

Cencorp 1300 BR

Depaneling

Cencorp 1300 BR provides best flexibility and efficiency in the PCB separating process

Cencorp's first depaneling product was a manually fed shearing machine that was introduced in the early 1980's. Now with more than 30 years' experience in manufacturing depaneling equipment, with pride we launch a new generation in-line depaneling cell, the Cencorp 1300 bottom router. Cencorp 1300 BR has extremely high accuracy and speed to cut PCB panels. It utilizes the most advanced linear motor technology for the PCB separating process; thus, providing high speed and high accuracy, but keeping the maintenance costs low.



Low cost of the product exchange

The fully automated Cencorp 1300 BR is designed for high volume mass-production. The fast product change over increases flexibility while guaranteeing a high through-put and, thus, minimizing production loss. Moreover, we recognize a growing need for ESD protection and a clean cutting process (less dust), which have been very carefully incorporated to our depaneling solutions. Also, the known Cencorp userand service-friendliness has been taken into account when designing the 1300 BR, allowing easy access inside to cell on both sides front and rear. The Cencorp depaneling machines are equipped with software interface that will allocate required information pertaining to daily production. In addition, we have very useful software options available like, PCB quality verification, bit height and diameter verification, CAD file download, off-line programming and others, which also increase productivity.

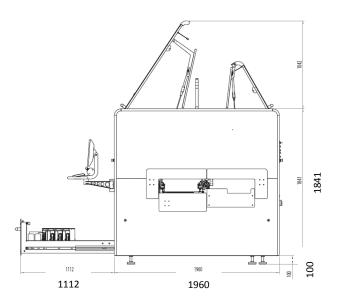
Modular platform

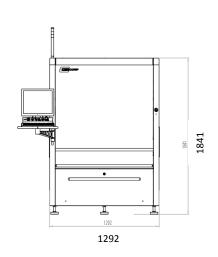
Our standard solution is based on modular product construction, which includes a wide variety of PCB handling solutions needed after the depaneling process, such as, tray conveyors, flat belt conveyors, PCB shuttle and palette conveyors.



Cencorp 1300 BR

Technical Data





Pick & Place Work Envelope

X-travel: 850 mm Y-travel: 1275 mm Z-travel: 160 mm W-travel: 360 degg

Router Work Envelope

X-travel: 480 mm Y-travel: 490 mm Z-travel: 50 mm

Accuracy

Repeatability (X,Y):±0.02 mm Repeatability (W): ±0.05o

Board Handling (panel)

Min. PCB size L x W: 50x50 mm

Max. PCB size L x W: 500 x 400 mm

Oversized PCB dimensions can be

handled upon request PCB transfer time: 1s (depending on run

Transfer protocol: SMEMA
Transfer height: 900 ±30 mm
2nd locating pin: Programmable
Automatic conveyor width adjustment**:
Programmable

PCB conveyor type: Two segments Max. PCB board weight: 4.0kg Top clearance: 100 mm Bottom clearance: 40 mm

PCB stopper position: programmable / fixed (option)

Pick & Place Performance

Max. Axis speed: 2500mm/s Max. Acceleration: X-axis 20000mm/s2, Y-axis 12000mm/s2, Z-axis 25000mm/s2 Recommend routing speed: 20-40mm/sec

Basic features

Product teaching (CATS): Camera-Assisted Teaching System

Broken bit detection Routing bit storage: 10 pieces

Gripper System

PCB pick & place: servo gripper Gripper finger width: programmable 0-

100mm

Gripper finger change: Automatic Gripper type identification Tool rack for product specific fingers: 8

---:ti---

positions

Multi gripper: Optional

Graphical User Interface

Operating system: Windows 7 USB memory: Standard Touch screen: Standard Network connection: Optional Dual Monitors: Optional

Machine Vision

Correction of PCB position: Optional Downward looking camera: Optional 2D-code reading: Optional

Routing verification: Optional External Vacuum System

Nilfisk: Optional Ruwac: Optional Others: Optional

Dust Flow Control: Optional

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 kW / phase

Software Options

CMS (cell monitoring system): Optional Automatic Program Change Over: Optional Finger validation system: Optional Good/bad board separation: Optional Router bit high verification: Optional Router bit diameter verification: Optional Offline Editor: Optional

Machine Dimensions

Width: 1300mm Depth: 1900mm Height: 1850mm Weight: 1800kg

Pneumatics Service Requirements

Pressure: 5-7 bar ±10%, dry clean air

Approx. air consumption: 100 l/min Environmental Requirements

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

Output conveyor and other solutions

Flat belt conveyor: 1500mm x 250mm Tray conveyor: tray width from 100mm to 400mm

Shuttle: maximum product width 400mm

Other

Centering unit on rear conveyor rail

Ionizer: Optional

Waste conveyor: Optional

** Patented: US6222629,FI105315,Pending EP