ECM LUNA series with Touchless Flying Vision





ECM LUNA 700 FV CONSOLE

ECM LUNA MINI V
ECM LUNA 600 V
ECM LUNA 600 FV
ECM LUNA 700 FV
ECM LUNA 700 FT
ECM LUNA 800 FT

- MOST COST EFFECTIVE SMT MOUNTER
- WIDE COMPONENT COVERAGE 0201 (0603 -metric) CHIP up to 40mm SQUARE BGAs, FINE PITCH QFPs (15 mil), CSPs etc
- FEEDER CAPACITY OF 48 TO 81 NOS
- PLACEMENT SPEED OF 3000 CPH WITH FLYING VISION
- WINDOWS BASED SOFTWARE

The LUNA series of Mounters are the most cost effective SMT Mounter offering widest component range thanks to new technology BLUE ILLUMINATION fully Automatic Vision System.

LUNA VISION



Bottom LUNA vision camera



The LUNA VISION SYSTEM comes with FIXED BOTTOM CAMERA and with BLUE ILLUMINATION, that is unaffected by ambient light. Light. (The Vision System also includes SIDE and BOTTOM LIGHTING techniques). The LUNA VISION on its own can handle wide component from 0201 chip up to 40mm Square size GA/QFP, Fine Pitch devices up to 15mil. The Placement speed will be 1000 cph, with placement accuracy of 0.05mm

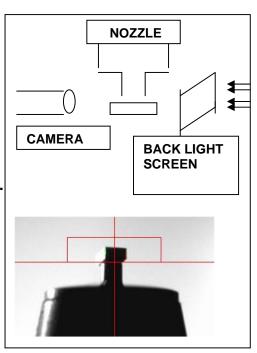
Flying LUNA 2 heads for 700 FT

FLYING LUNA VISION (Patent Pending)

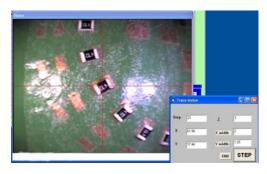
For improving the speed on chip components up to 3000 cph , LUNA series machines can be fitted with Optional FLYING CAMERA again with BLUE ILLUMINATION, offering TOUCHLESS ON THE `FLY VISION ALIGNMENT.

The Placement Head is fitted with a tiny camera on One side of the Nozzle and a Back Light Screen on The other side to view the component as black Images. The processing algorithm then calculates X, Y component width and center and also Component thickness for precise alignment and placement. The FLYING VISION head can handle from 0201 chip up to 10mm square components or 16 pin SOIC. With optional 2nd head, placement speed of 3600 cph can be achieved.

FLYING VISION HEAD



AT A GLANCE INSPECTION



Advanced software and a full-color camera allows these machines to not only pick & place a wide range of parts, but to perform post-placement inspections as well. Not only is programming time reduced, because the software automatically uses placement data for inspection, but so are personnel requirements; only one person is needed to perform both placement and inspection tasks. Assemblies are inspected step by step: a shape that that corresponds to the part type and preset placement tolerances is superimposed onto an image of

the actual part on the board, allowing the operator to verify placement quality at a glance before the system moves on to the next part. No other pick & place machine verifies placement accuracy like this.

WINDOWS BASED OPERATING SYSYTEM

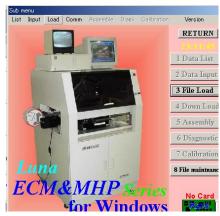
The basic operating system is WINDOWS based All aspects like Programming, Operation, Maintenance are thru windows making usage Quite easy.

OTHER STANDARD FEATURES

- AC Servo Motor Drives for X,Y Movements
- Stepper Motor Drives for Theta and Z axis movement
- Full Color FIDUCIAL/TEACHING CAMERA
- Universal CAD Conversion software
- Deluxe Console
- PC and Monitor
- 2 Feeder bases

OPTIONS

- Tape Feeders: 8, 12, 16, 24, 32,44 mm Feeders
- Stick Feeder: Single Lane or Multi-Lane Vibratory Stick Feeder
- IC Tray Feeder: Manual Tray or Auto 10 Tray feeder
- Dispenser : Digital Dispenser with height Sensor Available only on one head models
 - PCB Conveyor: Up to Max PCB width of 250mm
 - Additional Feeder base to increase feeder capacity
 - Exchangeable Feeders Bases



SPECIFICATIONS

SPECIFICATIONS	i				
PARAMETER	MODEL 600 V / FV	MODEL 700 V / FV	MODEL 800 V / FV		
PCB SIZE Max	260mm X 250mm	385mm X 355mm	470mm X350mm		
Min		50mm x 50mn	n		
Thick		0.8 - 2.3mm			
Feeder Capacity	48	48	54		
Expandable to with		68	81		
additional feeder base		PCB size will	PCB size will reduce to		
		reduce to 310X355	400X350		
Placement Speed	1000 cph with LUNA VISION 'V' Model 3000 cph with FLYING VISION 'F' Model 3600 cph with 2 FLYING VISION HEADS				
	'FT' Models				
Placement Accuracy	+ / - 0.1mm by Flying Luna Vision				
	+/- 0.05mm with Luna Bottom Vision				
Applicable Components	Fine Pitch up to 15mil.				
	0201 chip to 16 pin SOIC with Flying Vision				
Drives	X, Y axis , AC Servo	•			
	Theta axis Stepper Motor 0.03 deg step				
	Z axis Stepper Motor 0.05mm step				
Dimensions with	700(W) X 800 (D)	700(W) X 800 (D)	840(W) X 840 (D)		
Console	X 1350 (H)	X 1350 (H)	X 1350 (H)		
Weight	150 Kg				
Power Supply	AC 100 V to 240 V , 50 Hz, Single Phase				
Air Supply	0.5 Mpa, 60 – 80 NI / min clean dry air				
Controller	IBM PC Compatible RAM 256 M, HDD 1G min				
Environment	Windows Xp / 98/ Me compatible				
Environment	Temperature 10 to 30 deg centigrade, Humidity 50-80%				
Body Color	Ivory Semi-mat Tape Feeder 8,12,16,24,32,44mm				
Feeder Options	Max Capacity: 8mm-48, 12mm & 16mm – 24, 4mm – 16, 32mm – 12 Stick Feeder: Single, MultiLane Vibratory Stick IC Tray: Single Tray fitting on one feeder base (or) Single				
	Tray fitting in PCB Area with reduced PCB Size OR 10 Tray Auto Tray feeder				
Dispenser Option		•	00 dots per hour Only one		
Diopondor Option		possible (V or FV mod			
PCB Conveyor Option	•	, Edge Reference PCB Conveyor – Max PCB Width will be			
. 32 contayor option	250mm	. 555 i 65 661110y01			
Exchangeable Feeder		der Base option is Fac	ctory Fitted		
Base			, ,		

Distributor					

Manufacturer

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