



UMSC30 UMSC60

Permanent, Consumable-Free Laser Coding

30 W

UMSC30 · LASER OUTPUT

60 W

UMSC60 · LASER OUTPUT

A new intelligent vector-control algorithm drives significantly faster marking. The compact all-in-one design integrates with conveyor lines and pouch-packing machinery, and every code is permanent, high-contrast and tamper-evident, built for traceability and anti-counterfeiting.



KEY BENEFITS

HIGH STABILITY

A new intelligent control algorithm produces a clean, high-quality engraved mark every time, while high-performance processors run at a higher marking frequency with lower power consumption.

EASY INTEGRATION

A compact all-in-one body drops into conveyor lines and pouch-packing machinery. The laser can be installed in any direction to suit tight spaces, and the 10-inch touch screen keeps day-to-day operation quick and simple.

HIGH EFFICIENCY

Marks up to 1 000 characters per second, with fonts, logos, graphics, barcodes and 2D codes. Suits film, cardboard, plastic, glass, leather and many other materials, on static or fast-moving lines.

EFFECTIVE COST CONTROL

No inks, solvents or ribbons to buy, so running costs stay low. A 50 000-hour mean time between failures keeps the line running, and permanent codes give a reliable anti-counterfeiting option.

1 000 CPS

CHARACTERS PER SECOND

50 000 h

MEAN TIME BETWEEN FAILURES

ZERO

INKS, SOLVENTS OR RIBBONS

CONFIGURATION & HANDLING

- ◆ Compact all-in-one laser body for conveyors and pouch packers
- ◆ Laser head can be installed in any direction
- ◆ 10-inch touch screen running a Linux control system
- ◆ Flying (on-the-move) and static marking modes
- ◆ Air-cooled — no water chiller to maintain
- ◆ IP54 protection as standard · IP65 optional



TECHNICAL PARAMETERS

LASER & MARKING	
Laser Source	CO2 laser generator · high-end generator optional
Output Power	UMSC30: 30 W · UMSC60: 60 W
Wavelength	10.6 µm standard · 9.3 µm and 10.2 µm optional
Scanning Method	X and Y axis simultaneous scanning
Marking Speed	8 000 mm/s standard · 12 000 mm/s optional · up to 1 000 characters per second
Line Speed (Flying)	0–150 m/min standard · 0–200 m/min and 0–300 m/min optional · depends on material and content
Static Marking	Multiple products can be marked at the same time
Marking Area / Focal	Lens options (mm): 70 x 70 / 100 · 110 x 110 / 150 · 140 x 140 / 200 · 175 x 175 / 250
Guide Light	Red guide light for fast set-up and positioning
CONTROL, SOFTWARE & MACHINE	
Controller	Linux system · 10-inch touch screen
Fonts & Character Size	26 built-in fonts, user-defined fonts supported · 0.8 mm up to the full marking area
Codes & Graphics	Code 39, Code 25, EAN-13, Code 128 etc. · PDF417, QR Code, Data Matrix · BMP, DXF, PLT, HPGL, JPEG
Variables	Serial number, text, date, time, counter, shift code
Interfaces & I/O	USB, Ethernet, RS232 · 2 inputs / 3 outputs, customisable · running, ready and fault status
Applicable Materials	Paper boxes, flexible packaging film, plastic bottles, glass bottles, cardboard, leather and more
Power	100–240 V, 50–60 Hz · UMSC30: 500 W · UMSC60: 600 W
Cooling & Protection	Air cooling, at least 10 cm clearance at the air inlet · IP54 standard, IP65 optional
Operating Environment	5 °C to 40 °C · 10 % to 90 % relative humidity, non-condensing
Dimensions	Laser body UMSC30: 708 x 172 x 167 mm · UMSC60: 868 x 172 x 167 mm · touch screen 252 x 168 x 36 mm

APPLICATIONS & PRINT SAMPLES

Specifications are indicative and subject to change without notice.



Glass bottles



PET bottles



Printed labels

SUITABLE SUBSTRATES

Paper boxes & cartons · Flexible packaging film · PET & plastic bottles · Glass bottles · Leather · Labels