Grup Endüstri Otomasyon
Ticaret ve Sanayi Limited Şirketi

Amazing LED Production System

SLM100 Series

SAMSUNG

High-Speed, SMART LED Mounter

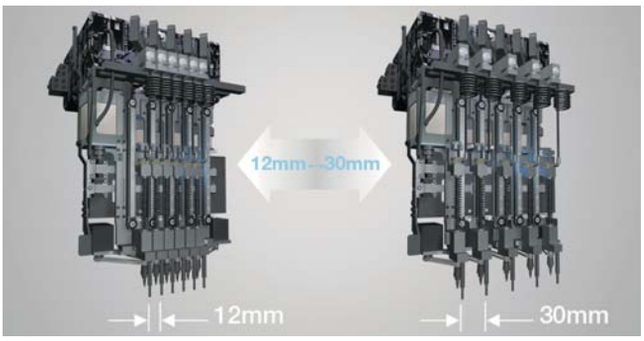
The world's first SLM100 series LED mounter capable of realizing simultaneous pickup with one feeder It provides an optimum LED production system.

- Simultaneous pickup solution with one feeder (patent pending)
- Champion speed: Chip 43.000 Cph
- Component range:
  0603 mm (0201 inch)-32x32 mm (H:8.5 mm)
- PCB size: Min. 80 (L) x 50 (W) (standard)
  Max. (1 PCB) 1.200(L) x 356 (W)
  Max. (2 PCB) 330 (L)x250 (W) (for SLM120)
- Compact size (LxD): 1.650 mm x 1.200 mm
- Non-stop recognition by flying vision system
- Reinforced convenience function dedicated to LED
- Built-in tape cutter (option)

Simultaneous Pickup Solution with One Feeder, Highest Speed LED Production System in the World

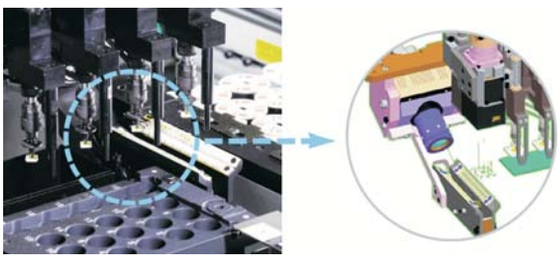
Motorized Feeder Dedicated to LED
Five parts can be picked up simultaneously with one feeder.

Head with Variable Pitch
The pitch is automatically changed to the pitch between parts for part pickup, and to PCB array pitch for part placement.



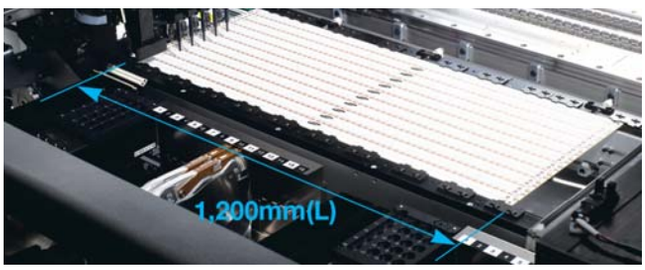
Non-stop Recognition by Flying Vision System

Refers to the function recognizing parts without stopping during movement after part pickup using Samsung's own 'On-the-Fly' image recognition technology. It maximizes part placement speed by making the recognition time zero.



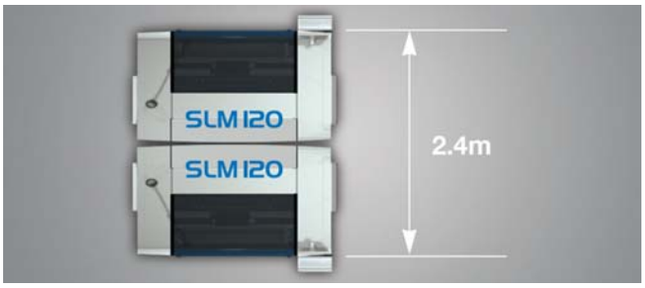
Reinforced Applicability to Long Board

Allows placement of LEDs on large LED lighting PCBs with a maximum length of 1.200 mm



