## Cencorp 1300 BR

automation

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### 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

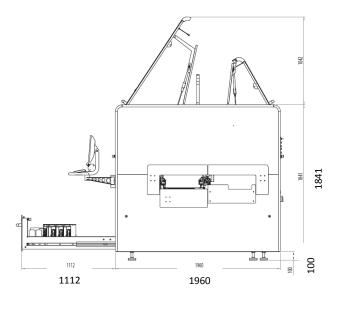
The fully automated Cencorp 1300 BR is designed for high volume mass-production. The fast product change over increases flexibility while guaranteeing a high through-put and, thus, minimizing production loss. Moreover, we recognize a growing need for ESD protection and a clean cutting process (less dust), which have been very carefully incorporated to our depaneling solutions. Also, the known Cencorp user-and 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.

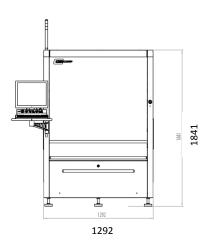
### **Modular platform**

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 **Basic features** X-travel: 850 mm Y-travel: 1275 mm 7-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): ±0.050 **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 mode) 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, Yaxis 12000mm/s2, Z-axis 25000mm/s2 Recommend routing speed: 20-40mm/sec

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 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** Voltage EU (USA): 400 (208) VAC 10% Frequency EU (USA): 50 (60) Hz

Nilfisk: Optional Ruwac: Optional **Others: Optional Dust Flow Control: Optional Electrical Service Requirements** 

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 EΡ

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