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+ to 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

### 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
- **Nilfisk 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 ±10%, dry clean air
- **Approx. air consumption**: 100 l/min

### Environmental Requirements
- **Operating temperature**: 10 ... 40°C
- **Operating humidity (RH)**: 30% ... 85%

**Patented:** US6222629,F1105315,Pending EP