

Cencorp 1000 BR EVO Depaneling

Fast and Flexible PCB Depaneling

Our 4th generation depaneling bottom router Cencorp 1000 BR, chosen by world-class manufacturers for its reliability and quality has now been upgraded to 1000 BR Evolution. New machine control system and our latest user interface makes this router now even more attractive. New streamlined technical design makes the maintenance easier and reduces maintenance costs and machine down time

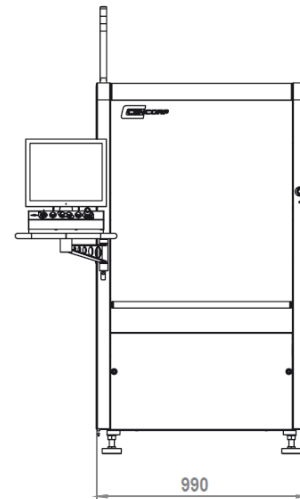
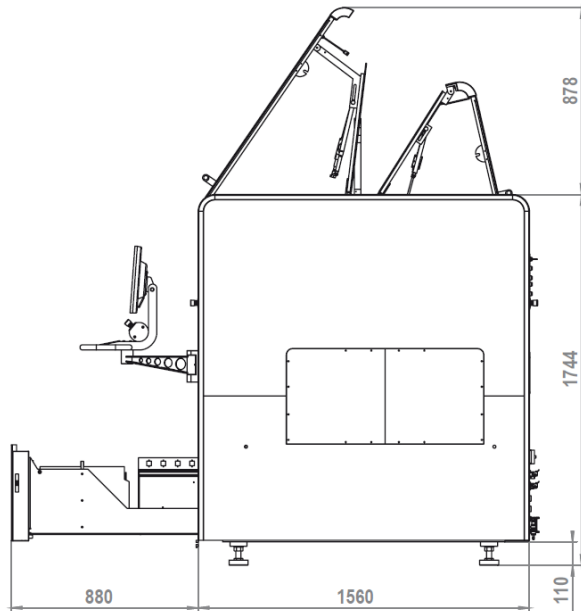
To ensure higher yield when running several product variants we have included automatic rail adjust, automatic program change and equipped our BR with servo gripper mechanism to eliminate the need for any manual intervention or special tooling requirements.

Equipped with extensive software options covering off-line CAD import, MES connectivity and traceability BR 1000 EVO 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 EVO Technical Data



Pick & Place Work Envelope

X-travel: 645 mm
Y-travel: 940 mm
Z-travel: 150 mm
W-travel: 360 deg

Router Work Envelope

X-travel: 450 mm
Y-travel: 415 mm
Z-travel: 50 mm

Accuracy

Repeatability (x,y,z): ± 0.03 mm [3 s]
Repeatability (W): ± 0.05 o [3 s]

Board Handling (panel)

Min PCB size: 50x50 mm
Max PCB size: 450x350 mm
Thickness, max: 5mm
Transfer protocol: SMEMA
Optional: WMV
Transfer height: 900+-25mm
PCB conveyor type: Two segment
Top clearance: 70 mm
Bottom clearance: 20mm
Conveyor speed up to: 16m/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: 15000 mm/s²
Rec. routing speed: 20–50 mm/sec

Base Standards

Teach In (CATS): Camera assist
Broken bit detection: Optical
Routing bit storage: 10+10 pcs
Dust extraction support: Air ionisation

Gripper System

PCB pick & place: Servo gripper
Gripper finger width: Programmable
Gripper finger change: Automatic
Gripping identification: Standard
Tool rack f. gripper finger: 3–4 positions
Pneumatic multigripper: Optional

Graphical User Interface

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

Machine Vision

CATS: Standard
Active vision: Optional
Fiducial reg.time: < 1 s

External Vacuum System

Nifisk Ec: Optional
Ruvac: Optional
Others: Optional
Dust Flow Control: Optional

Software Options

CMS: Local SPC
APCC: Auto Prg. Change
Barcode support: 1D or 2D

Machine Dimensions

Width: 992 mm
Depth: 1560 mm
Height: 1744 mm
Weight: 1700 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: 100 l/min

Environmental Requirements

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