

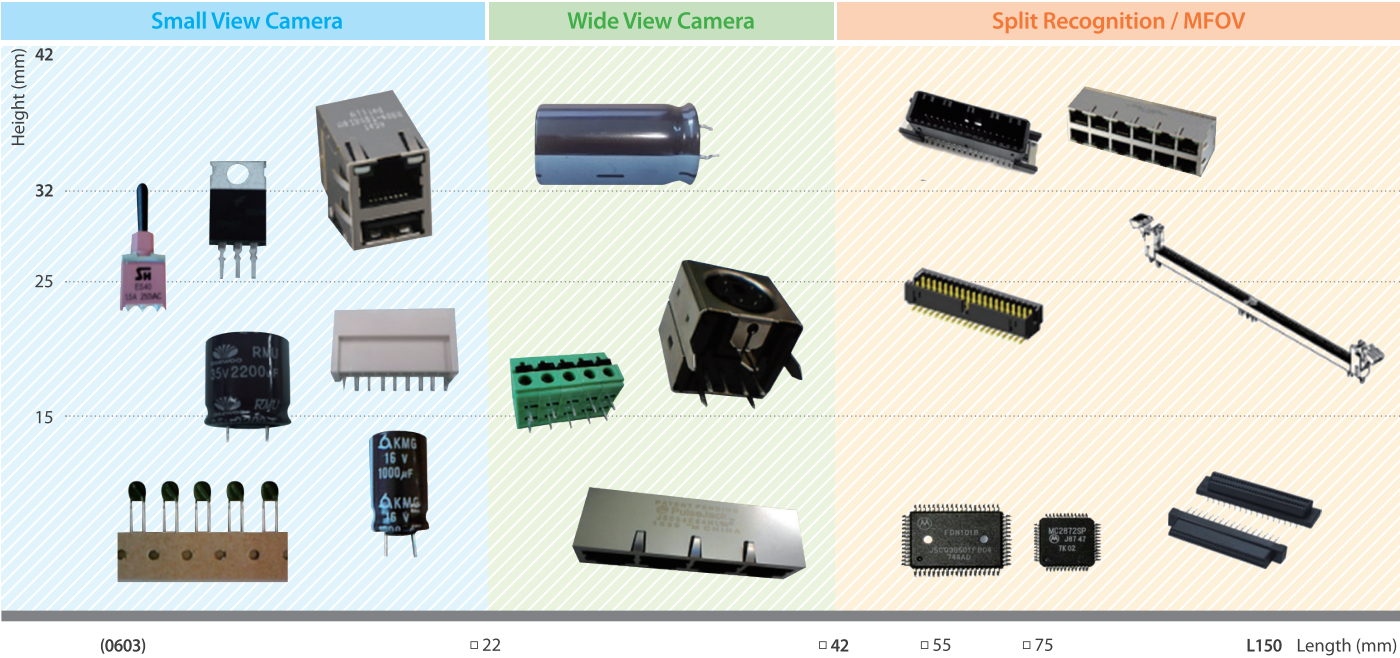
Smart Hybrid Mounter

SM485P

Specifications		
Alignment		4 Small Fix Camera + 1 Wide Fix Camera
The number of spindles		4 spindles x 1 Gantry
Placement Speed		12,000 CPH (Optimum)
Placement Accuracy	Chip	±50 μm @ Cpk≥ 1.0
	IC	±30 μm @ Cpk≥ 1.0
Component Range	Small Fix Camera	0603 ~ □ 22 mm
	Wide Fix Camera	~ □ 55 mm, L150 mm
	Max. Height	32 mm (Standard), 42 mm (Special Order *)
PCB Size (mm)	Min.	L50 x W40
	Max.	~ L460 x W400 (Standard) ~ L460 x W280 (Option), ~ L460 x W340 (Option), ~ L610 x W460 (Option)
PCB Thickness (mm)		0.38 ~ 4.2
Feeder Capacity (8mm Standard)		120 ea/112 ea (Docking Cart)
Utility	Power	3 phase AC 200±18V / 208±19V / 220±20V / 240±22V / 380±25V / 415±28V (50/60Hz) Max. 3.5 kVA
	Air	5.0 ~ 7.0 kgf/cm ² 50 Nℓ/min (Vacuum Pump)
Weight		Approx. 1,600 kg
External Dimension (mm)		L1,650 x D1,679 x H1,993

* Special order, professional advice and recommendations are required.

