

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 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.

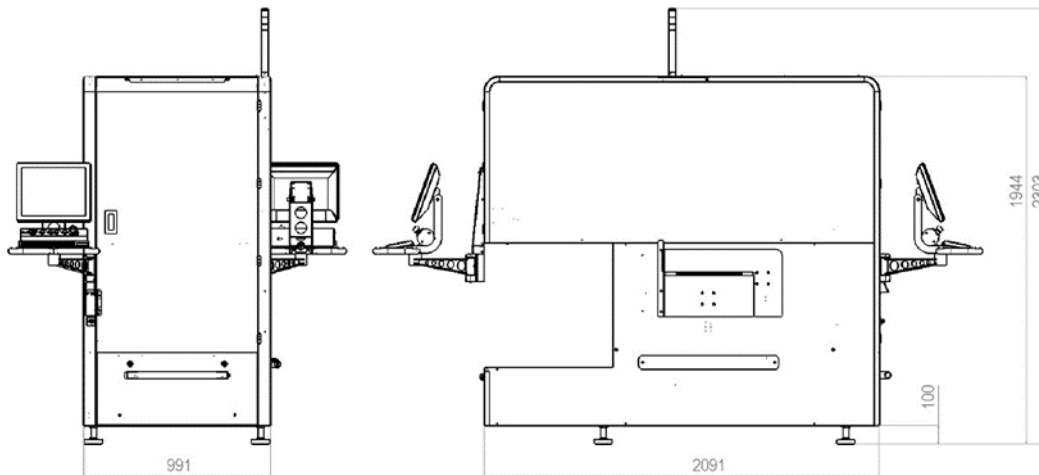
Equipped with extensive software options covering off-line CAD import, MES connectivity and traceability Cencorp 1000 BR EVO2 meets the toughest quality demands in electronics industry today.

**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



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+25mm
PCB conveyor type: Two segment
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 reg.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%