Fresh Energy in Your Business

SAMSUNG

Advanced Flexible Mounter **SN482**

As a flexible component placer for odd-shaped parts is reinforced at SM482 based on the platform of SM471. With a head with one gantry and 6 spindles, SM481 can be used up to \Box 55mm IC parts. It supports a polygon recognition algorithm to provide an optimum solution for odd-shaped parts. SM481 improved actual productivity and placement quality by using high speed and high precision electrically driven feeders. Furthermore, since it is designed to handle both electrical feeder & pneumatic feeder, it maximizes the customer's operational convenience.



Advanced Flexible Mounter





Achieves a High Speed Part Placement Speed of 28,000 CPH

Achieves the highest placement speed among the same class chip placers by using a flying head mechanism with 6 spindles as well as optimized pickup/placement motion

Since it allows part recognition without stopping after part pickup by using its original On-the-Fly image recognition technology, SM482 model maximizes the part placement speed by minimizing the time to move between the pickup position and placement position and by reducing the recognition time to almost zero.





Placement accuracy correction system

Chip $\pm 50 \mu m$ (Cpk ≥ 1.0) The newly upgraded placement accuracy calibration system automatically checks and corrects the pickup point offset, head offset, C/V offset, etc. to allow reliable part placement.



Absolute Accuracy of+50um(Cok 1)

Reinforced Applicability to Parts and PCBs

- Applicable to 0603(0201 inch)~ D55mm(H15mm), ~L75mm Connector, and BGA/CSP parts by default (0402(01005 inch) Option)
- Applicable to Max. 740(L) x 460(W) PCBs for long boards applied to LEDs and displays
- Polygon recognition function
 - The polygon recognition function extracts the shape of a part to recognize the entire part shape. Therefore, it provides the optimized solution to irregular and odd-shaped parts.



Uses a New Vacuum System

 Achieves stabilized part pickup and minimized air consumption by using a vacuum pump

* Air consumption is less than 50NI/min when using a vacuum pump.



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-smt.com
- The dimensions and product specifications in this catalog may bechanged without prior notice.

Electrically Driven High Speed and High Precision Feeder

Electrically driven SM feeder

- Allows integrated use of 0603/2P/4P • With a function to automatically align the
- pickup position between feeders to improve the simultaneous pickup rate.
- Able to set various part supply speeds to improve the stability of part supply.
- Automatic feeding pitch recognition function
- *Compatible with SM pneumatic feeders

SM smart feeder

• The world's first feeder with Auto Splicing and Auto Loading functions

*Compatible with SM pneumatic feeders

- Maximizes work convenience and actual productivity by automating the splicing process for part reel replacement normally performed by hand. · Applicable to reels with a small quantity of parts



New Reel

Specifications

Model			SM482
Alignment			Flying Vision + Stage Vision
Number of Spindles			6 Spindles x 1 Gantry
Placement Speed		beed	28,000 CPH(Optimum)
Placement Accuracy	Chip/QFP		±50μm@μ+3σ/Chip, ±30μm@μ+3σ/QFP (Based on the standard chips)
Component Range	Flying Vision	FOV 16 (Option)	0402(01005 inch) ~ = 14mm IC, Connector(Lead Pitch 0.4mm) * BGA, CSP(Ball Pitch 0.65mm)
		FOV 25 (Standard)	0603(0201 inch) ~ ¤ 22mm IC, Connector(Lead Pitch 0.5mm) ~ ¤ 17mm BGA, CSP(Ball Pitch 0.75mm)
	Stage Vision	FOV 35 (Option)	~ ¤ 32mm IC, Connector(Lead Pitch 0.3mm) * BGA, CSP(Ball Pitch 0.5mm) ~ ¤ 55mm(MFOV)
		FOV 45 (Standard)	~ ¤ 42mm IC, Connector(Lead Pitch 0.4mm) * BGA, CSP(Ball Pitch 1.0mm) ~ ¤ 55mm(MFOV), ~ ¤ 75mm Connector
	Max. Height		15mm
Board Dimension (mm)	Minimum		50(L) × 40(W)
	Maximum		460(L) × 400(W) 510(L) × 460(W)(Option) 610(L) × 510(W)(Option) 740(L) × 460(W)(Option)
	PCB Thickness		0.38 ~ 4.2
Feeder Capacity		acity	120ea / 112ea(Docking Cart)
Utility	Power		AC 200 / 208 / 220 / 240 / 380 / 415 V (50/60Hz, 3Phase) Max. 4.7kVA
	Air Consumption		0.5 ~ 0.7MPa(5 ~ 7kgf/cm²) 180Nl/min, 50Nl/min(Vacuum Pump)
Mass			Approx. 1,600kg
External Dimension(mm)			1,650(L) x 1,680(D) x 1,530(H)