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.

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## Technical Data

### Cencorp 1500 OF

#### 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: 480 mm
  - 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

#### 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

#### 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

#### 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%

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- Operating system: Windows
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- 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: Optional
- 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

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