Component Range & Feeder Solutions



• **USA** 6000 Phyllis Dr. Cypress, CA 90630, USA Tel : +1-714-373-4200
• **Europe** Tel : +82-70-7147-6322, 6311 Fax : +82-31-8018-3721
• **Asia** Tel : + 8 2 - 7 0 - 7 1 4 7 - 6 3 2 0 , 6 3 2 3 Fax : + 8 2 - 3 1 - 8 0 1 8 - 3 7 2 1
• **Head Office** 6, Pangyo-ro 319beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do 13488, Korea

• The dimensions, product specifications and values in this catalog are actual values measured under conditions designated by our company.
• The above items may differ depending on actual operating conditions. For the details related to options, please contact the person responsible for sales.

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Experience Your **SMART FACTORY**



Smart Hybrid Mounter

SM485P

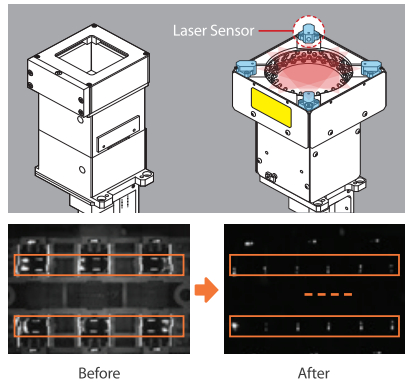
The **SM485P** mounter is a multi-functional hybrid mounter that can quickly and reliably place odd-type components and SMD components.



Reliable Insertion & Verification Solutions

LASER Light

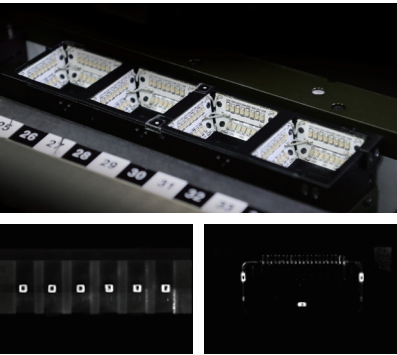
As 4-directional laser lighting for Wide Cameras, it reinforces the recognition of an individual lead pin of an insert component.



Laser Light For Small Camera (Option)

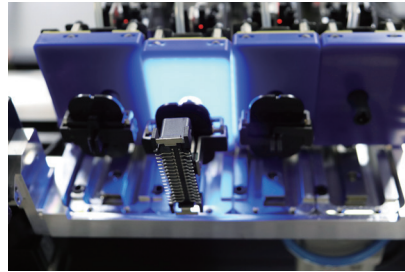
As laser lighting for Small Cameras, it can recognize even lead pins of a small and medium sized insert component

- Possible to recognize, inspect, and place an individual pin up to a Max. of □22mm simultaneously.



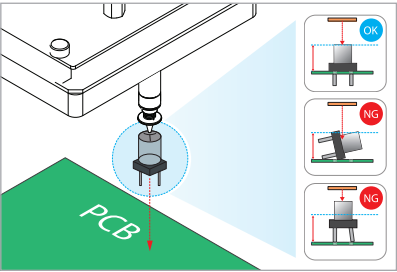
Back Light

Recognizes a semi-transparent and irregularly reflecting component correctly (Ex.: Shield Can, Lens, Tape, etc.)



Height Sensor (Option)

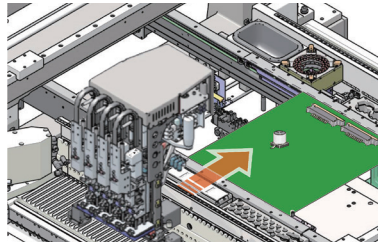
After placing a component, measures its height and detects non-insertion / lift-off / defective insertion of the component in real time.



High Productivity & Special Process Solutions

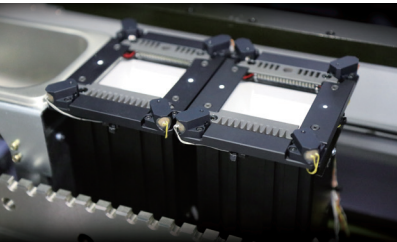
4 Precision Spindle Head (P4 Head)

Equipped with 4 cameras at the front, it can recognize and place 4 small and medium sized components simultaneously.



