

ILM-800 Laser Marking



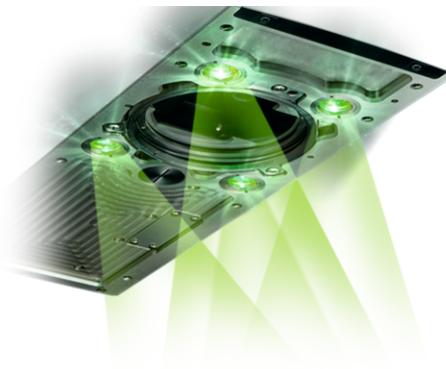
In Line Laser Marking

ILM is a standard high-speed laser marking station designed for PCB marking with high productivity.

The code to be marked on the product is programmable by the user at his own will.

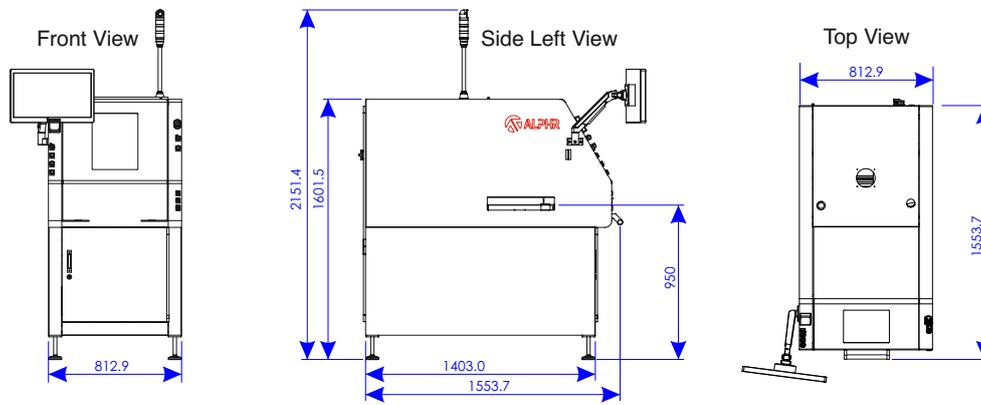
During a single pass, the PCB is clamped and transported on a width adjustable conveyor under a fixed laser unit able to mark an area as large as up to 330 by 330 mm with one stop, or even up to 330 by 450 mm when necessary, using the second stopper, a standard feature on the machine.

After being marked on the product, the code is scanned and the product is moved out the laser area and unclamped off the conveyor.



ILM-800 Laser Marking configured on demand





Technical specification ILM-800 Laser Marking

Laser Head

Laser Head Manufacturer	Keyence	Keyence
Laser Head model	MDX-1020C	MDU-1020C
Laser Warranty period	2 years	2 years
Laser Power (W)	13 W	3 W
Laser Type	Hybrid [Fibre & YV04]	UV
Laser wavelength	1064 nm	355 nm
Guarantee laser head lifetime (Heures)	100,000 hours	100,000 hours

Laser marking capability

Machine Marking Area (Second stopper enlarges the longitudinal marking area of the machine from 330 mm up to 450 mm)	330x450mm	330x450mm
Marking Area (mm&mm)	330x330mm	330x330mm
Marking resolution	0,005 mm	0,005 mm
Standard working distance (\pm variable width)	300mm [\pm -21mm]	300mm [\pm -21mm]
Marking speed (mm/s)	Max 8000 mm / sec	Max 8000 mm / sec
Font	KEYENCE original font (numbers, letters), user font, TrueType font, OpenType font	KEYENCE original font (numbers, letters), user font, TrueType font, OpenType font
Barcode	CODE39, ITF, 2of5, NW7(Codabar), JAN, CODE128, EAN, UPC-A, UPC-E, CODE93	CODE39, ITF, 2of5, NW7(Codabar), JAN, CODE128, EAN, UPC-A, UPC-E, CODE93
2D Code	QR code, micro QR code, DataMatrix (ECC200/ GS1 DataMatrix)	QR code, micro QR code, DataMatrix (ECC200/ GS1 DataMatrix)
Character type	Gs1 DataBar Gs1 DataBar, GS1 DataBar CC-A, GS1 DataBar Stacked, GS1 DataBar Stacked CC-A, GS1 DataBar Limited, GS1 DataBar Limited CC-A, GS1 DataBar Truncated, GS1 DataBar Truncated CC-A	Gs1 DataBar, GS1 DataBar CC-A, GS1 DataBar Stacked, GS1 DataBar Stacked CC-A, GS1 DataBar Limited, GS1 DataBar Limited CC-A, GS1 DataBar Truncated, GS1 DataBar Truncated CC-A
Logo image	Custom character font and logo (CAD) data, BMP/JPEG/PNG/TIFF	Custom character font and logo (DXF) data, BMP/JPEG/PNG/TIFF
Marking conditions	Character size height/width Workpiece style	Character size height/width Workpiece style
	0.1 - 330 mm Stationery marking, Moving marking (constant, encoder)	0.1 - 330 mm Stationery marking, Moving marking (constant, encoder)

Material handling & table

Automatic width adjustment	YES	YES
Inline/Online	Inline	Inline
PCB transport method	13 mm wide belt with 3 mm edge sitting	13 mm wide belt with 3 mm edge sitting
Transport / Conveyor	Stainless steel topguide bar	Stainless steel topguide bar
Working Direction - Dual Direction	L In - L Out / L In - R Out / Pass Through	L In - L Out / L In - R Out / Pass Through
Conveyor Speed - Dual Speed	14 - 1,4 m / min	14 - 1,4 m / min
Two marking positions with dual stopper	YES	YES
PCB Clamping	Side Clamp	Side Clamp
PCB Support	2-off bottom support magnetic cylinders	2-off bottom support magnetic cylinders
Scanning method	Keyence SR2000W	Keyence SR2000W
Product width (PCB width)	100 - 407 mm	100 - 407 mm
Product length (PCB length)	80 - 450mm	80 - 450mm
Product weight (PCB weight)	max 3 kg	max 3 kg

Delivery & Warranty

Machine warranty	2 years	2 years
Local support	Yes - Arad	Yes - Arad
Machine footprint	813x1500x1600mm	813x1500x1600mm

Future verification

User access level and password protected	YES 5 levels	YES 5 levels
Multi- language user interface	YES	YES
Log management	YES local & network	YES local & network
Smema Connection	Extended Good/Bad sorting	Extended Good/Bad sorting
Exhausting system	Bofa Access	Bofa Access
Z axis height auto adjustment	Auto Focus function & 3D function included	Auto Focus function & 3D function included
Remote management	YES	YES
Laser calibration function is integrated	YES programable autocalibration	YES programable autocalibration
Connection to MES (factory traceability)	YES	YES
Short cycle times	YES	YES
Marking of multi-panels	YES	YES
CE certificate	YES	YES

ILM-800 Laser Marking

Key Features

- ESD edgebelt PCBA conveyor
- UV Marking or hybrid (fiber & laser), automatic with adjust conveyor, Smema extended option, automatic scan check
- Full traceability communication



The above configuration can be fully customized according to your specific application needs. If interested, we are fully open to schedule a meeting at your convenience, to discuss the details based on which we shall prepare a quotation.

Please do not hesitate to contact us on e-mail: office@alphrtechnology.ro; sales@alphrtechnology.ro or by phone: +40 357 800 444.

Yours truly,
ALPHR Technology Europe Team