



# OFFP: Odd Form Placement

“Customizable” automatic component placement machine for odd shaped components.

## Features:

- High precision Automatic component placement for odd shaped components
- Can be configured to Accepts a large range of component feeders
- Easily configured for future requirements
- Flexible and accurate pick up (gripping / vacuum)



The machine utilizes a 4 axis Scara robot to perform the critical pick and place operation, with optional vision assistance. The machine is divided into four modules:

### Component feeder

Can be configured to pick up from a wide range of feeding devices (tubes, vibratory bowls, waffle pack and tape reel)

E.g. 3in1 Connectors supplied in a magazine of 22 tubes, each tube containing 42 connectors

### Board conveyor

3 stage conveyor system with PCB clamping station, manual width adjustment. Maximum height of components: Top side: 100 mm, Bottom side: 20 mm, edge clearance min 2.5 mm

### Actuator

4 axis (Scara) robot fitted with quick changing placement head, either gripper or vacuum

### Off loader

Finished panels can be conveyed out or off load into trays/ magazines.

<b>Machine general specifications</b>	
PCB size (mm)	330 (L) x 250 (D)
Component size	Configurable (min 2mm, max 75mm)
Number of axis.	4 axis (Scara) X, Y, Z and C (rotating).
Positional Accuracy / Speed	0.02mm / Positional speed up to 1000mm per sec.
Typical Placement speed	1.7 seconds depending on the final placement process
Interfacing	SMEMA electrical interface
Conveyor System:	Manually adjustable with variable belt speed.
Machine External Dim.	1.2m (L) x 1.2m (D) x 1.7m (H)
Options	Pre / Post placement Panel flip station. Adjustable Gripper head for placement



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