

DLFM

Permanent Fibre Laser Coding, No Consumables

30 W

OUTPUT OPTION

60 W

OUTPUT OPTION

100 W

OUTPUT OPTION



An intelligent vector-control algorithm greatly improves marking speed. With low maintenance, no consumables and an optimised marking font library, the DLFM prints permanent, high-contrast marks on flexible packaging, hard plastics (PE/PP) and metals, giving food, cosmetics and other manufacturers reliable product traceability.

KEY BENEFITS

HIGH STABILITY

A brand-new intelligent control algorithm ensures high-quality printing, while an anti-electromagnetic-interference design supports 24-hour continuous operation.

EASY INTEGRATION

A compact laser body integrates easily onto a wide range of packaging lines and suits narrow installation spaces. It installs in any direction, and the friendly user interface keeps operation simple.

HIGH EFFICIENCY

Marks up to 1 000 characters per second, with almost any font, barcode, QR code, image or graphic. Widely used on films, metals and plastic materials.

COST EFFECTIVE

Efficient fan cooling means low maintenance and long life, with an MTBF of up to 100 000 hours. No consumables keeps running costs down, and permanent codes protect your brand and keep products traceable.

1 000 CPS

CHARACTERS PER SECOND

100 000 h

MTBF (UP TO)

500 m/min

MAX FLYING SPEED (OPTIONAL)

CONFIGURATION & HANDLING

- ◆ Compact laser body, only 418 x 93 x 110 mm
- ◆ Laser can be installed in any direction
- ◆ Fan-cooled — no water chiller to maintain
- ◆ Flying and static marking modes
- ◆ 24-hour continuous operation · anti-interference design
- ◆ Fibre or MOPA source, 30 W, 60 W or 100 W



TECHNICAL PARAMETERS

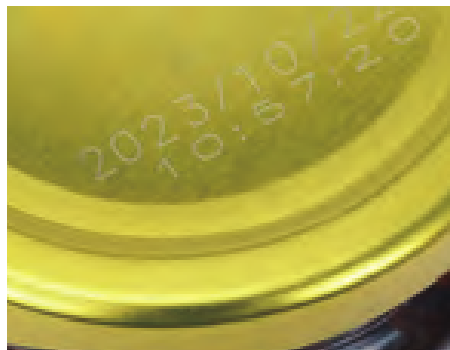
LASER & MARKING	
Laser Source	Fibre laser · MOPA laser option · 1064 nm wavelength
Output Power	30 W · 60 W · 100 W
Marking Speed	Up to 8 000 mm/s · up to 1 000 characters per second
Scanning Method	X and Y axis simultaneous scanning
Flying Marking	0–150 m/min · 0–300 m/min · 0–500 m/min · actual speed depends on configuration, material and content
Static Marking	Multiple products can be marked at the same time
Marking Area / WD	Lens options (mm): 110 x 110 / 198 · 150 x 150 / 271 · 175 x 175 / 295 · 300 x 300 / 473 · 400 x 400 / 587
Guide Light	Red guide light for fast set-up and positioning
Applicable Materials	Flexible packaging film, PE and PP hard plastics, metals and more
CONTROL, POWER & MACHINE	
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
Cooling & Protection	Air (fan) cooling, at least 10 cm clearance at the air inlet · IP54
Power Supply	100–240 V, 10 A, 47–63 Hz
Power Consumption	300 W · 400 W · 500 W, depending on laser output
Operating Environment	–5 °C to 45 °C · 10 % to 95 % relative humidity, non-condensing
Laser Installation	Any direction
Dimensions	Laser body 418 x 93 x 110 mm · touch screen 305 x 207 x 56 mm · fume extractor 440 x 400 x 180 mm

APPLICATIONS & PRINT SAMPLES

Specifications are indicative and subject to change without notice.



Metal tins



Metal lids



Flexible pouches

SUITABLE SUBSTRATES

Flexible packaging film · PE & PP hard plastics · Metals · Tins & lids · Pouches