Cencorp Raptor

Odd-form

Designed for mass production environments

The completely new Cencorp Raptor is a true high volume machine. Designed to place small through hole components with high speed gives you excellent return of investment.

The Cencorp Raptor forms a new type of oddform machine in the well known Cencorp product portfolio. Equipped with a fast dual head pick and place robot this machine will be an ideal work horse for the mass production lines.

The machine is capable of holding up to 6 feeders of all standard and custom feeder types offered by Cencorp except tube feeders. Panels are supported from underneath to ensure a high quality process. Radial components can be preformed in the feeders to hold them in position in the panel without clinching.

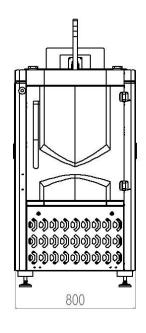
With a maximum placement capacity of up to 5100 cph this machine sets a new standard in the through hole placement market.

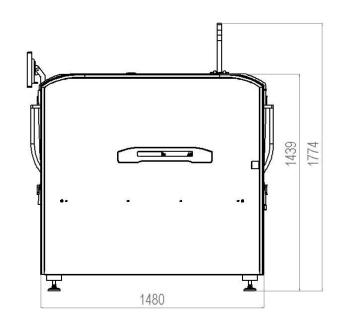




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Technical Data





Graphical Touch Screen User Interface Operating system: Motion controller: Omron Energy requirements: 230 VAC / 50 Hz Branch circuit size: 16 A 1,5 kVA Power consumption:

6 bar ±10%, dry clean air Compressed Air:

Air consumption: 100l/min

CE safety compliant

Board Support

Manually changeable product specific support plate with vacuum nozzles (No clinching)

Available feeder space: 480 mm Feeder Ports:

Available Feeder Types: AR (axial to radial), Axial,

Board Handling

PCB transfer time: 4,4 sec (depends on the

Transport height: 900 ± 20 mm Transfer protocol: SMEMA Adjustable Transfer speed: Width adjustment: Manually Fixed rail: Front or rear

PCB support: Passive with vacuum table PCB conveyor type: Two segment

L > R Transport direction: Pass through conveyor: Programmable Top clearance: 40 mm Bottom clearance: 35 mm Edge clearance top: 6 mm Edge clearance bottom: 4 mm Conveyor soft stop and start as default

PCB specification

PCB Width: 50 - 300 mm PCB Length: 50 - 310 mm

PCB Ratio: 0.8 (length ≥ 0.8 x width)

PCB Thickness: 0,8 - 3,2 mm PCB Weight: max 1,0 kg

Feeders

Radial, Tray, Bowl, Jumper

and Tape feeders

Component Handling

Dual Servo Gripper with automatic finger change

and pneumatic pusher

Gripper movement: 18 mm Maximum component height: 30 mm Finger exchange: Automatic Component detection: Automatic Collision detection: Automatic Comp. teaching: Camera aided Comp. pusher: Manually exchangeable 6

Finger slots:

Pick & Place Performance

Max axis speed: 2500 mm/s 25000 mm/s² Max acceleration: 5000 CPH Capacity: Cycle time / component: 0.62 - 1.2 secRepeatability (X,Y): ± 0.01 mm Repeatability (W): ± 0,01°

Machine Dimensions

800 mm 1440 mm Height: Weight: 800 kg

Robot working area

Y-travel: 956 mm X-travel: 389 mm Z-travel: 70 mm W-travel: 285 deg

Environmental Requirements

Operating temperature: 10 ... 40 °C Operating humidity (RH): 30% ... 85%

Machine Options

Transport direction: Transport height: Connectivity to customer production system

Pneumatic gripper Vacuum gripper 2-camera Active Vision:

- Correction of PCB position
- Correction of component position

Feeder Options

Radial feeder component lead forming, which ensures that components stay stable in the PCB before next process phase.