# Cencorp 1000 BR EVO2 Depaneling

### Fast and Flexible PCB Depaneling with all options available

Our world famous depaneling bottom router Cencorp 1000 BR, chosen by world-class manufacturers for its reliability and quality has now been completely renewed into 1000 BR EVO2.

Flexibility and high output can now easily be combined. The machine can be delivered with the flexible servo gripper, with a dedicated multi-gripper or with a combination of both. Adding the popular underboard support function turns the machine into a true high-volume machine.

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Optical routing verification, improved dust extraction, additional cleaning functions and other highly appreciated options gives you the best process performance available on the market.

The output of ready products is easily configured to your needs due to the unique frame design.

Equipped with extensive software options covering off-line CAD import, MES connectivity and traceability Cencorp 1000 BR EVO2 meets the toughest quality demands in electronics industry today.

When selecting Cencorp as your router supplier You can be sure to use the original bottom router technology invented by Cencorp already back in the 1980s.



## Cencorp 1000 BR EVO2 Technical Data



#### X-travel: 570 mm Y-travel: 1505 mm Z-travel: 200 mm W-travel: 360 deg **Router Work Envelope** X-travel: 436 mm Y-travel: 681 mm Z-travel: 50 mm Accuracy Repeatability (X, Y, Z): ±0.02 mm [3 s] Repeatability (W): ±0.05° [3 s] Board Handling (panel) Min PCB size: 75x75 mm Max PCB size: 400x350 mm Thickness, max: 5mm Transfer protocol: SMEMA Transfer height: 900±25mm PCB conveyor type: Two segment Max. PCB panel weight: 4.0kg Top clearance: 100 mm Bottom clearance: 40 mm Conveyor speed up to: 30m/min (adjustable) Width adjustment\*\*: Programmable Locking pins adj.: Programmable PCB stopper pos.: Programmable

Pick & Place Work Envelope

\*\* Patented: US6222629, FI105315, Pending FP

#### Pick & Place Performance

Max. axis speed: 2000 mm/s Max. acceleration: 20000 mm/s2 Rec. routing speed: 20-50 mm/sec

#### **Base Standards**

Teach In (CATS): Camera assist Broken bit detection: Optical Routing bit storage: 8 pcs Dust extraction support: Air ionization **Gripper System** 

PCB pick & place: Servo gripper Gripper finger width: Programmable Gripper finger change: Automatic Product presence detection: Standard Collision detection: Standard Tool rack for gripper finger: 2 positions Pneumatic multi-gripper: Optional

#### **Graphical User Interface**

Operating system: Windows USB memory: Standard Touch screen: Standard Second user interface on rear side: Optional Network connection: Optional **Machine Vision** 

CATS and Active vision: Standard Edge cutting inspection: Optional Optical routing verification: Optional Fiducial recognition time: < 1 s

#### **External Vacuum System** Nilfisk: Optional Ruvac: Optional Others: Optional **Dust Flow Control: Standard** Taifun cleaning units: Optional **Software Options**

Offline programming: Optional MES / ERP connections: Optional Traceability, Statistics, Production

control Auto Program Change: Optional

Finger Validation System (FVS): Optional Barcode readers: Optional

#### **Machine Dimensions**

Width: 1000 mm Depth: 2225 mm Height: 1950 mm Weight: 2100 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 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%