Cencorp 850 OF

Odd-form

Designed for mass production environments

The completely new Cencorp 850 OF is now available. Designed to remove manual labor from mass production lines with through hole component placement, this machine brings you excellent return of investment.

Cencorp 850 OF builds on the long tradition of highly reliable odd-form machines from Cencorp. Equipped with a fast and flexible pick and place robot and the highly appreciated user interface of the Cencorp odd form cells this new small platform will be ideal for automation also in low cost countries.

The machine is capable of holding up to 8 feeders of all standard and custom feedertypes offered by Cencorp. Panels are supported from underneath to ensure a high quality process. Component clinching can be done with product specific support fixtures under the board.

Equipped with extensive software options covering on-line CAD import, MES connectivity and traceability it meets the toughest quality demands in electronics industry today.

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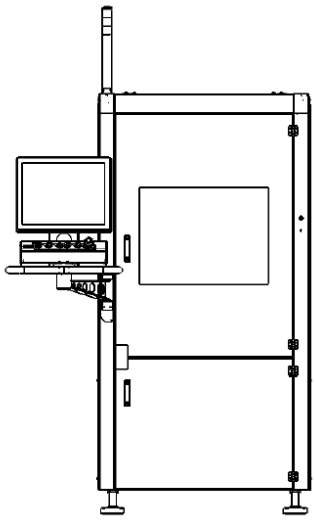
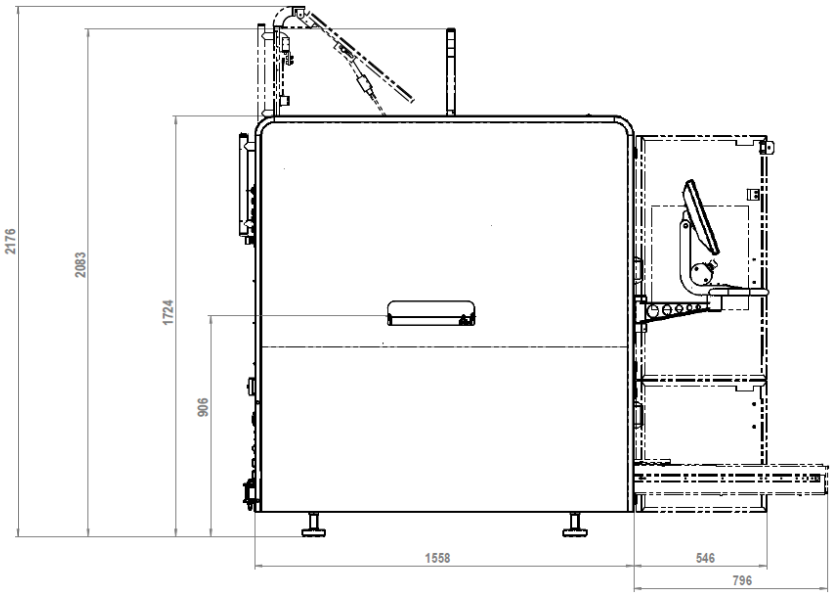
Technical Data





Gantry Work Envelope
X-travel: 500 mm
Y-travel: 820 mm
Z-travel: 80 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: 1500 mm/s
max. acceleration: 15000 mm/s2

- Average placement speed: 1,4 s/component with a 300 mm pick&place cycle using tube components

Board Handling
Min. PCB size L x W: 75x75 mm
Max. PCB size L x W: 400x350 mm
PCB transfer time: 3 s
Transfer protocol: SMEMA
Transfer height: 900 ±25 mm
Width adjustment: Programmable
PCB conveyor type: One segment
Max. PCB weight: 4 kg
Top clearance: 40 mm
Bottom clearance: 20 mm
Edge clearance top: 3 mm
Edge clearance bottom: 5 mm

Board Support Module
Includes one universal support plate with magnetic support pins

- Automatic pin configuration available as option

Product specific support plates with clinching features available upon request

Component Handling
Servo Gripper 20 with automatic finger change, pneumatic pusher, component presence and collision detection

- Gripper movement: 22 mm
- Maximum component dimensions: 60 x 60 x 40 mm
- Maximum component weight: 100 g

Comp. teaching: Camera aided
Finger exchange: Automatic
Finger slots available: 3+1 (tools)

Feeders
Available feeder space: 500 mm
Feeder Ports: 8
Up to 8 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 active vision: Standard
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
Off-Line programming
Barcode support: 1D or 2D

Machine Dimensions
Width: 865 mm
Depth: 1558 mm
Height: 1724 mm
Weight: 1500 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/phase

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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