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.

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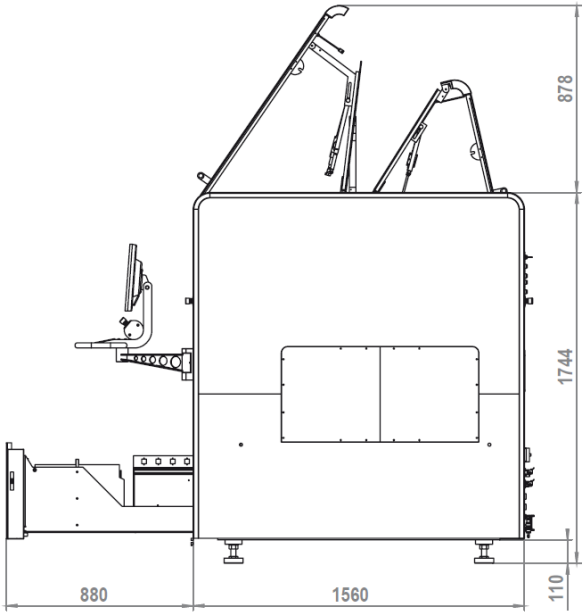
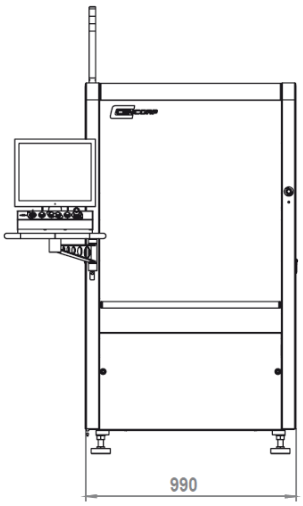
Cencorp 1000 OF EVO Technical Data





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): ±0.05º [3 s]

Pick & Place Performance
max axis speed: 2000 mm/s
max. acceleration: 15000 mm/s2
Max. CPH1*: 2300
Max. CPH2**: 2600

Board Handling
Min. PCB size L x W: 50x50 mm
Max. PCB size L x W: 500***x365 mm
PCB transfer time: 2 ... 3 s (depending on running mode)
Transfer protocol: SMEMA
Transfer height: 900 ±25 mm
2nd Locking pin adj.: Programmable
Width adjustment: Programmable
PCB conveyor type****: Three segment
Max. PCB weight: 6.1kg
Top clearance: 60 mm
Bottom clearance: 12 mm
Edge clearance top: 3 mm
Edge clearance bottom: 5 mm

Active Clincher Module
X-travel: 500 mm
Y-travel: 365 mm
W-travel: 180º
Pitch of component leads 2.5 - 45 mm

Component Handling
Component pick: Servo Gripper
Comp. detection: Programmable
Comp. teaching: Camera aided
Comp. lead clincher
Comp. pusher: HIGH or LOW force
Product change: Optional
Snap in comp. support: Optional
Max. comp. size*****: 100 x 100mm (larger components consult local sales)
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: 720 mm
Feeder Ports: 15
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 7
Motion controller Beckhoff
UPS standard
Touch screen
Network connection: Optional
Dual Monitors: Optional

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 ±10%, dry clean air
Approx. air consumption: 100 l/min
Environmental Requirements
Operating temperature: 10 □ 30 °C
Operating humidity (RH): 30% □ 85%

** Including clinching using radial components and PCB, size 200x200 mm*
*** Connector without clinching and PCB, size 200x200 mm*
**** 500 mm only in Long board mode, otherwise 380 mm*
***** Optional 3 segment conveyor with 2 buffers reduces max. PCB length to 280 mm*
****** Max. component size depends on shape and component feeding ability, Consult the sales*

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