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.

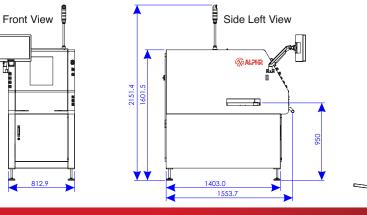
During a single pass, the PCB is clamped and transported on a width adjustable conveyor under a fixed laser unit able to mark an area as large as up to 330 by 330 mm with one stop, or even up to 330 by 450 mm when necessary, using the second stopper, a standard feature on the machine.

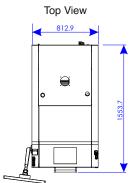
After being marked on the product, the code is scanned and the product is moved out the laser area and unclamped off the conveyor.



ILM-800 Laser Marking configurated on demand







Tehnical specification ILM-800 Laser Marking

Laser Head			
Laser neau			
Laser Head Manuf	acturer	Keyence	Keyence
Laser Head model		MDX-1020C	MDU-1020C
Laser Warranty pe	riod	2 years 13 W	2 years 3 W
Laser Power (W)			
Laser Type		Hybrid [Fibre & YV04]	UV
Laser wavelength		· · ·	-
	ead lifetime (Houres)	1064 nm	355 nm
		100,000 hours	100,000 hours
Laser marking ca	apability Area (Second stopper enlarges	330x450mm	330x450mm
the longitudinal marking area of the machine from 330 mm up to 450 mm)			
Marking Area (mm&mm)		330x330mm	330x330mm
Marking resolution		0,005 mm	0,005 mm
Standard working distance (±variable width)		300mm [+/-21mm]	300mm [+/-21mm]
Marking speed (mr	n/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, GS DataBar Truncated, GS1 DataBar Truncated CC-
	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	0.1 - 330 mm Stationery marking, Moving marking (constant,	0.1 - 330 mm Stationery marking, Moving marking (constant,
Marking conditions	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)
Marking conditions	Workpiece style	Stationery marking, Moving marking (constant,	Stationery marking, Moving marking (constant,
Material handling	Workpiece style	Stationery marking, Moving marking (constant,	Stationery marking, Moving marking (constant,
Material handling Automatic width ad	Workpiece style	Stationery marking, Moving marking (constant, encoder)	Stationery marking, Moving marking (constant, encoder)
Material handling Automatic width ad Inline/Online	Workpiece style	Stationery marking, Moving marking (constant, encoder) YES Inline	Stationery marking, Moving marking (constant, encoder) YES Inline
Material handling Automatic width ad Inline/Online PCB transport meth	Workpiece style	Stationery marking, Moving marking (constant, encoder) YES Inline 13 mm wide belt with 3 mm edge sitting	Stationery marking, Moving marking (constant, encoder) YES Inline 13 mm wide belt with 3 mm edge sitting
Material handling Automatic width ad Inline/Online PCB transport meth Transport / Convey	Workpiece style	Stationery marking, Moving marking (constant, encoder) YES Inline 13 mm wide belt with 3 mm edge sitting Stainless steel topguide bar	Stationery marking, Moving marking (constant, encoder) YES Inline 13 mm wide belt with 3 mm edge sitting Stainless steel topguide bar
Material handling Automatic width ad Inline/Online PCB transport meth Transport / Convey Working Direction -	Workpiece style g & table ljustment nod or Dual Direction	Stationery marking, Moving marking (constant, encoder) YES Inline 13 mm wide belt with 3 mm edge sitting Stainless steel topguide bar L In - L Out / L In - R Out / Pass Through	Stationery marking, Moving marking (constant, encoder) YES Inline 13 mm wide belt with 3 mm edge sitting Stainless steel topguide bar L In - L Out / L In - R Out / Pass Through
Material handling Automatic width ad Inline/Online PCB transport meth Transport / Convey Working Direction - Conveyor Speed -	Workpiece style g & table ljustment nod or Dual Direction Dual Speed	Stationery marking, Moving marking (constant, encoder) YES Inline 13 mm wide belt with 3 mm edge sitting Stainless steel topguide bar L In - L Out / L In - R Out / Pass Through 14 - 1,4 m / min	Stationery marking, Moving marking (constant, encoder) YES Inline 13 mm wide belt with 3 mm edge sitting Stainless steel topguide bar L In - L Out / L In - R Out / Pass Through 14 - 1,4 m / min
Material handling Automatic width ad Inline/Online PCB transport meth Transport / Convey Working Direction - Conveyor Speed - Two marking positio	Workpiece style g & table ljustment nod or Dual Direction	Stationery marking, Moving marking (constant, encoder) YES Inline 13 mm wide belt with 3 mm edge sitting Stainless steel topguide bar L In - L Out / L In - R Out / Pass Through 14 - 1,4 m / min YES	Stationery marking, Moving marking (constant, encoder) YES Inline 13 mm wide belt with 3 mm edge sitting Stainless steel topguide bar L In - L Out / L In - R Out / Pass Through 14 - 1,4 m / min YES
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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 tracebilit 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: <u>office@alphrtechnology.ro</u>; <u>sales@alphrtechnology.ro</u> or by phone: +40 357 800 444.

Yours truly, ALPHR Technology Europe Team

Automated Solutions by

