







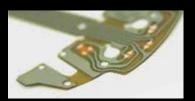
Laser **Depaneling** (UV, XV, CO_p, **ULTRAFAST**)

The flexible circuit's market is primarily driven by the demand for smaller and lighter products; those FPCBs require tighter tolerances and smaller spacing to cut the board after component placement. NeoCut Shape performs very high accurate and fast cutting operations, without mechanical stresses on components.

As well as supplying an exceptional solution in depaneling Kapton® and flexible PCBs, the NeoCut Shape system is able to cut PCBs and plastic surfaces, with four different types of Laser, depending on customer need (UV - XV - CO₂ - ULTRAFAST).

The **ULTRAFAST** Laser is the perfect solution for application that requires a minimized heat-affected zone (HAZ). The result is a fast, precise and clean cut.

Easy programming, also editable off-line, enables the neocutuv shape to be used both for prototyping and mass production.



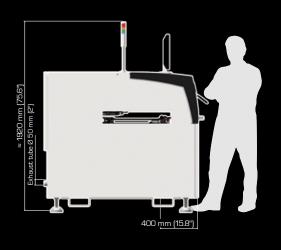


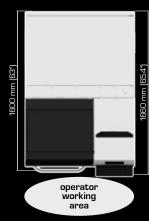












MACHINE CONFIGURATION	
Transport (Height)	SMEMA compliant
Max. transport width	480 mm (19") with automatic width adjustment
Interface	SMEMA
Transfer direction	From left to right (optional from right to left or pass-back)
Operating side – Fixed rail	Front of the machine
PANEL DIMENSIONS	
Panal (Langth Midth)	70 mm to 480 mm (2.8" to 10") 50 mm to 480 mm (2" to 10")

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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
Whole cutting area	Up to 480 x 480 mm (Up to 19" x 19")
Single cutting area	Up to 100 x 100 mm (Up to 4" x 4")

INSTALLATION REQUIREMENTS		
Power supply	(€ 230V	(1) 208/240/277/440/480/575V
Power supply system	(2Ph+GND 3 Wire - 50/60 Hz, +/-10%
Power consumption	Typical 1 kW (+ 0,2 up to 0,8 kW depending or	n Laser)
Air pressure	6 bar (87 p.s.i.)	
Average consumption	< 10 NI/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 reading and writing	Data Matrix ECC200, Code 39, Code 128, 2/5 Interleaved, QR code
Repeatability	+/- 20 µm (0,78 mils)
Track speed	Up to 24 m/min
Axis speed (X - Y)	Up to 54 m/min
Weight	Approx. 1100 Kg (2425 lbs)
Color	RAL 9018, RAL 7016
Noise level	< 70 dB

LASER DESCRIPTION	
Max Laser Power	12W (UV) - 20W (XV) - 100W (${\rm CO_2}$) - 50W (ULTRA FAST)
Smallest Spot Laser (uv - xv - co ₂ - ultra fast)	Starting from 20 µm (0,8 mil)

STANDARD FEATURES

Pressurized optical path to avoid optics contamination, high efficiency fumes and dust extraction, 2D code and fiducial recognition, power meter on workpiece, in focus belt conveyor, HW predisposition for DB Connection, remote control

- Automatic power on workpiece adjustment
- Programmable focus position +/- 10mm
- Double belt
- SW Customization for DB connection

UPGRADES AND OPTIONS

- Full marking library (2D code, Bar code and others)
- Exhauster
- Vacuum table

