

Cencorp 1000 OF EVO

Odd-form

Placement Quality and Speed

An upgraded version of the popular Cencorp 1000 OF is now available. We have decided to upgrade the control system and user interface to meet the latest demands set by our customers.

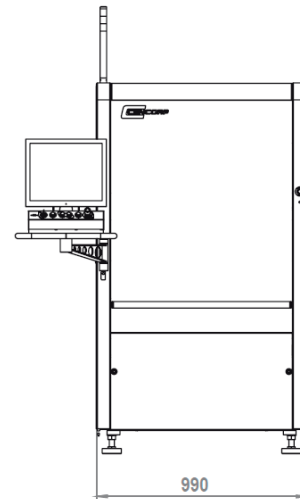
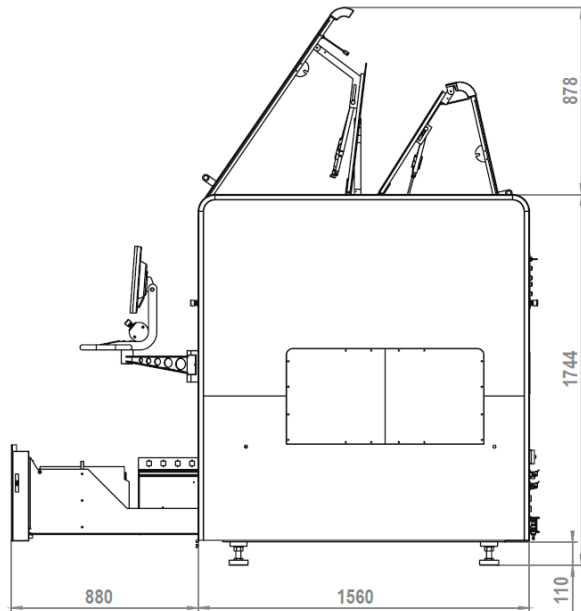
Cencorp 1000 OF EVO is a reliable choice equipped with active clinching unit and flexible feeder capacity as default whenever looking for more production capacity or replacing manual work processes

Cencorp 1000 OF EVO offers a full range of feeders to provide the highest flexibility and best price/performance ratio in odd-form component placement.

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.



Cencorp 1000 OF EVO Technical Data



Gantry Work Envelope

X-travel: 645 mm
 Y-travel: 940 mm
 Z-travel: 150 mm
 W-travel: 360 deg

Accuracy

Repeatability (x,y): ± 0.03 mm [3 s]
 Repeatability (W): $\pm 0.05^\circ$ [3 s]

Pick & Place Performance

max axis speed: 2000 mm/s
 max. acceleration: 15000 mm/s²

- Average placement speed: 1,8 s/component with a 400 mm pick&place cycle using radial components

Board Handling

Min. PCB size L x W: 70x70 mm

Max. PCB size L x W: 480x365 mm

- 480 mm only in long board mode, otherwise 380 mm
- Max PCB length with 3-segmented conveyor: 280 mm.

PCB transfer time: 2 ... 3 s (depending on running mode)

Transfer protocol: SMEMA

Transfer height: 900 \pm 25 mm

2nd Locking pin adj.: Programmable

Width adjustment: Programmable

PCB conveyor type: Three segment

- Can be run as one segmented for long boards

Max. PCB weight: 6 kg

Top clearance: 60 mm

Bottom clearance: 12 mm

Edge clearance top: 3 mm

Edge clearance bottom: 5 mm

Active Clincher Module

X-travel: 480 mm
 Y-travel: 365 mm
 W-travel: 180°
 Pitch of component leads 2.5 - 45 mm

Component Handling

Servo Gripper C with automatic finger change, pneumatic pusher, component presence and collision detection

- Gripper movement: 28 mm
 - Maximum component dimensions: 100 x 50 mm
 - Maximum component weight: 200 g
- Comp. teaching: Camera aided
 Comp. lead clincher
 Product change: Optional
 Snap in comp. support: Optional
 Finger exchange: Automatic
 Finger slots available: 8+2 (tools)
 Vacuum gripper: Optional as separate unit or integrated to servo gripper
 Snap force detect.: Optional
 Comp. lead detect.: Optional

Feeders

Available feeder space: 700 mm

Feeder Ports: 16

Up to 11 feeder locations at 60mm wide each

Available Feeder Types

Axial, radial, horizontal tube, angular tube, tray, bowl, custom

General

Graphical User Interface

Operating system: Windows

Motion controller Beckhoff

UPS standard

Touch screen standard

Network connection: Optional
 Dual Monitors: Optional
 Local language support

Machine Vision

2-camera teaching: Standard
 Active vision, Dalsa: Optional
 Correction of PCB position
 Visual bad board detection Optional
 Correction of component position Optional (require additional light)

Software Options

Cell Statistics
 Component Validation System
 Traceability
 Automatic CAD download
 Automatic program change
 Off-Line programming
 Barcode support: 1D or 2D

Machine Dimensions

Width: 992 mm
 Depth: 1560 mm
 Height: 1744 mm
 Weight: 1600 kg

Electrical Service Requirements

Voltage (EU/USA): 400/208 VAC 10%
 Frequency (EU/USA): 50/60 Hz
 Branch circuit size: 16 A
 Average power cons.: 2 kVA

Pneumatics Service Requirements

Pressure: 5-7 bar \pm 10%, dry clean air
 Approx. air consumption: 100 l/min

Environmental Requirements

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