

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.

Optical routing verification, improved dust extraction, additional cleaning functions and other highly appreciated options give 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.

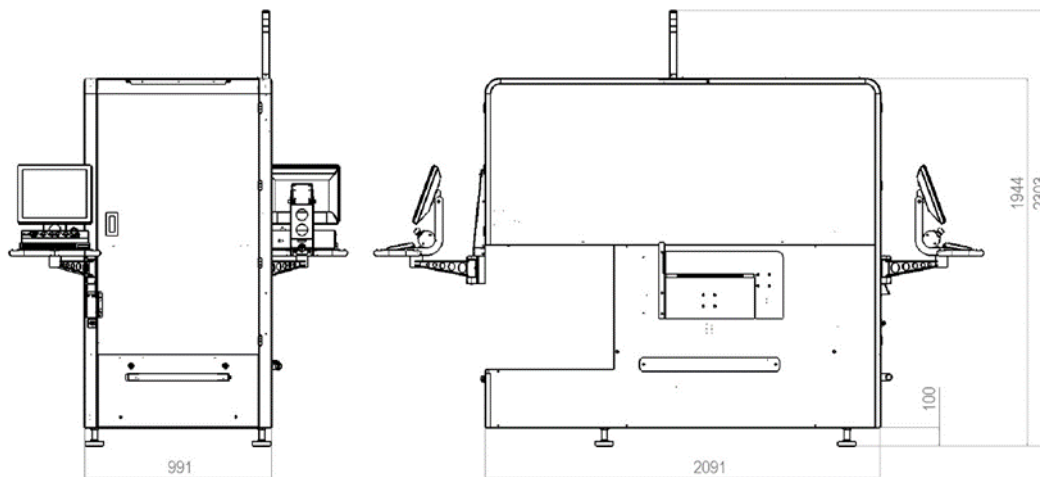
Equipped with extensive software options covering off-line CAD import, MES connectivity and traceability Cencorp 1000 BR EVO2 meets the toughest quality demands in electronics industry today.

**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



Pick & Place Work Envelope

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): $\pm 0.05^\circ$ [3 s]

Board Handling (panel)

Min PCB size: 75x75 mm
 Max PCB size: 400x350 mm
 Thickness, max: 5mm
 Transfer protocol: SMEMA
 Transfer height: 900 $\pm$ 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

** Patented: US6222629, FI105315, Pending EP

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
 $\pm 10\%$, dry clean air
 Approx. air consumption: 85 l/min

Environmental Requirements

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