

# LineMaster Falcon Plus

## Inline AOI System



The LineMaster Falcon Plus is ASC International's latest innovation for complete in-line AOI process control. With more than 30 years of supporting the electronics manufacturing sector with state of the art inspection solutions, the Falcon Plus couples the most advanced sensor technology and intuitive programming software to create an unmatched performance and user experience.

The Falcon Plus offers all the capabilities of machines more than twice the cost. Incorporating a 5MP camera and up to a 10um X-Y telecentric lens, the system gives the ability to inspect components as small as 01005's. A robust yet flexible universal carrier system give the user the flexibility to quickly insert a PCB up to 600mm x 460mm for the XL and 460mm x 460mm for Standard. Simply load it and quickly inspect with the press of a single button. Once complete, the PCB is returned to the load point ready for the next PCB to be loaded.

The Falcon Plus includes full 1D and 2D barcode reading suite as standard to offer a fully traceable solution that can be combined with the user friendly defect review station suite. The Falcon Plus combines excellent mechanical stability with the latest Windows 10 and 64 bit software development to give one of the most truly unique inspection solutions found anywhere in today's global market.

**ASC International, Inc.**

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### Technical Data: FALCON

Camera	Top 5M Pixels Camera
Camera Resolution	Standard : 15um, Optional 10um
Lighting	4 Colour Lighting Ring (RGBW)
X / Y Movement	AC Servo Motor Ball Screw and Linear Rail
PC Configuration	i7 - P4 Intel Dual 2.5GHz, 6GB DDR3 Memory, 1TB HDD and CD-ROM
Power Supply	1P, 100-220V, 50/60Hz, 10A
Machine Dimensions	Length: 1013mm x Depth: 1,200mm x Height: 1,810mm
Machine Weight	795kg
Operating System	Windows 10
Programming	CAD File Loading, Manual Teaching
Statistic Data Function	SPC Software
Minimum PCB Size	50mm x 50mm
Maximum PCB Size	460mm x 460mm
Maximum PCB Thickness	<6.0mm
Clearance	Top: 40mm Bottom: 40mm
Clamping Edge	>3.0mm
Component Inspection Tests	Missing, Reversed, Shift, Damaged, Skew, Tombstone
Solder Inspection Tests	No Solder, Insufficient/Extra Solder, Bridge
Smallest Component Inspection	Chip: 0201 (15um Lens), Chip: 01005 (10um Lens)
Barcode Reader	1D or 2D Barcode Reading Via Camera

### New for 2021.

1. New RGBW lighting unit provides uniform lighting over an increased field of view and improves detection of shallower joints.
2. Optional 12 Megapixel camera to allow either increased optical resolution or a larger field of view at the current resolution to increase inspection speed (available Spring 2021, will be fully retrofittable).
3. Inline Falcon system available offering complete program compatibility with Merlin benchtop.
4. Software interface remains the same so no retraining of operators or programmers required from previous versions.
5. All systems have 3 fiducial correction allowing for stretch, shrunk and skewed PCBs.
6. Unique Analysis button that allows the software to work with you and train component fluctuations.
7. The Falcon is a fully CE Certified system offering unmatched value and reliability on a Windows 10 coded software interface giving the user many years of use backed by a full engineering and software development team.

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