HPD Series Laser
For Marking, Scoring, Slitting & Cutting Flexible Plastics, Films and Foils

The HPD Series is part of our line-up of laser systems from Macsa.

Macsa lasers are available exclusively from ID Technology in USA and Canada

ID TECHNOLOGY®
Labeling Coding and Marking Specialists

Marking, Scoring, Slitting & Cutting Flexible Plastics, Films and Foils

HPD Series are powerful, high performance CO2 lasers.

They deliver exceptionally high power density which enables them to be effective in cutting and perforating flexible plastic films and foils and other materials, marking high resolution images onto several non-metallic substrates and coding difficult substrates.

The HPD Series is the ultimate CO2 laser for use on many Form, Fill, Seal (FFS) packaging machines.

The HPD Series comes with all the features you'd expect from a Macsa laser:

» Network capability
» Multiple user interface (touchscreen, handheld, PC)
» Able to print high quality text, graphics and barcodes
» ID Technology nationwide support

Coding - large print area

The HPD laser is designed
to produce a small, perfectly round spot- even when printing over a large print area.

Combined with the high power and high speed of the HPD laser, enables exceptional print quality even over a large area.

Standard CO2 Laser

HPD Series CO2 Laser

High Quality Coding

The small spot size of the HPD laser enables small characters and logos to be marked with enhanced quality.

On this example, conventional CO2 laser is on the top, HPD laser below. The HPD laser prints with a narrower stroke, giving improved clarity, especially when printing small character sizes.

Laser Scoring

The HPD Series brings precise control of the properties of the laser beam to allow selective cutting of layers in the most complex plastic films.

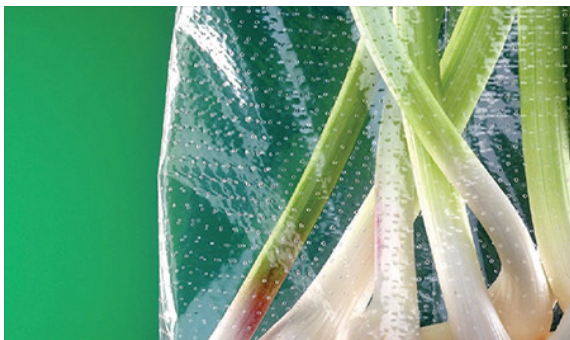This allows easy opening while leaving other layers intact to protect the product from light and humidity.

Unlike mechanical scoring tools (dies, blades, punches, etc.) that come into physical contact with the packaging, the laser suffers minimal wear and does not put the integrity of the product at risk.
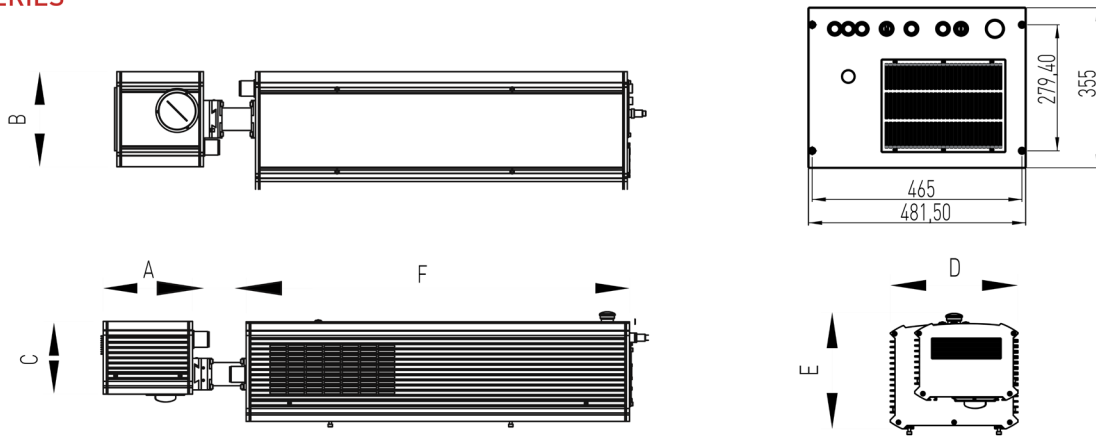

μ-Perforation

Does your perishable product need to have a controlled flow between the package and the outside air?

Our HPD laser is able to perforate the packaging in a very controlled manner to provide just the right migration between your product and the surrounding atmosphere.

SYSTEM TYPE				K-1030 HPD UHS PLUS	S-3100 HPD UHS PLUS	S-3200 HPD UHS PLUS
POWER				30W	100W	200W
WAVELENGTH				9.3µm /10.2µm / 10.6µm		10.6µm
DIMENSIONS	Head (A x B x C)			173x190x141mm		190x168x140mm
	Tube (D x E x F)			235x193x743mm	235x193x868mm	250x336,5x2180mm
	Rack			-	481,5mmx355mmx800mm	
WEIGHT				Net: 32kg Gross: 35kg	Net: 76kg Gross: 91kg	Net: 96kg Gross: 100kg
SYSTEM				Laser built into the laser tube. Scanners built into the scanning head. Power, control electronics and computer built into the laser tube.	Laser built into the laser tube. Scanners built into the scanning head. Power, control electronics and computer built into the cabinet.	Laser built into the laser tube. Scanners built into the scanning head. Power, control electronics and computer built into the cabinet.

	Working distance (mm)	Focal length (mm)	Marking area (mm x mm)	Beam diameter (µm)	Power density (kW/cm^2)	Power density (kW/cm^2)	Power density (kW/cm^2)
OPTICS	115	125	75x75	<128-O	464-O	1548-O	3096-O
	150	160	100x100	<203-S	186-S	620-S	1240-S
	310	320	209x209	<405-O	47-O	157-O	313-O
	400	410	250x250	<540-O	26-O	87-O	173-O

µm: microns   S: Standard   O: Optional   Built in marking 90º

SOFTWARE	▪ ScanLinux V5.2.7 and later ▪ Marca Software V5.6.9.a and later ▪ Internal bar code
USER INTERFACE	▪ Hand held terminal ▪ Touch screen ▪ PC
CONTROL	▪ Touch screen with ScanLinux software. ▪ MarcaLite® software, with security key and Ethernet (TCP/IP) cable connection ▪ Hand held terminal ▪ Full graphics interface, key protected software and Ethernet (TCP/IP) cable connection
LASER SOURCE	
ACCESSORIES / OPTIONS	Mounting support – Photocell kit – Encoder kit
ENVIRON. CONDITIONS	▪ +15º C (59º F) to 40º C (104º F) external temperature ▪ Humidity < 95%, without condensation ▪ Vibration free area

Macsa id
a code you can trust

powered by **Pro Mach**