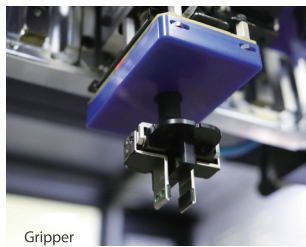
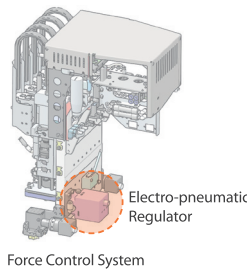
Dual Fix Camera (Option)

When equipped with a Dual Fix Camera at the rear, it can recognize and place 2 medium and large components simultaneously.



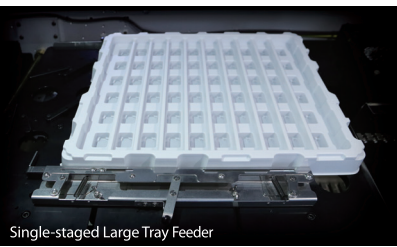
Special Process / Solution Applicable to Odd-shaped Component

- Insertion / Placement Force setup (Force Control): 0.5 ~ 50N
- Large / Long Component MFOV (Split Recognition): 2/3/4 split
- Gripper supported for insert component: ~ Max. H42mm



Large Component Supply Device

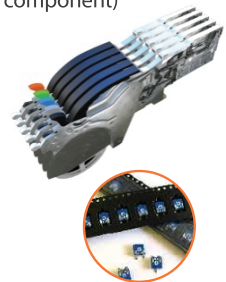
Possible to supply medium and large components (Tray Size: 420 x 350mm)



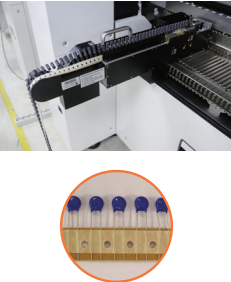
Various Feeders

Tape Reel Feeder

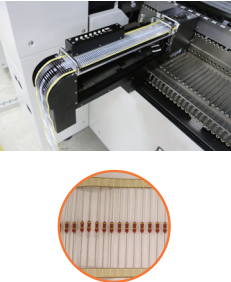
Tape Feeder
(SMD, Odd-shaped component)



Radial Feeder
(Insert Component)



Axial Feeder
(Insert Component)



Tray Feeder

Multi-staged Tray Feeder



Single-staged Tray Feeder

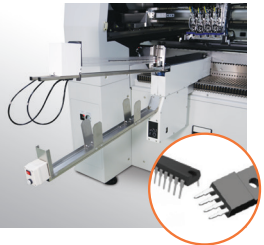


Stick Feeder

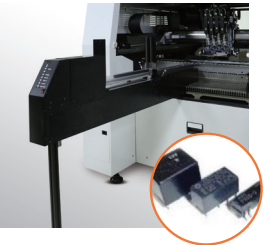
Multi Stick Feeder
(Vibration)



Stack Stick Feeder
(Vibration)



Stack Stick Feeder
(Pusher + Air)



Bulk Feeder (Bowl Feeder)

2-staged Bowl Feeder



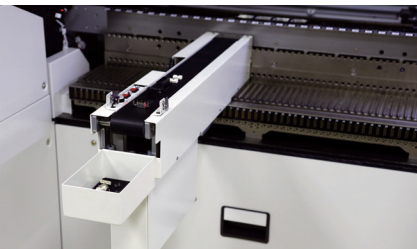
3-staged Bowl Feeder



Accessories

Reject Conveyor

Refers to a collecting device that discharges a large component out of the machine in time.



Removable Dump Box

Removable dump box for a feeder base



Offline Setup Unit

Refers to a feeder slot type setup machine that supplies power and pneumatic pressure to a manual component insertion machine.

Applicable Feeder
• Stack Stick Feeder (Vib)
• Radial/Axial Feeder



Maximum number of mountable feeders

Description	Tape Reel Feeder		Stick Feeder			Bowl Feeder	Tray Feeder		
	Tape (8mm)	Radial/Axial	Multi Stick (Vibration)	Stack Stick (Vibration)	Stack Stick (None Vibration)	Single/ 2-Staged/ 3-Staged	Multi	Side	Single
FRONT	60	10	6	8	7	2	-	-	2
REAR	60	10	6	8	7	2	1	1	2