Odd Shape Placement Cell S

For demanding odd-shaped component placement.

The JOT Odd-Shape Assembly Cell solves a critical electronics manufacturing challenge. Today products like TVs and computers are being designed with an increasing number of connections that are out of the placement range of traditional SMT machines. JOT recognized this need and developed the Odd-Shape Placement Cell, a more adaptable machine for more complex production line demands.

Adaptability is a trademark benefit of all JOT machines and the Odd-Shape Placement Cell earns the distinction with the ability to automate over 20 different processes. The Odd-Shape Placement Cell has already successfully assembled well over 100 different component types, both passive and active. It also boasts close to 80% platform reusability, which includes the feeders, making it the most cost-efficient solution available today.

The ability to handle all components regardless of their shape. Best-in-class accuracy and reliability in the most demanding production conditions. And an expected product lifetime of over 25 years. The Odd-Shape Placement Cell proves that no matter how specialized the assembly process, no matter how unique the production challenge, JOT always finds a solution.

FAST AND PRECISE ODD-SHAPE ASSEMBLY.

The JOT Odd-Shape Placement Cell offers unrivalled accuracy, speed and reliability in demanding production conditions.

Odd Shape Placement Cell S ARODS-2198

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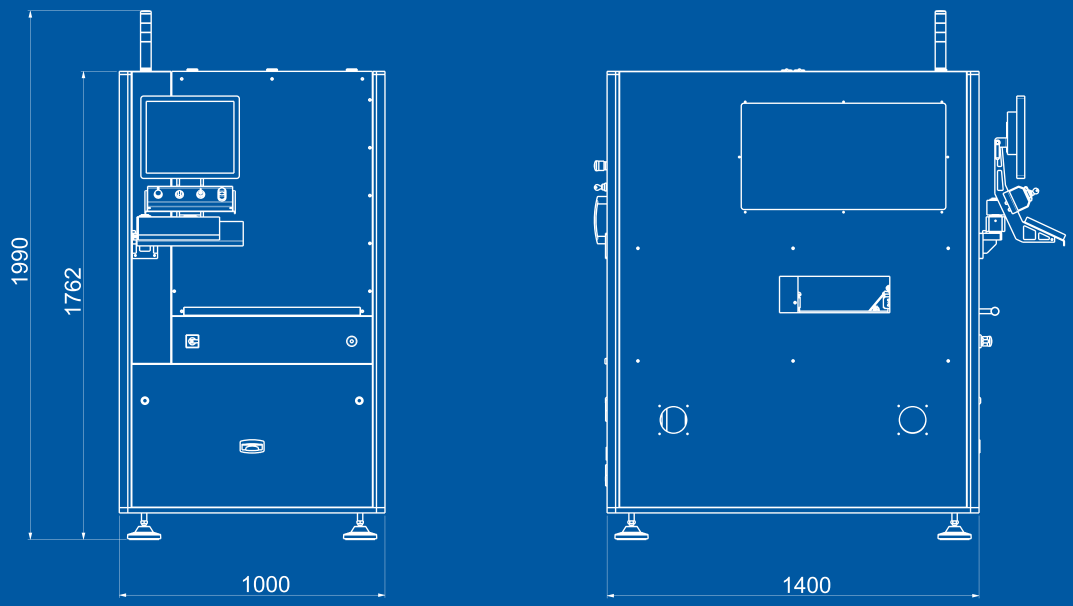
DESCRIPTION

NO COMPONENT IS TOO ODD FOR JOT.

Assembles different-shaped components that fall outside of the placement range of standard SMT machines. Best-in-class accuracy and reliability. Boost productivity with parallel feeding of up to 5 different components. Easily expandable to automate over 20 different processes. Built tough for demanding, rapidly moving production lines. Extremely cost-effective with close to 80% platform reusability. Minimal footprint design.

BLUEPRINT



KEY FEATURES

Handle all components, regardless of shape	Automate 20+ different processes	25+ year expected product lifetime
Assemble over 100 different component types	Close to 80% platform reusability	1.4 m² minimal footprint

Machine name and code:

MACHINE IDENTIFICATION

Odd Shape Placement Cell S

ARODS-2198

WIDTH 1000 mm | 39.4"

PRODUCT SPECIFICATION

Maximum board/pallet dimensions (W x L):

- With active clinching: 320 mm x 380 mm (12.6" x 15")
- With passive clinching: 320 mm x 470 mm (12.6"x 18.5")

Maximum components height:

- On top: 50 mm (2")
- On bottom: 30 mm (1.2")

Maximum board/pallet weight: 2 Kg

Minimum tracking edge per side: 3 mm (0.12")

DIMENSIONS

W 1000 mm (39.4")
H 1800 mm (70.9")
D 1400 mm (55.1")

FEATURES

	STANDARD	OPTIONAL
Grasps and Releases gripper	▪	
High precision mechanical tools	▪	
Automatic tool exchange system	▪	
Gripper presence detection	▪	
Insertion test	▪	
Component presence sensing	▪	
Integrated vacuum function	▪	
Graphical user interface	▪	
PC, mouse, keyboard, and touch screen monitor integrated to the frame	▪	
Segmented pass through conveyor	▪	
Conveyor speed adjustment	▪	
Conveyor width adjustment method	Handwheel	Automatic
Transport direction:	From left to right	From right to left
Pallet conveyor		▪
Bar code reader		▪
2D reader		▪
Machine vision		▪

ESD SAFE DESIGN

CE SAFE COMPLIANT

SMEMA ELECTRICAL INTERFACE

TECHNICAL CHARACTERISTIC

Machine dimensions (L x D x H):
1000 x 1400 x 1800 mm (39.4" x 55.1" x 70.9")

Robot Working Area (W x L):
500 x 700 mm (19.7" x 27.6")

Track height:
900-950 mm (35.4"-37.4")

Track speed:
12 m/min (39.4 fpm)

Fixed edge: front

Belts:
Flat belts with 3 mm carrying edge

Feeding capacity:
Up to 5 different feeders

Average insertion time:
2 s

Max. pressing force:
160 N

Active/passive clinching system

Servo driven manipulator

Configurations:

- In-line
- Pass-Back
- Stand alone

INSTALLATION REQUIREMENTS

Power supply: 230 VAC (1P+N+PE) - 50/60 Hz - 16 A

Air pressure: 0.6 MPa (6 bar)