Prey
By Detech

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Kite
Inline Laser Marker

Developed in the UK and distributed worldwide, the Prey range of equipment by Detech Europe Limited is a continually developing and improving windows 11 based software interface combined with a quality hardware platform.

Based upon Detechs many years of experience in the electronics manufacturing sector, the Prey range is designed to offer customers what they want and need, while keeping costs down and implementation simple.

The Prey range offers a price competitive solution that makes full inspection capabilities accessible at almost every budget without sacrificing functionality and ease of use. Our systems have been optimised for remote support to enable us to get our customers answers fast, meaning their manufacturing process can have maximum up time.

Our Kite Inline Laser Marker provides users with the ability to enable full trace-ability at a cost effective price point while matching the quality of machines at more than twice the price. Using our own bespoke software developed in house, the Kite is capable of marking both 1D and 2D Barcodes, QR Codes, Data Matrix's as well as Characters and other drawing data provided.

Using a precision X and Y Axis Motion Platform the Kite provides an impressive repeatable accuracy of +/- 0.025mm and utilises a dual camera system for the Fiducial Recognition and Marking Confirmation to ensure that every engraved barcode is readable before leaving the machine.

With an optional integrated PCB Flipper, the Kite is also capable of marking double sided boards in a single machine, providing a quick solution for allowing trace-ability on each side of the board.

The Kite comes with a built in, latest generation Windows 11 PC and operated with our bespoke in house developed software, designed from the ground up for 64bit Windows 11.

Prey combines all its systems with our tried and tested rework and trace-ability solutions to give any user a complete picture of their manufacturing process.

Contact us for more information or to request a live demonstration at **sales@detech-europe.com** or call us on **+44 (0)1262 409944**

Kite Laser Maker - Inline Cell Options

The Kite Laser marker can be configured in different ways depending on the requirements and available space:
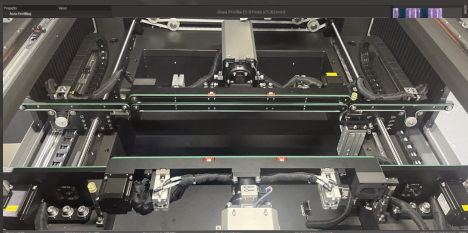
Standard Inline Cell
A standard Inline Cell utilises both a Magazine Loader and Unloader at either side of the Laser Marker to create a small individual line, this option allows for marking any boards, without disturbing the production line, allowing for it to be used, any time, in preparation for upcoming productions, or even as a final step to the manufacturing process.
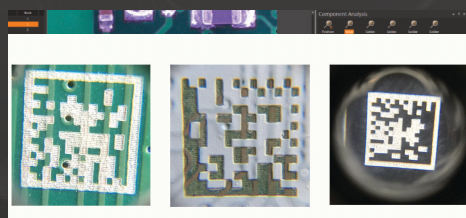
Combined Loader and Unloader
A new and bespoke option that we have designed utilises a Vacuum Destacker and Restacker, all in one machine, allowing for a more compact Offline Cell option with only two machines meaning, the Laser Marker can sit up against a wall with only the Loader / Unloader before it, reducing the amount of space needed for the system.

