

PIERGIACOMI DPF300 - PCB MANUAL DEPANELING MACHINE (AL, FR4)



SKU: 151405P



DPF 300 MACHINE FOR PCB SEPARATION

Piergiacomì DPF 300 - Patented manual depaneling system, designed for separating small and medium series of PCBs. DPF-300 **cuts PCB isthmus with the same quality as an automatic system, at significantly lower costs**. It is ideal for all those "intermediate" situations when the use of a manual tool would be too expensive in terms of labor, while the use of an automatic depanelizer would not justify amortization costs.

The main feature of DPF-300 is the possibility to **change very fastly the milling cutter and the interchangeable guide** (designed by Piergiacomì). The guide quickly assists the operator in the positioning phase and in dragging the PCB until the cut is done. Its particular shape **avoids to damage the PCB** in case the operator, having inserted it wrongly, doesn't match perfectly the guide into the eyelet.

The particular design of the guide gives **total protection against accidents** according to safety rules.

DPF-300 has been designed to **avoid problems of stress, breakage or tearing of PCBs fibers** that can occur using standard blades or manual tools: situation that today, with the increasing complexity and miniaturization of processes, are not tolerated. Thanks to the **integrated extraction system** positioned directly above the guide, DPF-300 can be easily placed in any working area.



Customized versions of DPF-300 are available for depanelizing **circular or short boards**.

The machine is completely electric and does not require the use of compressed air.

Scope of supply: DPF-300 depaneling machine equipped with extraction system and cartridge filter, 1 x Standard guide in the size required by the customer, 10 x Milling cutter of the corresponding size for cutting FR4/CEM.

Options available (NOT included): Customized circular guide, Customized short guide (length 5 mm), Milling cutters for aluminium cutting.

Specifications

- PCB thickness: max. **4 mm**
- Isthmus distance from components: min. 1 mm
- STANDARD INTERCHANGEABLE GUIDE:
 - Material: Hardened and tempered steel
 - Available thickness (slot width): **from 0.8 to 3.175 mm** ($\pm 0/-0.02$ mm)
 - Slot length: min. 11 mm
- MILLING CUTTERS AVAILABLE (FOR STANDARD GUIDE):
 - Cutters in hard metal with specific geometry for **FR4 and CEM** (supplied), or **ALU** (on request)
 - Available diameters **from 0.8 to 3.175 mm**
- Supply voltage: 230 V 2P + T Schuko
- Electric microspindle speed: max. 24000 RPM
- Vibrations: $< 2.5 \text{ m/s}^2$ – Acoustic pressure level (measured at operator's site): 80 db (A) (+/- 3 db)
- Built-in electric suction system with cartridge filter (1"-1/4)
- Depression: 28 kPa (-280 mBar)
- STRUCTURE:
 - Table with laminated ESD safe worktop and EPB 90°
 - ESD safe frontal feet made of zinc coated steel, ESD safe rear turning wheels with brakes $\varnothing 80$ mm
 - Dimensions: 64 x 70 x 95h cm – Weight: 73 kg
 - Working area required: 164 x 170 cm
- ESD properties: Compliant with **IEC 61340-5-1** standard.