SCM1 Series

Special Component Mounter

SCM1 Series

Specifications

Model Name		SCM1-D	SCM1-DP	SCM1-J
Number of Spindles/ Head		2Spindles×1Gantry 1Spindle×1Gantry(Option)	2 Spindles×1Gantry (1 Spindle + 1 Dispenser)	2Spindles×1Gantry
Alignment		1 Stage Vision	1 Stage Vision	2 Stage Visions
PCB Transfer		Dual Lane	Dual Lane + Inverter (Option)	Single Lane
Placement Rate		2,400CPH (1Spindle, Hanwha Techwin's Standard) 3,000CPH (2Spindle, Hanwha Techwin's Standard)	2,400CPH (1608, Hanwha Techwin's Standard)	2,000CPH (Hanwha Techwin's Standard)
Placement Accuracy		±50um @ Cpk1.0 (1005)	±50um @ Cpk1.0 (1005)	±100um @ Cpk1.0 (Chip) ±60um @ Cpk1.0 (IC)
Component Range	Stage Vision (FOV45)	1005 ~□45mm	1005 ~ □45mm	1005 ~ □45mm
	Max. Height	H15mm	H15mm	H42mm
PCB (L×W mm)	Min.	50×50mm	50×50mm	50×50mm
	Max.	295×250mm 250×250mm (Option)	240×250mm	295×250mm
	Thickness	0.38 ~ 4.2mm	0.38 ~ 4.2mm	0.38 ~ 4.2mm
Feeder Capacity		32ea(16 * Front/Rear Sides)	16ea (Front)	16ea (Front)
Feeder Type		Tape Feeder	Tape Feeder, Label Feeder	Tape Feeder, Tray Feeder, Label Feeder , Multi-Stack Stick Feeder, etc.
Utility	Power	AC 220V(50/60Hz, 1Phase) Max. 2.0kVA	AC 220V(50/60Hz, 1Phase) Max. 2.0kVA	AC 220V(50/60Hz, 1Phase) Max. 2.0kVA
	Air Consumption	0.5~0.7MPa(5.1~7.1kgf/㎠) 150Nℓ/min	0.5~0.7MPa(5.1~7.1kgf/㎠) 150Nℓ/min	0.5~0.7MPa(5.1~7.1kgf/㎠) 150Nℓ/min
Weight		Approx. 950kg	Approx. 920kg	Approx. 750kg
External Dimension (L×D×H mm)		680(865)×1,870×1,480 ( ) When including an extended conveyor	680(977)×1,870×1,480 ( ) When an inverter is installed	680(865)×1,850×1,540 ( ) When including an extended conveyor

Hanwha Techwin/Machinery Solution

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※ Please note that specifications and product information in this catalog are subject to change without notice.

Hanwha Techwin

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Hanwha Techwin

Special Component Mounter

SCM1 Series

Provides convenience and a solution optimized for various special processes including the placement of odd-shaped components and shield cans, bond dispensing, etc.

SCM1-J

- Super slim, multi-functional odd-shaped component placer (width: 680mm)
- Improved handling capability of odd-shaped components
  - 1005~ □ 45mm, □ 80x60mm(MFOV), H42mm
  - Laser lighting for the recognition of insert components
  - Back lighting (option)
- Available for various component supplying devices
  - Tape Feeder, Tray Feeder, Label Feeder, Multi-Stack Stick Feeder, etc.
- Available for special processes
  - Placement of insert components and shield cans/ Bond dispensing/ Applicable to special processes such as PiP and PoP/Others.

Small, Multi-Functional Odd-shaped Component Placer

SCM1-J

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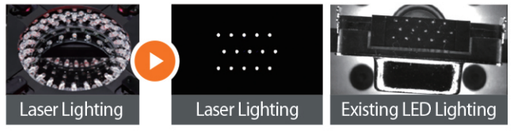
Provides an optimum solution for the placement of large electric components and insert components

Placement Force Control Function

Applies the 3N~40N Z-axis force control function for the placement of general SMD components as well as various insert components.

Provides various lighting options

Increased capability of the Pin recognition of an insert component by providing laser lighting.



Provides Gripper Nozzle

Available for large odd-shaped components with height up to 42mm.

Provides Various Component Supply Devices


Multi-Stack Stick Feeder


Dedicated Tray Feeder

Odd-shaped Component Placer for Shield Cans

SCM1-D

※ Please contact us for single conveyor specifications (SCM1-S)

- Super slim, odd-shaped dedicated component placer (width: 680mm)
- Improved handling capability of odd-shaped components
  - ~ □ 45mm, H15mm
  - Recognition of components with back lighting
  - Shield can placement inspection
- Capable for dual lane mixed production
  - Same PCB (Top/Bottom)
- Mixed use of Electric feeders and pneumatic feeders
- Built-in Tape Cutter (Option)

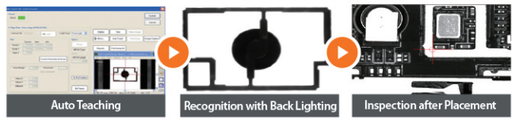
Improved handling capability of shield cans

Recognition with Back Lighting

Applies back lighting in the head to remove defused reflection and background noise due to component material, increasing the vision recognition rate.

Placement Inspection Function

It is possible to prevent the occurrence of defective shield cans in advance by inspecting a shield can after placing it.



Applies a recognition algorithm dedicated to shield cans

Provides automatic component teaching function, editing screen dedicated to shield cans, etc.

Mixed Use of Electric Feeder and Pneumatic Feeder


Splicing Detection Sensor


Joint Tape Dedicated to Splicing Detection

Odd-shaped component placer for bond dispensing

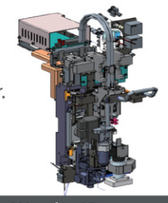
SCM1-DP

- Super slim, odd-shaped dedicated component placer (width: 680mm)
- Provides a dispenser head
  - 2Spindles(1Nozzle+1Dispenser)×1G
- Inverter placement (option)
  - Simultaneous placement components at the top/bottom surfaces with one machine
- Label Feeder(Option)
- Mixed Use of Electric Feeder and Pneumatic Feeder
- Built-in Tape Cutter (Option)

Increased Capability for Dispensing

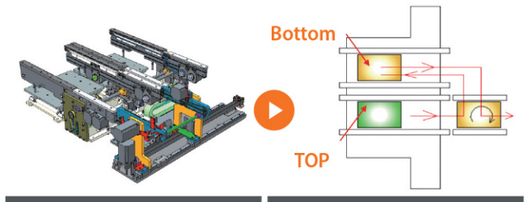
Provides a dispenser head

Provides a head equipped with one nozzle and one dispenser.


1Nozzle+1Dispenser

Simultaneous Placement of PCBs (Top/Bottom)

Equipped with an inverter, one machine can place components at the top and bottom surfaces simultaneously.



Inverter Module
PCB Board Flow

Increased Convenience of Use


Built-in Tape Cutter (Option)


Applies SM400 Common MMI


Dedicated Job Change Screen