

DECAN S2 - Hanwha Advanced Chip Shooter

I. Description

Hanwha DECAN S2 is a pick and place machine which can handle a wide range of components and maximize productivity with various PCB transfer systems.

1. Secures the applicability to components and conveyor flexibility.
2. Reduces production time by optimizing the motion sequence.
3. Reinforces odd-shape component recognition by applying 3D lighting system.

II. Equipment Features

1. Flexible Production - Highest Applicability of Medium Speed Chip Mounters to PCBs

510 x 510mm (standard) / 1500 x 460mm (optional) - Possible to produce PCBs of up to 1,500mm(L) x 460mm(W) in size.

2. High Reliability - Places Microchips Stably

Performs automatic calibration during production to keep placement accuracy constant Maintains pickup and placement quality with the Nozzle Maintenance Unit.

3. Productivity - Highest Performance among Chip Mounters of the Same Class

Increases the component recognition range using a high-pixel camera Increases simultaneous pickup rate and odd-shape component placement speed.

4. Easy Operation - Increases Operational Convenience

Teaches a large odd-shape component easily and reduces teaching time Equipped with the function to unify the lighting level of chip components and maintains the pickup coordinates of common feeders.



III. Technical Parameters

Model	DECAN S2	DECAN F2	DECAN L2
Of Spindles	2 Gantry x 10 Spindles/Head	2 Gantry x 10 Spindles/Head	2 Gantry x 6 Spindles/Head
Placement Speed	92,000 CPH (Optimum)	80,000 CPH (Optimum)	56,000CPH(Flying Vision,Optimum) -0.14 seconds/component (Plying Vision,SOIC 0.5P) -0.55 seconds/component (Upward Vision,QFP100 0.5P)
Vision	Flying Vision	Flying Vision Stage Vision(Optional)	
Placement Accuracy	±28μm Cpk≥1.0(03015 chip) ±25μm Cpkz1.0(IC)	±40μm Cpk≥1.0 (0402 (01005 inch) chip) ±30μm Cpk≥1.0 (IC,Stage Vision)	
Component Range	03015~ Max.55mm(H15mm)	0402(01005 inch)~ Max.55mm(H15mm)	0402(01005 inch)~ Max.55mm,L75mm(H25mm)

PCB Size	50x40~510x460mm(Standard) ~610x460mm(Option),~740x460mm(Option) ~810x460mm(Option),~1,200x460mm(Option)
Conveyor Configurations	Standard:1-2-1 Option:1-2-2/2-2-2/2-2-1/1-1-1 Factory Option:Single Conveyor (Jedec Tray 2ea)
Feeder Capacity	120ea(8mm)
Power	Voltage:3 phase AC200/208/220/240/380V415V±10% Frequency:50/60Hz Power Consumption:Max.5.0kVA
Air Consumption	50NI/min
Weight	About 1,800kg
External Dimensions (mm)	1,430(L)x1,740(D)x1,485(H)

*Under optimum condition of specified by HANWHA TECHIMIN.