



Table-top Single Shot Ball Mounter

MODEL : STM-203FB

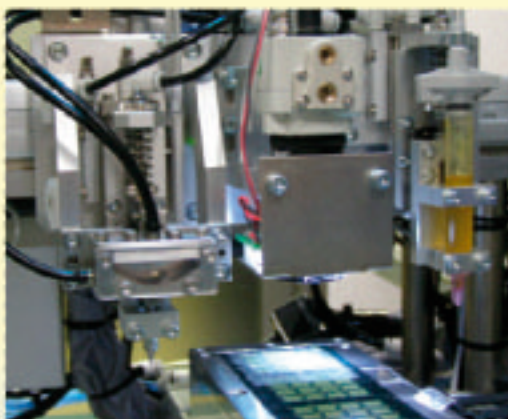
The new Table-top Single shot Solder Ball Placement System model STM-203FB is designed specially for prototyping, R&D, low volume production and re-balling for Ball Grid Array type IC packages and substrates.

Newly adopted Color Wide Touch Screen for both machine operation and parameter setting enable to simply set various kind of ball placement pattern, also display camera image. Solder ball placement can be made with unique solder ball separation unit which is simply detachable and replaceable. Before solder ball placement, applying flux is rightly required hence the system has built-in flux Dispenser which enable to apply small volume of flux on each pads of BGA according to the placement pattern being set beforehand.



Features

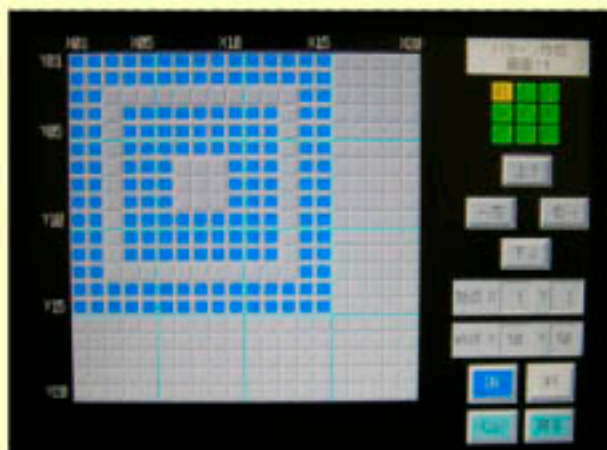
- ◊ Wide front door for accessibility to every mechanical modules
- ◊ Work stage accommodates 3mm square - max. 160x130mm flat work piece.
- ◊ Color wide touch screen for easy operation and parameter setting
- ◊ Small footprint
- ◊ Line voltage : AC100V - 240V



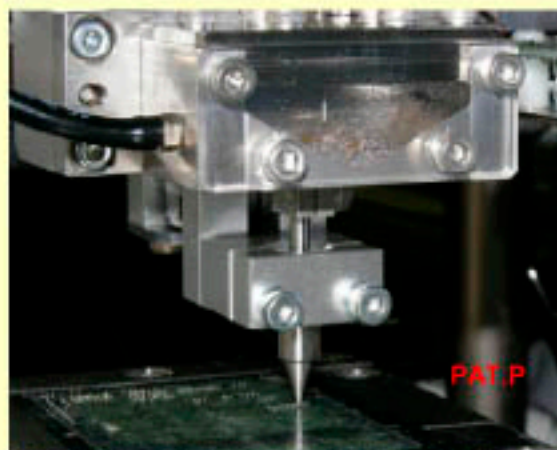
Ball separation unit, Flux Dispenser



Color Touch Screen



Placement pattern setting



φ 0.3mm solder ball, 0.5mm pitch placement

Specifications

Machine Dimensions	W750 × D540 × H385 mm
Weight	55 Kg - Packed: 80 Kg
Safety Function	Interlock door sensor - Emergency stop
Operation & Parameter setting	8" colour Touch screen
Work Stage	Servo motor driven in Y axis, loading area Max 120 × 60 mm
Ball singulation head	Servo Motor driven in X axis, Air Actuator in Z axis
Camera	For Placement position and visual inspection
Image magnification	50x or 30x magnification selectable

Capability

Ball Size	diam 0,75 mm to 0,3 mm
Ball placement speed	1,0 sec
Flux dispensing speed	0,8 sec
Program memory capacity	50 patterns
Ball placement pattern	Max 50 × 50 points in matrix pattern

Facility Requirements

Electrical	AC100-240V - 50/60Hz
Compressed Air	0,4Mpa - 3,0 L/min
Vacuum	24 Kpa
N2 gas	0,4 Mpa, 1,0 L/min

Option:

1. Ball separation unit assembly (required depend on ball size)
2. Flux Needle
3. Extension work-stage plate (W220 x D200mm)



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