

Cencorp 1500 OF

Odd-form placement

Through-hole component placement made easy and fast.

Whether your target is to increase productivity by moving hand mounted components to an automated platform or to ensure placement quality for bigger components the best choice is Cencorp 1500 OF.

Cencorp 1500OF represents the 3rd generation of our odd-form component placement machines. It is a reliable choice based on latest linear guides technology equipped with active clinching unit and huge feeder capacity as default.

Exchangeable feeders are available for axial, radial and tube feeders. All your existing PMJ or Cencorp feeders will naturally be compatible.

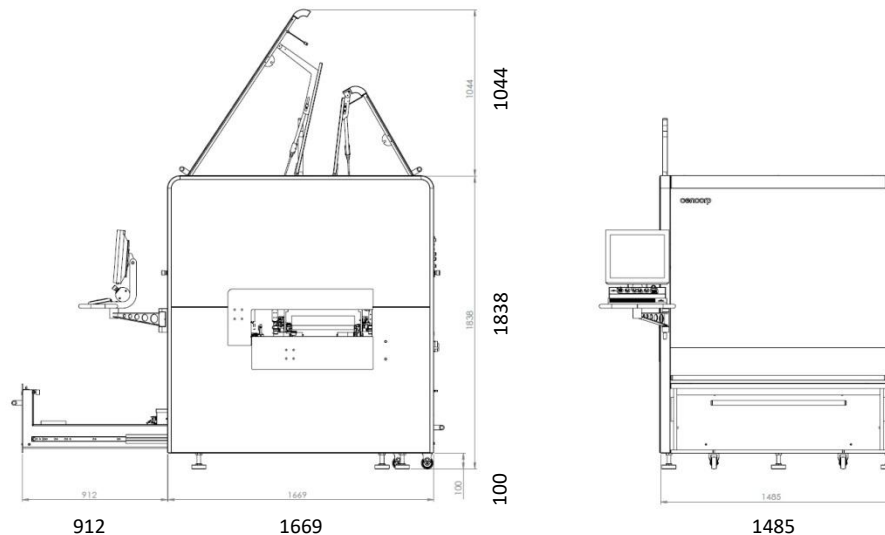
Equipped with extensive software options covering on-line CAD import, MES connectivity and traceability it meets the toughest quality demands in electronics industry today. Flexible machine configuration with dynamic programming features will cover your ever changing production needs for years to come.

When component placement quality matters the Cencorp 1500OF is a natural choice.



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Technical Data



Gantry Work Envelope:

X-travel: 1098 mm
 Y-travel: 1011 mm
 Z-travel: 180 mm
 W-travel: 360 degrees

Active Clincher Module

X-travel: 698 mm
 Y-travel: 750 mm
 Z-axis: 40 mm
 W-travel: 180 degrees
 Pitch of component leads 2.5–50 mm

Repeatability

X and Y axis: ± 0.02 mm at $cmk \leq 1,67$
 Z axis: ± 0.05 mm at $cmk \leq 1,67$
 W axis: ± 0.05 degrees at $cmk \leq 1,67$

Pick & Place Performance

Average placement speed: 1,9 s/component
 with a 400 mm pick&place cycle using radial components

Board Handling

Min. PCB size L x W: 55x55 mm
 Max. PCB size L x W: 580x400 mm

- Max PCB length with 3-segmented conveyor: 480mm
- Oversized PCB dimensions can be handled upon request

PCB transfer time: 2 ... 3 s (depending on running mode)
 Transfer protocol: SMEMA
 Transfer height: 900 $\pm$ 25 mm
 Both locking pin adjustable: Programmable
 Width adjustment: Programmable
 PCB conveyor type: Three segment

- Can be run as one segmented for long boards

Top clearance: 60 mm
 Bottom clearance: 40 mm
 Edge clearance top: 3 mm
 Edge clearance bottom: 5 mm
 Conveyor soft stop and start as default

Component Handling

Servo gripper 70 with automatic finger change, programmable pusher force, component presence and collision detection

- Gripper movement: 70 mm
- Maximum component dimensions: 100 x 50 mm
- Maximum component weight: 200 g
- Pusher force programmable (15%-100%)

Comp. teaching: Camera aided
 Comp. lead clincher: Standard
 Product change: Automatic
 Snap in comp. support: Optional
 Finger slots available: 11+2 (tools)
 Vacuum gripper: Optional
 Force sensing available as option for machines with active clinching unit

- Force measurement area: 50-290 N
- Resolution: 20 N

Comp. lead detect.: Optional

Feeder Space

Available feeder space: 1140 mm
 Feeder Ports: 24
 Up to 18 feeder locations at 60mm wide each
 Available Feeder Types
 Axial, radial, tube, tray, bowl, custom

Graphical User Interface

Operating system: Windows
 USB memory: Standard
 Touch screen: Standard

Network connection: Optional
 Dual Monitors: Optional
 Local language support

Machine Vision

2-camera CATS and Active vision: Standard
 Correction of PCB position
 Visual bad board detection
 Correction of component position: Standard

Software Options

CS, Cell Statistics
 CVS, Component Validation System
 Automatic Program Change Over
 CiS Program suite
 Off-line programming

Machine Dimensions

Width: 1498 mm
 Depth: 1799 mm
 Height: 1841 mm
 Weight: 2100 kg

Electrical Service Requirements

Power supply; 32A, 400 VAC 50Hz or 32A, 208 VAC 60HZ
 Power consumption: average 2 kW / phase

Pneumatics Service Requirements

Pressure: 5-7 bar
 $\pm 10\%$, dry clean air
 Approx. air consumption: 85 l/min

Environmental Requirements

Operating temperature: 10 ... 40°C
 Operating humidity (RH): 30% ... 85%