

# *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

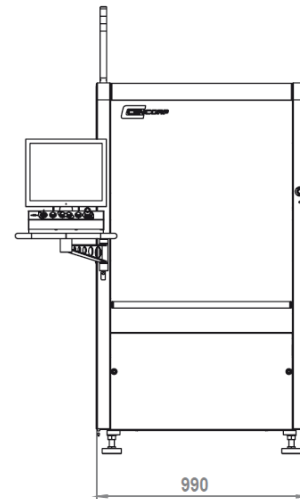
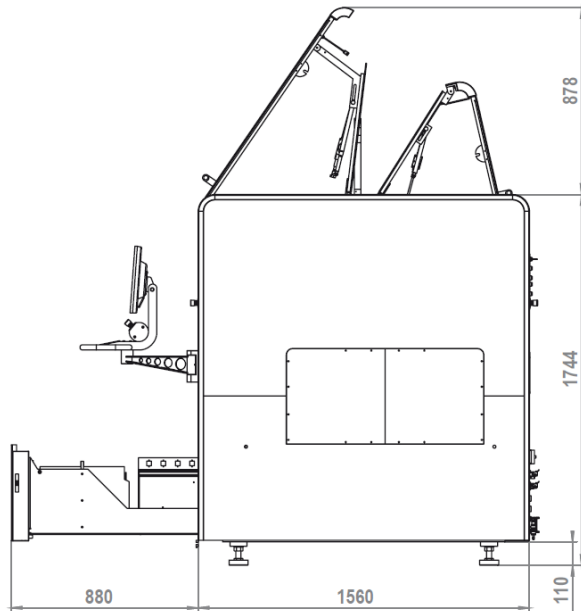
To ensure higher yield when running several product variants we have included automatic rail adjust, automatic program change and equipped our BR with servo gripper mechanism to eliminate the need for any manual intervention or special tooling requirements.

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):  $\pm 0.03$  mm [3 s]  
Repeatability (W):  $\pm 0.05$  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/s<sup>2</sup>  
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%