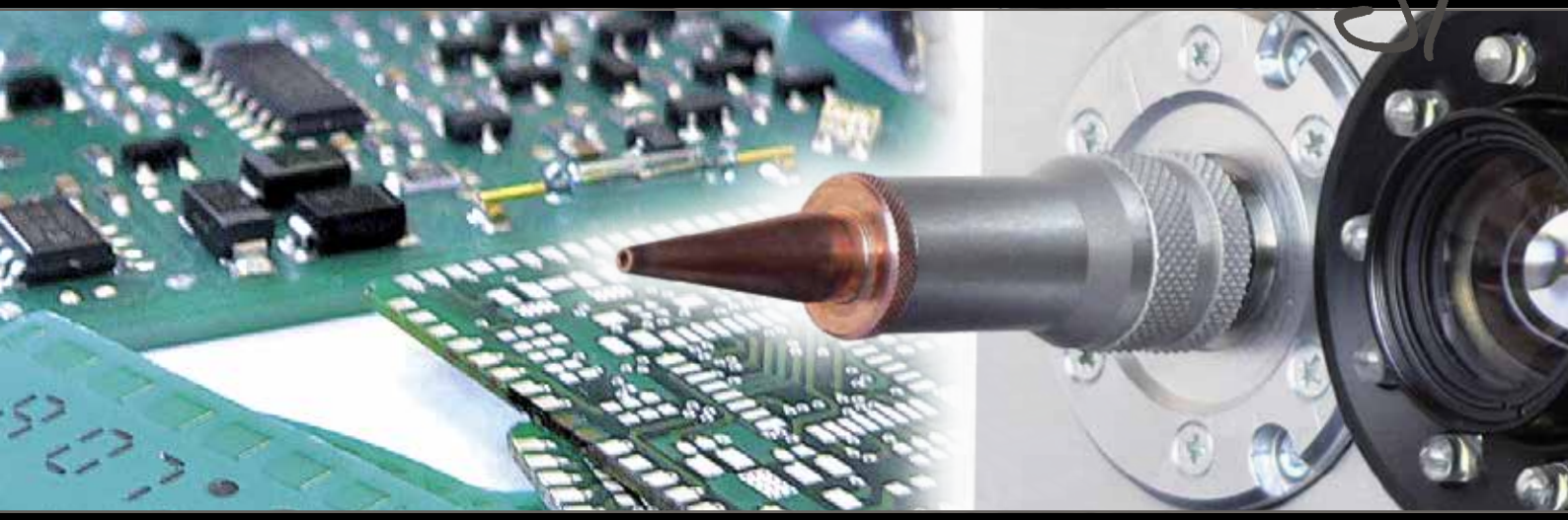
where ideas become technology



NEOCUT PLUS

Laser Depaneling

NeoCut Plus shape is a Laser depaneling equipment, based on the Osai innovative LASER Cut Technology, capable of performing clean and safe cut without generating dust nor mechanical stress on the electronic components.

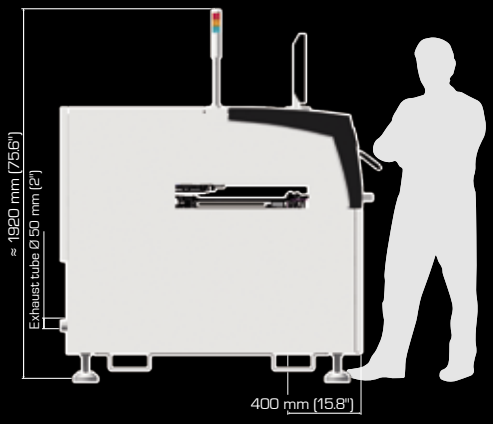
LASER depanelling is the best way to perform extremely fast depaneling processes (up to 70% saving on cutting time obtained with traditional methods) and flexible cutting (tabs or Vcut depaneling PCBs up to 3 mm thickness).

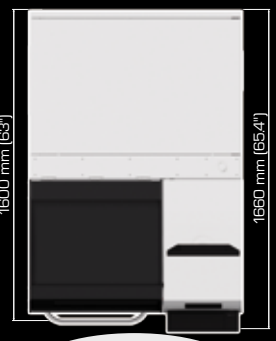
PROBLEM: Particular PCB shapes
SOLUTION: Simple Cutting Plan

PROBLEM: Connector under the PCB Junction
SOLUTION: Laser pre-cutting of the PCB Junction

V-Cut above the Flat
Laser pre-cutting of the V-Cut

Osai
automation systems
www.osai-as.com





MACHINE CONFIGURATION	
Transport (Height)	SMEMA compliant
Max. transport width	480 mm (19") with automatic width adjustment
Interface	SMEMA
Transfer direction	From left to right (optional from right to left or pass-back)
Operating side – Fixed rail	Front of the machine

PANEL DIMENSIONS	
Panel (Length - Width)	70 mm to 480 mm (2.8" to 19") - 50 mm to 480 mm (2" to 19")
Panel (Weight)	Up to 3 Kg (6,6 lbs)
Transport PCB	3 mm carrying edge Flat belt
Panel thickness	0.5 mm to 3.5 mm (19,7 mils to 138 mils)
Panel clearance	40 mm Up / 40 mm Down
Cutting area (Length - Width)	Up to 400 mm (Up to 16")

INSTALLATION REQUIREMENTS			
Power supply	CE 230V	ETL	208/240/277/440/480/575V
Power supply system	CE 1P+N+PE - 50/60 Hz, +/-10%	ETL	2Ph+GND 3 Wire - 50/60 Hz, +/-10%
Power consumption	Typical 1,5 kW at work		
Air pressure	6 bar (87 p.s.i.)		
Average consumption	< 10 Nl/min. (2,64 gpm)		
Ambient temperature	22°C +/- 2°C (72°F +/- 4°F)		
Humidity	< 70% (non-condensing)		

MACHINE DESCRIPTION	
Length x Width x Height	1100 mm x 1660 mm x 1920 mm (43.5" x 65.4" x 75.6")
Codes	Data Matrix ECC200, Code 39, Code 128, 2/5 Interleaved, QR code
Repeatability	+/- 20 µm (0,78 mils)
Accuracy	+/- 20 µm (0,78 mils)
Track speed	24 m/min
Axis speed (X - Y)	54 m/min
Weight	Approx. 1100 Kg (2425 lbs)
Color	RAL 9018, RAL 7016
Noise level	< 70 dB

LASER DESCRIPTION	
Laser power max	80W
Laser source	CO_2
Cutting speed	Up to 3 m/min
Cutting kerf	180 µm (7 mils)
Board thickness	Up to 3 mm

STANDARD FEATURES

Osai cutting head, Cutting box, Standard camera for programming

UPGRADES AND OPTIONS

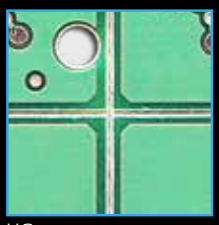
- Automatic power meter for "power on workpiece" measurement
- 2D code and fiducial recognition
- DB connection
- Exhauster


1mm Stamp


2mm Stamp


1mm Thin PCB Junction


2-3mm Average PCB Junction


V-Cut


Full Cutting

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