This option means that boards can be destacked from a pack of bare PCBs and enter the machine ready to be marked. Once tested, the bare PCB is then ejected in the same direction where it is then picked up and restacked in a seperate section of the Loader and Unloader, providing a complete, all in one solution.
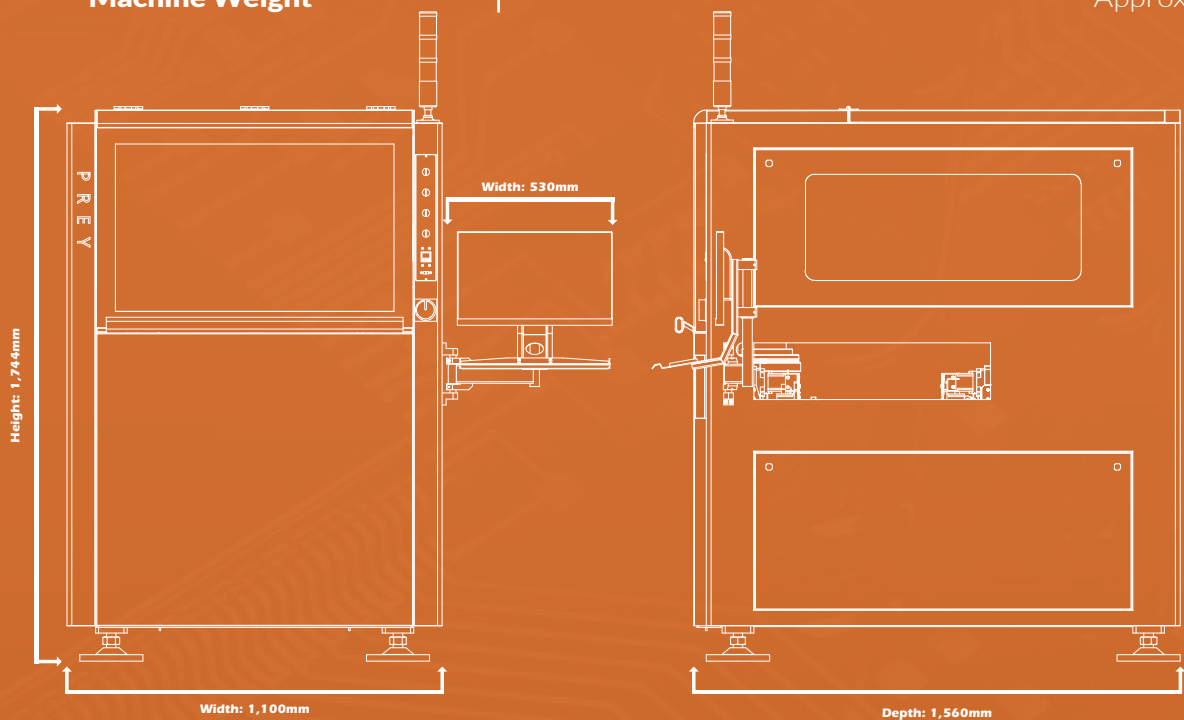
Optional Integrated Inverter   1D and 2D Barcode Marking   Windows 11 Based Software

Technical Specifications

Laser Type	CO2 Laser Marker
Laser Wave Length	10,640Nm
Laser Head	USA Made Synrad Laser System
Laser Power	30W Max Power
Optimal Marking Distance	75mm From PCB Surface
Working Method	X / Y Axis Laser Head Movement
Laser Cooling System	Forced Air Cooling
Barcode Size (Min / Max)	2mm x 2mm / 55mm x 55mm
Repeatable Accuracy	+/- 0.025mm
Positioning System	CCD Fiducial Mark Recognition
Minimum PCB Size	Standard: L: 70mm x W: 50mm | Flipper Option: L: 100mm x W: 100mm
Maximum PCB Size	Standard: L: 510mm x W: 510mm | Flipper Option: L: 510mm x W: 460mm
PCB Thickness Range	0.5mm - 3mm
PCB Edge	Top: 3mm | Bottom: 5mm
PCB Component Clearance	Top: 80mm | Bottom 15mm
PCB Clamping System	Standard Edge Clamping
Conveyor System	900mm +/- 20mm, Left To Right
Marking Capabilities	Characters, 1D and 2D Barcodes (QR Code and Data Matrix)
Power Requirements	1Ph, AC 220V, 50/60Hz
Power Usage	2Kw
Machine Size	L: 1,100mm x W: 1,560mm x H: 1,744mm
Machine Weight	Approximately 900Kg

Height: 1,744mm

PREY

Width: 530mm

Width: 1,100mm

Depth: 1,560mm

Designed and Made in the United Kingdom

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Cost Effective Inspection Without Compromise

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