Cencorp 1000 OF EVO

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): ±0.05º [3 s]

Pick & Place Performance
- Max axis speed: 2000 mm/s
- Max. acceleration: 15000 mm/s²
- Average placement speed: 1.8 s/component

Board Handling
- Min. PCB size L x W: 70 x 70 mm
- Max. PCB size L x W: 480 x 365 mm
- Max. PCB length with 3-segmented conveyor: 280 mm.
- PCB transfer time: 2 ... 3 s (depending on running mode)
- Transfer protocol: SMEMA

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

Feeder
- Available feeder space: 700 mm
- Feeder Ports: 16
- Up to 11 feeder locations at 60mm wide each

General
- Graphical User Interface
- Operating system: Windows
- Motion controller Beckhoff
- UPS standard
- Touch screen standard

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%

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