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 OF 1500.

Cencorp OF 1500 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.

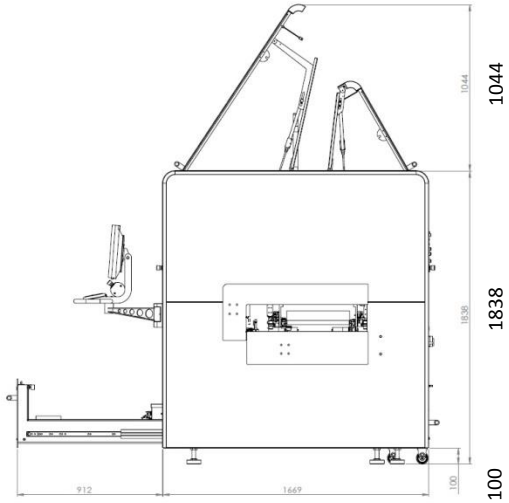
Equipped with extensive software options covering on-line CAD import, MES connectivity and traceability it meets the toughest quality demands in electronics industry today. Flexible machine configuration with dynamic programming features will cover your ever changing production needs for years to come.

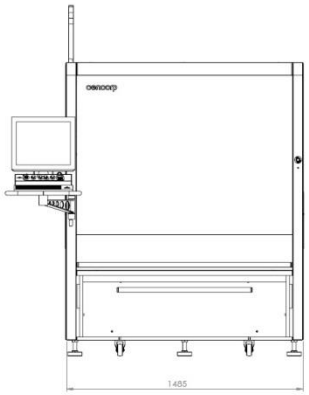
When component placement quality matters the Cencorp OF 1500 is a natural choice.

Cencorp Automation Ltd • Satamakatu 16, FI-24100 Salo, Finland • tel +358 40 717 0811, fax +358 2 551 1220 • www.cencorpautomation.com • VAT no. FI26385367

Cencorp 1500 OF

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 ≤ 1,67
Z axis: ±0.05 mm at cmk ≤ 1,67
W axis: ±0.05 degrees at cmk ≤ 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 ±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: Standard
Active vision, Dalsa: Optional
Correction of PCB position
Visual bad board detection
Correction of component position: Optional

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
±10%, dry clean air
Approx. air consumption: 85 l/min

Environmental Requirements

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

Cencorp Automation Ltd • Satamakatu 16, FI-24100 Salo, Finland • tel +358 40 717 0811, fax +358 2 551 1220 • www.cencorpautomation.com • VAT no. FI26385367