

LUNA Exp series ***with Touchless Flying Vision***



ECM LUNA EXP Duo CONSOLE

**Unique design
makes cost reduction
Contact with your
Distributor**



ECM LUNA EXP CONSOLE

- **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 54/108 (Duo)**
- **PLACEMENT SPEED OF 2500/5000(Duo) 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

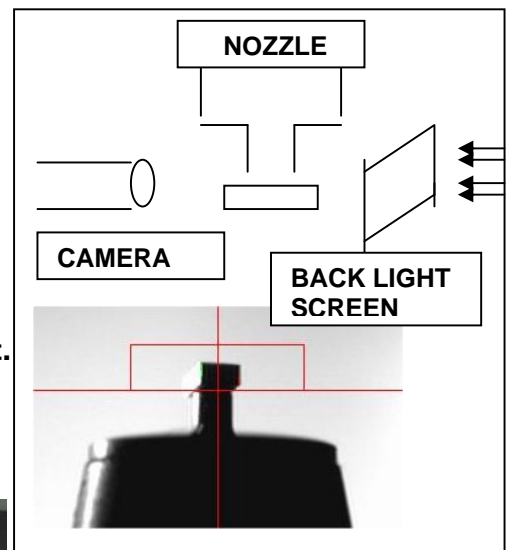
The LUNA VISION SYSTEM comes with FIXED BOTTOM CAMERA and with BLUE ILLUMINATION, that is unaffected by ambient light. Light. (The Vision System also includes SIDE and BOTTOM LIGHTING techniques). The LUNA VISION on its own can handle wide component from 0201 chip up to 40mm Square size GA/QFP, Fine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

FLYING LUNA VISION (Patented)

For improving the speed on chip components up to 4000 cph, LUNA series machines can be fitted with Optional FLYING CAMERA again with BLUE ILLUMINATION, offering TOUCHLESS ON THE FLY VISION ALIGNMENT.

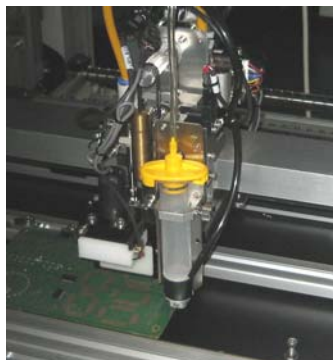
The Placement Head is fitted with a tiny camera on One side of the Nozzle and a Back Light Screen on The other side to view the component as black Images. The processing algorithm then calculates X, Y component width and center and also Component thickness for precise alignment and placement. The FLYING VISION head can handle from 0201 chip up to 10mm square components or 16 pin SOIC. With optional 2nd head, placement speed of 5000 cph can be achieved.

FLYING VISION HEAD

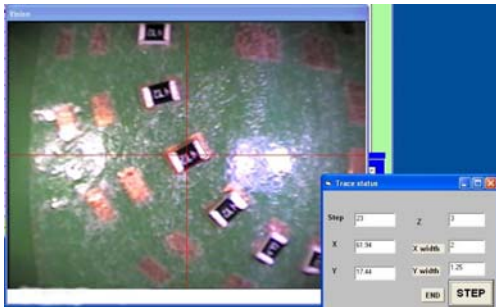


Dispenser option

Temperature controlled digital dispenser is option and the height sensor enable to dispense on a warped PCB.



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 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.

WINDOWS BASED OPERATING SYSTEM

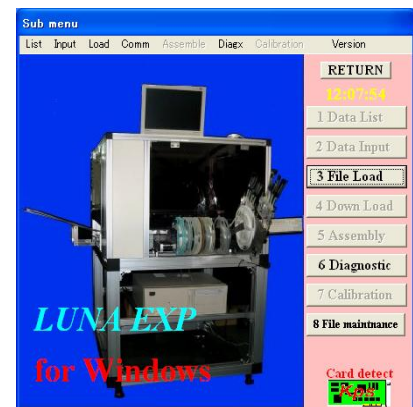
The basic operating system is WINDOWS based All aspects like Programming, Operation, Maintenance are thru windows making usage Quite easy.

OTHER STANDARD FEATURES

- AC Servo Motor Drives for X,Y Movements
- Servo Motor Drives for Z axis movement
- Full Color FIDUCIAL/TEACHING CAMERA
- Universal CAD Conversion software
- 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
 - 8 lane Bulk feeder for 0402
 - IC Tray Feeder : Manual Tray
 - Bar code reader for tape reel data input and check
 - Dispenser : Digital Dispenser with height Sensor
Available only on one head models
- PCB Conveyor : Up to Max PCB width of 350mm
High speed model **EXP Duo and trio** series.



SPECIFICATIONS

PARAMETER	MODEL EXP	MODEL EXP Duo/Trio	MODEL EXP Duo/trio mini
PCB SIZE Max	430mm X 350mm	350mm X 350mm	200mm X 250mm
Min	50mm x 50mm		
Thick	0.8 – 2.3mm		
Feeder Capacity	54	108/144	54/72
Placement Speed	1000 cph for QFP 2500 cph for chip	5000/7500 cph for chip	5000/7500 cph for chip
Placement Accuracy	+ / - 0.1mm by Flying Luna Vision +/- 0.05mm with Luna Bottom Vision		
Applicable Components	0201 chip to 40mm square components with Luna Bottom Vision , Fine Pitch up to 15mil. 0201 chip to 16 pin SOIC with Flying Vision		
Drives	X, Y axis , AC Servo Motor 0.01mm step Theta axis Stepping Motor 0.03 deg step Z axis Servo Motor 0.02mm step		
Dimensions with Console	800(W) X 860 (D) X 1395 (H)	1600/2100(W) X 860(D) X 1395(H)	1200/1800(W) X 700(D) X 1395(H)
Weight	150Kg	330/450 Kg	300/400Kg
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 Windows Xp / 98/ Me compatible		
Environment	Temperature 10 to 30 deg centigrade , Humidity 50-80%		
Body Color	Ivory Semi-mat		
Feeder Options	Tape Feeder 8,12,16,24,32,44mm Max Capacity: 8mm-54, 12mm & 16mm – 24 , 4mm – 16, 32mm – 12 for EXP model 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 Bar code reader for tape reel. Tape feeder stocker (with /without cart)		
Dispenser Option	Digital Dispenser with Height Sensor , 6000 dots per hour		
PCB Conveyor Option	L to R , Edge Reference Max PCB Width 350mm	Installed Max PCB width 350mm	Installed Max PCB width 200mm
Exchangeable Feeder Base	Exchangeable Feeder Base option is Factory Fitted		

Subject to change without notice

Augr,2009

<p>Distributor</p>

Manufacturer
MDC Co., Ltd
 1-51-4, KumegawaKouzyouDanchi202
 Kumegawa-machi, Higashimurayama
 Tokyo, Japan 189-0003
 Tel: 81-42-391-2111
 Fax: 81-42-391-2113
 e-mail: info@mdc-smt.co.jp
 URL: www.mdc-smt.co.jp