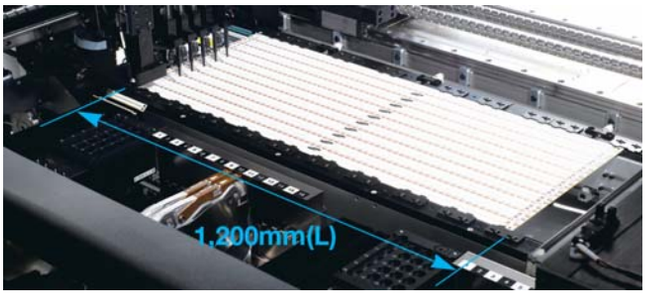
Applicable to Parallel Arrangement of Machines

Compact machine size (D1.2 m) and one-side operation allows parallel arrangement of machines.



Simultaneous Placement of Two PCBs

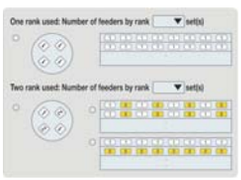
Allows placement of two PCBs simultaneously according to PCB size, maximizing productivity.



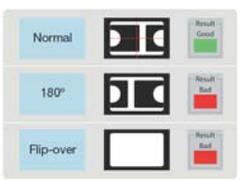
Reinforced Convenience Function Dedicated to LED

Function for automatic arrangement of placement points by rank

Minimizes the time to create a program by automatically setting feeders by rank when selecting a working method according to the characteristics of the PCB.



LED Flip-over check function
Automatically checks for flip-over and the incorrect insertion of LED through 180° the vision system, preventing defective placement in advance.



LED rank management system
As a system that manages the brightness of LED parts by rank, it compares and manages produced products and rank information of LED parts by applying a barcode system.

Part misplacement prevention (Rank alarm function)
Sounds an alarm to the operator to prevent part misplacement when there is difference in the rank between a product being produced and a part.

Automatic feeder link and advance alarm function
When a feeder in operation has run short of parts, this function allows the feeder to be changed automatically and generates an alarm for part replacement simultaneously, reinforcing the non-stop operation and work convenience.

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Specifications

Model			SLM110	SLM120
Alignment			Flying vision	Flying vision
Number of spindles			5 spindles x 1 gantry	5 spindles x 2 gantry
Placement rate	Flying vision		Chip 21.500 cph (champion speed)	43.000 Cph (champion speed)
Placement accuracy	Chip		±80 µ@ µ +3 Sigma (Based on the standard chips)	±80 µ@ µ +3 Sigma (Based on the standard chips)
Component range	Flying vision		0603 mm (0201 inch)-32 x 32 mm IC	0603 mm (0201 inch)-32 x 32 mm IC
	Max. Height		H= 8.5 mm	H= 8.5 mm
Board dimension (mm)	Minimum		80 (L) x 50 (W)	80 (L) x 50 (W)
	Maximum	1PCB	1.200(L) x 356 (W)	1.200(L) x 356 (W)
		2PCB	-	330 (L) x 250 (W)
	PCB Thickness		0.38 ~ 4.2	0.38 ~ 4.2
Feeder capacity			16 ea	32 ea
Utility	Power		AC 220 ± 20 V (50 / 60 Hz, 3 Phase) Max. 2.6 kVA	AC 220 ± 20 V (50 / 60 Hz, 3 Phase) Max. 4.3 kVA
	Air consumption		0.5~0.7 MPa (5.1 ~ 7.1 kgf / cm^2) 200 Nl / min	0.5~0.7 MPa (5.1 ~ 7.1 kgf / cm^2) 400 Nl / min
Mass			Approx. 1.200 kg	Approx. 1.250 kg
External dimension			1.650 (L) x 1.200 (D) x 1.405 (H) mm	1.650 (L) x 1.200 (D) x 1.405 (H) mm

Unit: mm