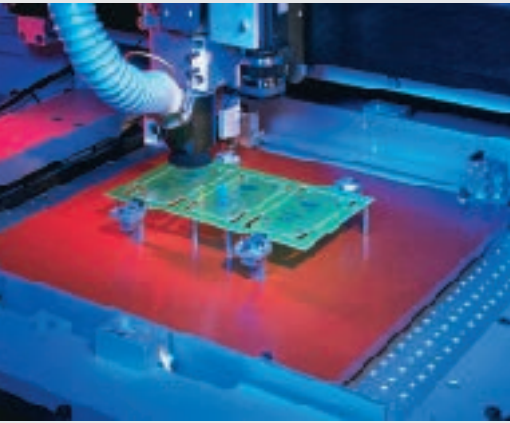




Cencorp TR2100



The Ideal Depaneling Solution for High-Volume, Mixed-Product Assembly

The Cencorp TR2100 post-assembly, circuit-side router provides superior speed and flexibility for high-volume, mixed-product assembly lines. With a panel handling time of only 4-5 seconds, this stand-alone machine is competitive in speed to most in-line machines.

Dedicated Fixtures Accommodate Most PCB Panels with Flexible, Fast Changeovers

Dedicated fixtures meet the automated depaneling requirements of OEMs, defense contractors and EMS companies. In addition, optional adjustable tool pin fixtures are flexible enough to provide an inexpensive solution for prototype production. Cencorp's patented dual-pallet shuttling system enables simultaneous panel unloading and reloading, reducing idle time and increasing production. Because each panel is fixtured independently, different product types can be processed during the same production run. To maximize throughput, choose the dual-spindle configuration (Cencorp TR2101).

Cencorp's Control Software for the Windows® XP Platform

Cencorp's field-proven control software, with an automated learn/teach mode and helpful programming prompts, makes the Cencorp TR2100 easy to use. In addition, the Video-Aided Programming option, an onboard camera, enables rapid, accurate online programming. The system's diagnostic features keep maintenance simple and efficient.



Technical Data

Machine Dimensions

Width: 1473 mm (58")
Depth: 2083 mm (82")
Height: 1803 mm (71")
Approximate weight: 1089 kilos (2400 lbs.)

Gantry

Gantry motors: 2-3 DC brushed servo motors
Servo repeatability: ± 0.0127 mm (0.0005")
Servo: X, Y
Pneumatic: Z (servo optional)

Board Handling

Max panel size: 528 mm x 495 mm (20.8" x 19.5")
Max component height
Bottom (tooling) side: 51 mm (2")
Top (router) side: 9.5 mm (0.375")
or to customer specs
Load height: 940 mm (37")

Utilities

Voltage: 208-220, 3-phase, 60 Hz, 25 Amps
380-400, 3-phase, 50 Hz, 20 Amps
or to customer specifications
Pressure: 5.5 bar (80 PSI) clean, dry air
Flow: 198 l/min (7 SCFM)

Vacuum System

Power: 1.9 kW (2.5 hp) rotary vane blower
Filtration: 3 stage disposable industrial vacuum filter bag, 0.3 micron (HEPA)

Spindle Motor

Size: 45 mm
Power: 500 watts
Max speed: Variable up to 50,000 RPM
Cooling: Air cooled
Router bit: Shank size 3.175 mm (1/8")
Tool change: Manual
Rout speed: Up to 75 mm (3")/sec
Slew speed: Up to 863 mm (34")/sec

Control

Cencorp TR2100 control software
Industrial computer, specifications:
Windows® XP USB Port
Pentium Processor 1 Network Port
1 Parallel Port CD-ROM Drive
2 Serial Ports 3.5 Floppy (1.44 MB)
15" SVGA Color Monitor

Programming

Camera-Assisted Teaching System (CATS):
Program Teach Mode:
Coordinates are taught by physically moving the motors to the specific coordinates, "teaching" the machine the positions.
Program Test Mode:
Manually or automatically step through program to verify the program before running production.

Software Features

Event Log
Diagnostic Tools
Tool Life Tracking
Vacuum Bag Life Tracking
Multi-Level Password Protection

Options

Video-Aided Programming
Dual-Spindle Configuration
(requires 3-phase power)
Bit-Breakage Detection
Programmable Servo-Z Axis
Active Vision
Anti-Static Lexan
Large Window - 610 mm x 610 mm (24" x 24")

Specifications subject to periodic review and change without notice

