

Laser
Depaneling Cell
J501-57



MAXIMIZE



JOT automation

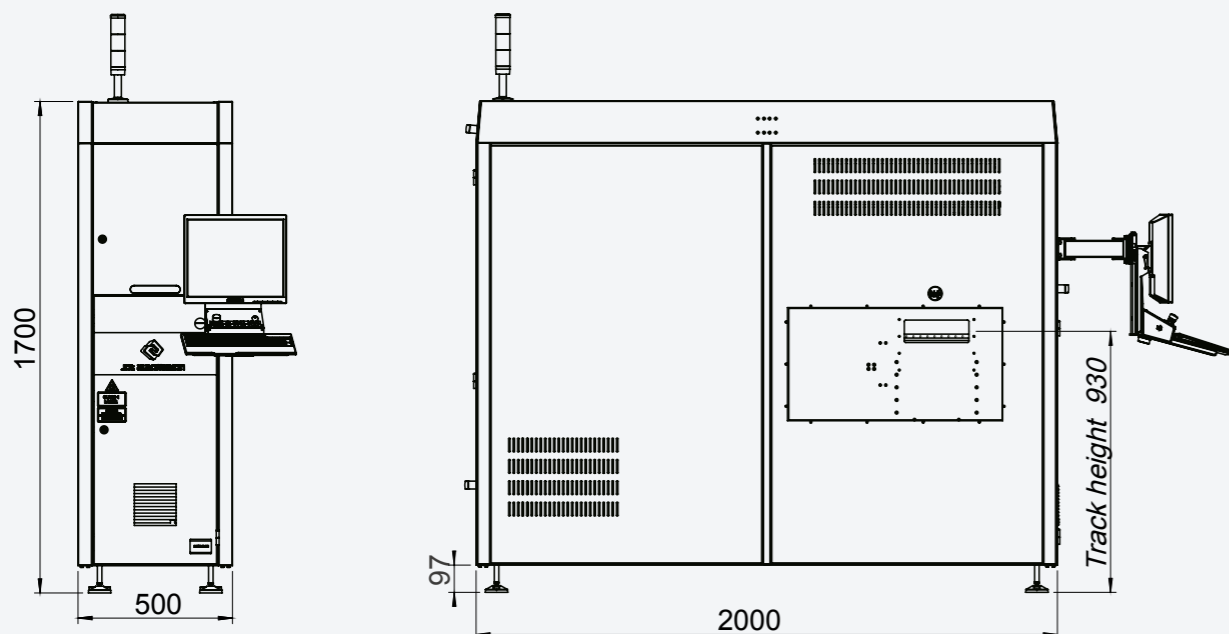
Laser Depaneling Cell J501-57

JOT Automation J501-57 Laser depaneler is designed for any electronics manufacturers to cut/separate/depanel their products.

J501-57 offers extensive benefits to the production process with stress free laser cutting process with minimal amount, or even none, customer specific parts. With JOT Automation J501-57 Laser depaneler you can reduce downtime and service costs compared to traditional production lines and at the same having dustless cutting environment.

Key features

- Stress free non-contact depaneling
- Depaneling without product specific tools
- Dust free process
- Zero change over time
- Depaneling of rigid-flex boards
- Built in multi language support
- Easy and precise cell teaching



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Standard Features

- CO2 laser
- Cutting beam from top side
- Cutting nozzle moved by upper robot axes
- Fume extraction with active carbon filter
- Product handling by input-output conveyors
- Product flow direction from left to right
- Machine vision
- DXF file support for teaching cutting points
- Graphical User Interface
- ESD-safe design
- CE-safety compliant

Options

- Off-line model
- Dual-line model
- PWB sizes other than specified
- Different laser types
- Different conveyor interface
- Different input data format
- Connection to factory database or to network
- Fume exhaust as factory system
- Different power supply
- Change the conveyor feeding direction (from right to left)
- Fixed edge: rear
- Other language
- Color
- RFID
- Spare part kits:
Class 1, Class 2, Class 3

Technical Characteristics

- Machine dimensions (Length x Depth x Height): 500 x 2000 x 1700 mm (20" x 79" x 67")
Height 2300 mm (90") with light beacon
- Weight of router: approx. 600 kg (1323 lbs)
- Input conveyor:
Edge carrier
Fixed edge in front
Width 75...470 mm (3"...18.5")
Width adjustment automatically
- Output conveyor:
Flat belt conveyor
Width up to 470 mm (18.5")
Integrated vacuum system
- Cutting speed:
Nozzle speed is up to 1500 mm/s (59"/s).
Net cutting speed depends on product (amount of sweeps).
- Cutting accuracy: ± 0.1 mm (± 4 mils)
- Width of cutting line: < 0.1 mm (< 4 mils)
- Repeatability of robot axes: ± 0.02 mm (± 0.8 mils)
- Noise level: < 80 dB(A)



Installation Requirements

- Power supply 3P+N+PE 230V / 50Hz / 16A
- Air pressure 0.6 MPa (6 bar)
- Air consumption 150 l/min / max (5.3 cfm)

Board specifications

- Material FR4 without copper, rigid and flexible printed circuits
- Maximum dimensions (Width x Length):
470 x 355 mm (18.5" x 14"): Off-Line model
470 x 300 mm (18.5" x 11.8"): In-Line model
200 x 240 mm (7.9" x 9.5"): In-Line model with two parallel tracks (dual-line)
- Thickness 0.1 ... 2.5 mm (0.004" ... 0.1")
- Components heights on upper and bottom side 25 mm (1")



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