

# where ideas become technology



Video



Vers. 2.3

## Scalable modular production

Neorouter is the ideal solution for mechanical separation of PCB panels.

Due to his high flexibility, Neorouter is ideal for high volume mass-production but also for high mix, thanks to the special clamping head that doesn't require modifications (except the fingers) when the product changes. Neorouter is SMEMA compliant.

Routing bits are automatically replaced, without the operator intervention.

The machine assures the control of the presence of the routing bit with automatic exchange.

A cleaning station can be integrated before the automatic sorting, to remove the dust particles on the boards.

It's possible to sort the separated parts on trays, feeders or magazines; it's also possible to connect the Neorouter to the testing machine (or to the Customer traceability) in order to discriminate the OK and KO parts.

The programming is easy and fast, due to the operator interface developed by Osai for all the Neo Modula platform.

Those features guarantee a low cost of ownership and very fast set up, base elements to be competitive in the market.

- Fixtureless
- In line automatic system
- Up to 4,5mm PCB depaneling
- PCB routing & packaging in unique equipment
- PCB clamping to avoid mechanical vibrations



**NEOROUTER**  
modula

### CONFIGURABLE OUTPUT



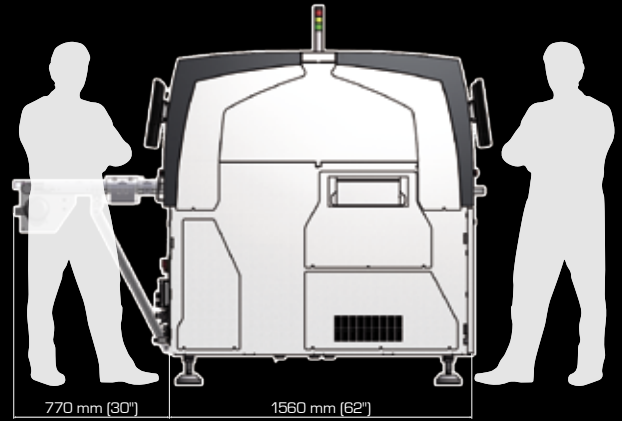
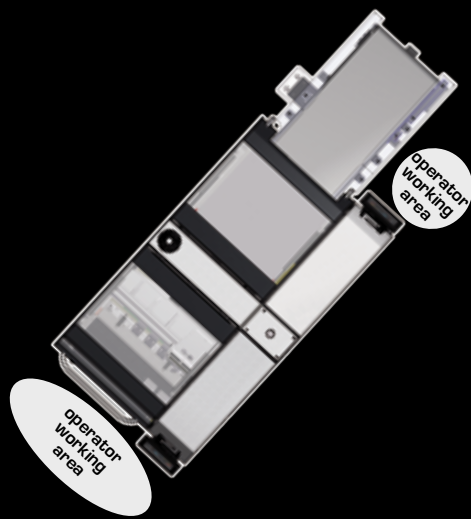
PALLET



BLISTER



TAPE



### MACHINE CONFIGURATION

Transport (Height)	SMEMA compliant
Max. transport (Width)	300 mm (12") 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)	70 mm to 350 mm (2.8" to 14")
Panel (Width)	50 mm to 300 mm (2" to 12")
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	Up 100 mm - Down 40 mm
Cutting area (Length)	300 mm (12") or 490 mm (19") with double stop
Cutting area (Width)	Up to 300 mm (Up to 12")

### INSTALLATION REQUIREMENTS

Power supply	CE 400V	208/240/277/440/480/575V
Power supply system	CE 3P+N+PE - 50/60 Hz, +/- 10%	3Ph+GND 3 Wire - 50/60 Hz, +/-10%
Power consumption	Typical 4 kW at work	
Air pressure	6 bar (87 p.s.i.)	
Average consumption	<110 NI/min. (29 gpm)	

### MACHINE DESCRIPTION

Length x Width x Height	900 mm x 2610 mm x 1900 mm (35.5" x 103" x 75")
Codes	Data Matrix ECC200, Code 39, Code 128, 2/5 Interleaved, QR code
Repeatability	+/- 5 µm (0,19 mils)
Accuracy	+/- 10 µm (0,39 mils)
Top axis speed (X - Y - Z)	150 m/min - 150 m/min - 54 m/min
Bottom axis speed (CX - CY)	72 m/min - 90 m/min
Weight	Approx. 1500 kg (3307 lbs)
Color	RAL 9018, RAL 7016
Noise level	< 70 dB

### UPGRADES AND OPTIONS

- Vision system for programing
- 2D code and fiducial recognition
- Second head
- Cleaning station with ionized air
- Handling modules for automatic loading and unloading
- Exhauster
- DB Connection

The specifications given in this document represent the state of engineering at the time of publishing. Osai reserves the right to make modifications on the specifications and materials.