## where ideas become technology | PC-HERMES-9852| | Video



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

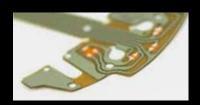
The flexible circuit's market is primarily driven by the demand for smaller and lighter products; those FPCBs require tighter tolerances and smaller spacing to cut the board after component placement. NeoCut Shape performs very high accurate and fast cutting operations, without mechanical stress on components.

As well as supplying an exceptional solution in depaneling Kapton® and flexible PCBs, the NeoCut Shape is able to cut FR4 PCBs, with three different types of Laser, depending on customer need (UV - XV - ULTRAFAST).

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

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



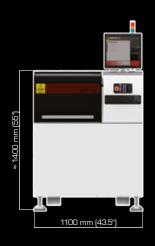


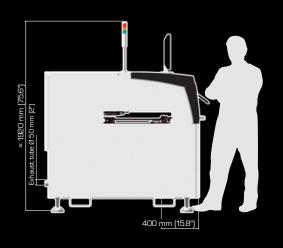


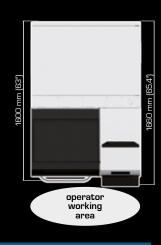












| MACHINE CONFIGURATION                      |   |       |                                   |
|--|---|-------|-----------------------------------|
| Transport (Height)                         | SMEMA compliant   |       |                                   |
| Max. transport width                       | 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                           |   |       |                                   |
| 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 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                               | <b>(€</b> 230V  |       | 208/240/277/440/480/575V          |
| Power supply system                        | <b>(€</b> 1P+N+PE - 50/60 Hz, +/-10%                            | (II). | 2Ph+GND 3 Wire - 50/60 Hz, +/-10% |
| Power consumption                          | Typical 1 kW (+ 0,2 up to 0,8 kW depending on 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 marking                  | Data Matrix ECC200, Code 39, Code 128, 2/5 Interleaved, QR code |       |                                   |
| Repeatability                              | +/- 20 μm (0,78 mils)   |       |                                   |
| 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                            | 15W (UV) - 40W (XV) - 50W (ULTRA FAST)                          |       |                                   |
| Smallest Spot Laser (uv - xv - ultra fast) | Starting from 20 µm (0,8 mil)                                   |       |                                   |
| CTANDADD FEATURES                          |   |       |                                   |

## UPGRADES AND OPTIONS

Pressurized optical path to avoid optics contamination, high efficiency fumes and dust extraction, 2D code and fiducial recognition, power meter,

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

- Automatic power adjustment
- Programmable focus position +/- 10mm

belt conveyor, HW predisposition for DB Connection, remote control

- Double belt for inline process
- SW Customization for DB connection