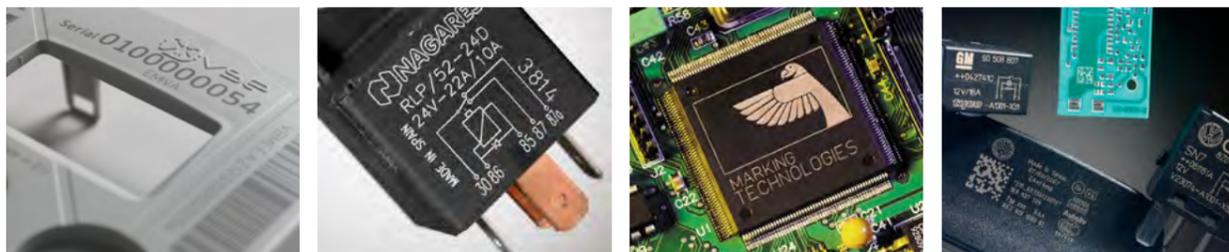
GENERAL ENGINEERING



SECURITY



ELECTRONICS

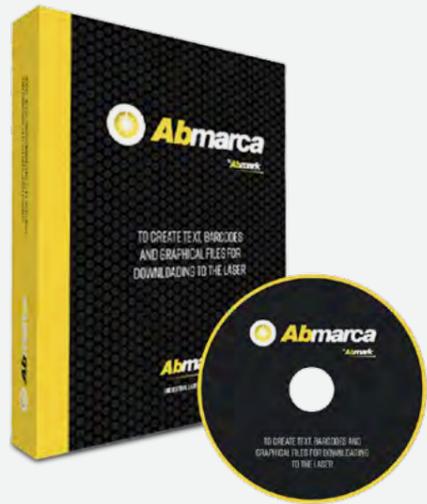
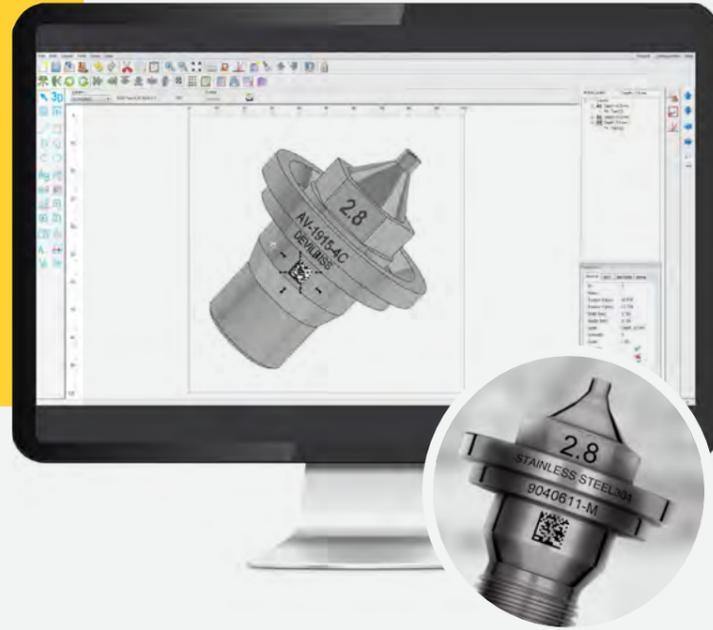


PROMOTION AND GIFTWARE



SOFTWARE

Abmark lasers are easy to use. Our powerful proprietary marking software makes it simple to code and mark precisely and consistently. Our advanced line control software makes it easy to control, manage and optimize the production line.



to create text, barcodes and graphical files for downloadin to the laser



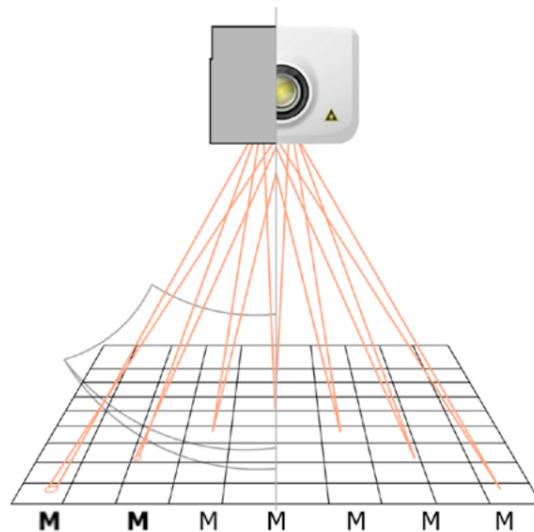
to control, manage and optimize the production line



to simplify the process of connecting vision systems to an Abmark laser.



to transform the laser from 2D to 3d marker



ABMARK SUPPORT



CONSULTING

Multidisciplinary team of engineering consultants providing single point responsibility from initial specification through to turn-key delivery.



INSTALLATION

Commissioning, start-up and acceptance testing including full operator and maintenance training.



TECHNICAL SERVICES

On-going technical support is available either on an ad-hoc basis or through one of our *tailored customer support packages.

SUSTAINABILITY

Comparison of laser marking vs other technologies.

Laser marking often has lowest cost of ownership and is the most environmentally friendly marking technology.

Marking Process	Speed	Permanence	Flexibility	Cost of ownership	Operating cost	Mark Quality	Ease of Use
Laser	Excellent	Excellent	Good	Low	Very low	Excellent	Simple
Chemical Etch	Good	Good	Poor	Low	Medium	Excellent	Difficult
Ink-jet	Excellent	Poor	Good	Medium	Medium	Poor	Average
Mechanical Stamp	Good	Excellent	Poor	Low	Medium	Poor	Average
Pin marking	Slow	Excellent	Medium	Medium	High	Poor	Simple
Pad Printing	Slow	Poor	Poor	Low	High	Excellent	Average
Screen Printing	Good	Poor	Poor	Medium	High	Excellent	Difficult



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