

Flexible High Speed Modular Mounter

EXCEN FLEX

Achieves the World's Highest Productivity and Work Flexibility

EXCEN FLEX, a dual gantry modular machine using a 12 nozzle flying camera, achieves the world's highest placement speed of 82,000 CPH. In addition, it provides a One Machine Solution since it can be used for parts from 0402(01005 inch) to 140 x 55mm in size, as well as PCBs up to 900x580mm in size. EXCEN FLEX provides various production modes including mixed production of different types of PCBs, independent production at the front and rear, etc., by using a flexible conveyor system.

EXCEN FLEX maximizes actual productivity and work convenience by using a SMART feeder which is the world's first Auto Splicing and Auto Loading Feeder.



- 82,000 CPH(Optimum)
- Ultra Slim Design with a Total Length of 1.29m
- Super-high Speed Flying Vision Head
- Side-view Vision System(SVS)
- Parts Size : Min. 0402(01005 inch)
~ Max. 140 x 55mm(H28mm)
- PCB Size : Max. 900mm x 580mm
- Flexible Conveyor System
 - Mix production of different types of PCBs/
Independent production at the front and rear
- SMART Feeder
 - World's first Auto Splicing and Auto Loading

Flexible High Speed Modular Mounter

EXCEN FLEX



HIGH PERFORMANCE

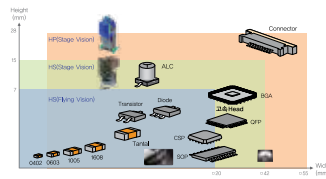
Achieves the highest placement speed of 82,000 CPH by using a flying vision head with 12 nozzles

- Minimizes the head motion path by using a flying camera
- Achieves high speed driving by using a linear motor on the X-Y gantry and head



Able to produce 0402(01005 inch) ~ 140 x 55mm parts using 2 types of modular heads(HP and HS), thus allowing various types of products to be produced

- HS Head(Flying Vision/Stage Vision) 0402(01005 inch) ~ ϕ 42mm
- HP Head(Stage Vision) 0603(0201 inch) ~ 140x55mm
- HP head allows force control and gripper operation

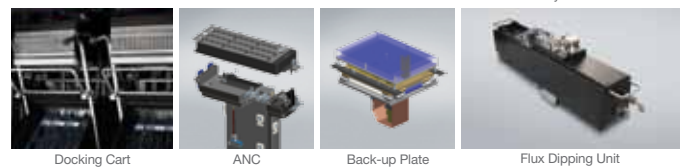
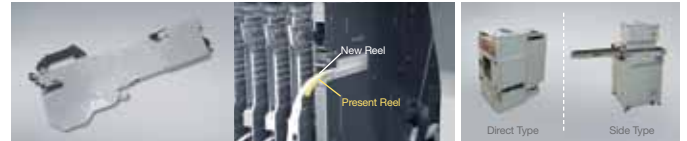


EASY OPERATION

High speed tape feeder & SMART Feeder • Auto Splicing, Auto Loading
One-touch Change • Docking Cart, ANC, Back-up Plate

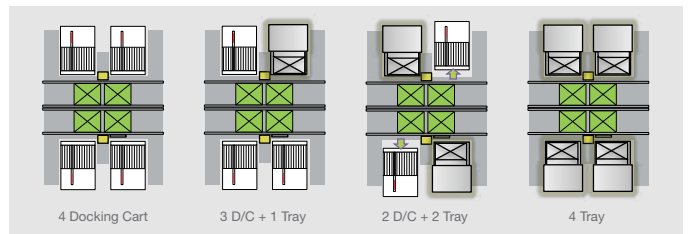
Supports direct/Side tray feeders • Maximizes the use of feeders and minimizes the feeder slot loss

POP support • Supports the flux dipping unit for accurate placing POP



VARIOUS CONFIGURATION

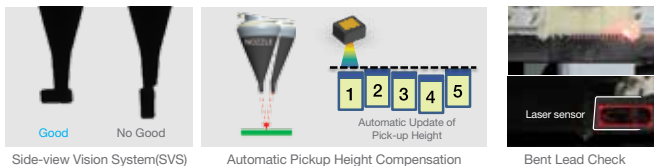
Supports up to 4 tray feeders at the front and rear
Supports two types of heads for various parts



HIGH RELIABILITY

Provides the Side-view Vision System (SVS), a function to inspect part status of before and after placement, as well as various functions that can improve placement accuracy and prevent defects

- Side-view Vision System(SVS)
- Automatically corrects the offset of the nozzle pickup position
- Automatically compensates for part pickup height using a height sensor
- Bent Lead Check



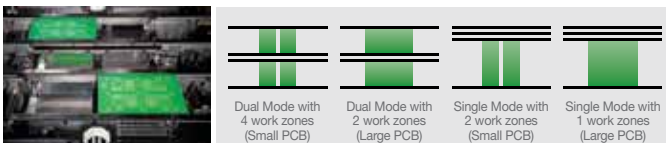
FLEXIBLE PRODUCTION

Able to produce PCBs up to 900mm x 580mm in size by splitting work zone into two (Based on single lane)

- Provides various conveyor modes according to the PCB size
- Two work zones to minimize PCB transfer time.

Allows various working modes by using a dual lane conveyor and dual head

- Mixed production of different types of PCBs, independent production or the front and rear, non-stop PCB type change



Specifications

Model		EXCEN FLEX	
Head		High Speed Head(HS12)	High Precision Head(HP03)
Number of Spindles		12 Spindles x 2 Gantry	3 Spindles x 2 Gantry
Placement Speed		82,000 CPH(Optimum)	11,000 CPH(Optimum)
Placement Accuracy	Chip/QFP	$\pm 40\mu\text{m}@Cpk1.0/\text{Chip}$	$\pm 30\mu\text{m}@Cpk1.0/QFP$
	Chip/QFP	$\pm 30\mu\text{m}@Cpk1.0/QFP$	$\pm 30\mu\text{m}@Cpk1.0/QFP$
Component Range	Standard	0402(01005 inch) ~ ϕ 20mm(H7mm) Flying Vision	0603(0201 inch) ~ 140 x 55mm(H28mm) Stage Vision
	Option	0402(01005 inch) ~ ϕ 42mm(H15mm) Flying + Stage Vision	-
PCB Dimension (LxW)	Single Mode	50 x 40 ~ 530 x 580mm, Max. 900 x 580mm(Split Placing)	
	Dual Mode	50 x 40 ~ 530 x 310mm, Max. 900 x 310mm(Split Placing)	
PCB Thickness		0.3 ~ 4.0mm	
Feeder Capacity(8mm)		120EA(30EA x 4, Docking Cart)	
Utility	Power	AC200/220/380/400/420/480V(50/60Hz, 3Phase) Max. 4.0KVA	
	Air Consumption	0.5 ~ 0.7MPa(5 ~ 7kgf/cm ²) 100N ℓ /min	
Mass		Approx. 2,290kg(Cart, Tray Not included)	
External Dimension(mm)		1,290(L) x 2,235(D) x 1,447(H) (Cart to Cart)	
		1,290(L) x 2,375(D) x 1,447(H) (Tray to Tray)	

SAMSUNG

SAMSUNG TECHWIN

MMS Division SMT Overseas Business Dept.

Main Office

Samsungtechwin R&D Center, 701, Sampyeong-dong, Bundang-gu, Sungnam-Si, Gyeonggi-Do, 463-400, Korea

• Tel : +82-70-7147-5459, 6309 Fax : +82-31-8018-3723

• http : // www.samsung-smc.com

• The dimensions and product specifications in this catalog may be changed without prior notice.