

# Choose your MACSA in simple steps

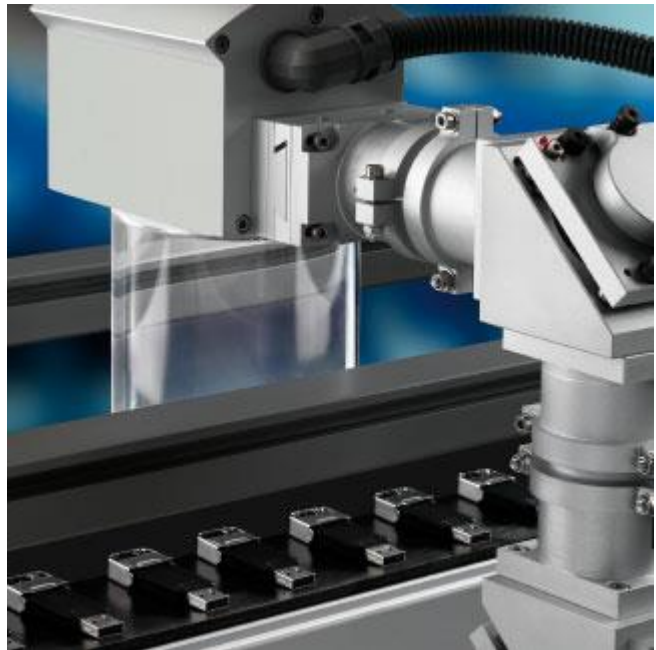
## CHOOSE THE TECHNOLOGY

The substrate you need to code, mark or score determines whether you need a CO<sub>2</sub>, a YAG or a fiber laser.

If it's a CO<sub>2</sub> laser you can also choose the wavelength to better mark PET and PVC.

**CO<sub>2</sub>:** Paper and board, glass, wood, PVC (10,2 micron), PET (9,3 micron).

**YAG and fiber:** Metals, engineering thermoplastics, styrenics olefinics, epoxy resins plastic films (continuous fiber).





# CHOOSE THE POWER

A range of laser powers is available for all SPA families.

Typically a higher speed application will need a higher power laser.

Some more difficult to mark substrates will also need a higher power laser.

# CHOOSE THE PRINTHEAD

If it's a high speed and/or multi line and/ or complex graphic application you need an SPA UHS laser.

If it's a difficult to mark substrate or a scoring application you need an SPA HPD laser.

For most other applications an SPA NXT laser is sufficient.

**UHS:** High speed production lines; large, more complex graphics.

**HPD:** Scoring applications; difficult to mark substrates.

**NXT:** Moderate speed production lines; typical coding messages.



# CHOOSE THE OPTICS

The size of the message or graphic determines the focal length of the lens to be used.

A beam expander may also be chosen to improve print quality.

Beam expanders are standard for UHS and HPD lasers.

A focussing pointer is also available.

3D printing options are available as extras.



# CHOOSE THE ENCLOSURE

All SPA lasers are designed, built and tested to IP54.

An IP65 option is available for users with damp and/or wash down environments.

High and low temperature kits are available to ensure reliable operations at extreme temperatures.

An optical head split kit aids installation in difficult environments.





# CHOOSE THE CONTROLLER

The easiest way to program and control an SPA laser is to use its handheld touchscreen controller.

Alternatively you can use Marca software and drive it from a PC via an ethernet link.



# CHOOSE THE ELECTRONICS

The electronics module is standard for all SPA lasers.

The power supply is modular but its size is determined by the choices of laser (technology, family and power) and optics.

# CHOOSE THE ESSENTIALS

Several essential accessories are needed to complete most laser solutions:

- Photocell
- Shaft encoder
- Support stand
- Fume extractor
- Laser beam protector



# CHOOSE THE EXTRAS

All installations are different and it is generally necessary to add other equipment to complete a safe and robust installation:

- 3D printing
- Enhanced safety
- Chiller
- Connector box
- Workstation

# CHOOSE THE EXPERIENCE

A laser is just hardware until it's installed and operational. Macsa provides a range of services to ensure that users are fully satisfied:

- Advise and Consulting
- Installation
- Training
- Technical support
- Extended warranty



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