Prey
By Detech

Hawk Screen Printer
Machine Brochure

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Hawk

Screen Printer

Prey By Detechs Automatic Hawk Screen Printer offers high quality and reliable solder paste printing for PCB Assembly. A robust platform offers excellent repeatability ensuring a

The Inline system has an automatic vision recognition system combined with a high-precision servo drive to achieve fast and accurate alignment; this gives a print accuracy level of +/- 0.01mm. A total cleaning system, with a sub 7 second cycle time ensures high printing quality while reduced downtime for cleaning.

A Windows 10 OS backed by an easy-to-understand graphical user interface makes using the system extremely simple. Featuring a range of controllable functions such as: setting of printing height, squeegee pressure, printing stroke, print speed and stencil cleaning cycle.

The Hawk is designed to maintain a high print quality at a very competitive cost while still offering the flexibility needed for today's modern PCB requirements.

The Hawk Screen Printer comes with all options such as cleaning and 2D inspection as standard. Detech also includes several different board support types as well as varying lengths of squeegee to create a fully flexible print solution.

The stencil cleaning system includes 3 cleaning types, dry, wet and vacuum. These three modes can be individually selected or combined for a total cleaning solution. The system allows manual cleaning through its operation menu if this is preferred.

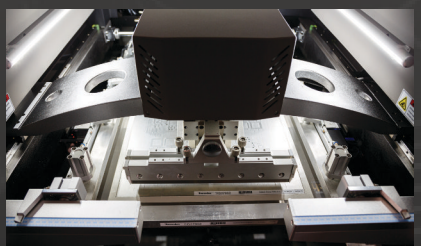
The print head has been designed to control pressures at the front and rear squeegees, this gives a high level of control to maintain consistent and defined print, without scooping or slumping. Each squeegee's pressure can be independently programmed offering maximum flexibility.

Fully included with the Hawk Screen Printer from 2021 there is now a 2D inspection module built into the software, this allows for the checking the solder pastes definition of print to alert you to any misprints that could be caused by low solder deposits due to lack A solder on the stencil as well as also checking for blocked apertures.

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

Truly Unique 2D Inspection

Vacuum Clamping (Optional)



Programmable Print Head

2D Inspection

Technical Specifications

Minimum PCB Size (X/Y)	450mm x 340mm
Maximum PCB Size (X/Y)	50mm x 50mm
PCB Thickness	0.4mm - 0.6mm
PCB Warpage	Max PCB Diagonal 1%
Maxiumum PCB Weight	Upto 6kg
Plate Edge Clearance	Up to 3mm
Transport Speed	1,500mm/sec (Maximum)
Transport Height	900+/-40mm
Transport Direction	Left -> Right, Right -> Left, Left -> Left and Right -> Right
Transmission Mode	Single Stage
Clamping System	Patented Over The Top Clamping / Side Clamping
Support System	Magnetic Pin / Support Blocks
Print Head	Two Independent Motorised Print Heads
Frame Size	370mm x 470mm - 737mm x 737mm
Squeegee Type	Steel/Rubber Squeegee Blade (Angle: 45/55/60)
Squeegee Length	200mm up to 500mm
Squeegee Height	65+/-1mm
Squeegee Thickness	0.25mm Diamond-like Carbon
Print Mode	Single or Double Squeegee Printing
Print Speed	0.02mm - 12mm
Print Pressure	6mm/sec - 200mm/sec
Print Route	0.5kg - 10kg
Stencil Snap-off Size Range	+/-200mm (From The Center)
Camera FOV	6.4mm x 4.8mm
Adjustment Range	X,Y:±7.0mm,0±2.0°
Vision System	Look Up/Down Optics Structure/CCD/Geometry Pattern-match
Repeat Position Accuracy	+/-0.01mm
Printing Accuracy	+/-00.25mm
Cycle Time	<= 7s
Changeover Time	<= 5 Minutes
Power Supply	AC220VAC, 50/60Hz, Single Phase, 3 Pin Plug - 3KW
Air Supply	4 - 6Kg/cm2, 8mm Diameter Tube
PC Operating System	Windows 10
Machine Dimensions	1,140mm x 1,400mm x 1,480mm
Machine Weight	1,000kg

Prey By Detech

Cost Effective Inspection Without Compromise

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