

# DPF 300

DEPANELING SYSTEM



New version!

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technology!



# TECHNICAL FEATURES

## Manual system for the separation of PCBs (aluminium, CEM and FR4)



DPF300 is a manual depaneling system designed by Piergiacomì to solve needs of depanelizing of small series when the use of a pliers could aggravate the product of an excessive labour and when the use of an automatic depanelizing would not justify the cost of amortization. The main feature of DPF300 is the possibility to change in a very fast way the milling cutter and the interchangeable guide (for which Piergiacomì has a patent). The guide it is useful to quickly assist the operator to place and then to drag the circuit until the cut is done. The particular shape of the guide avoids to damage the assembled circuit if the operator inserting it wrongly doesn't match perfectly the guide inside the eyelet. The particular shape gives a total protection against possible incidents according safety rules. Piergiacomì designed and realized this new DPF300 to solve problems due to stress, break or tearing out of PCB's fibers that

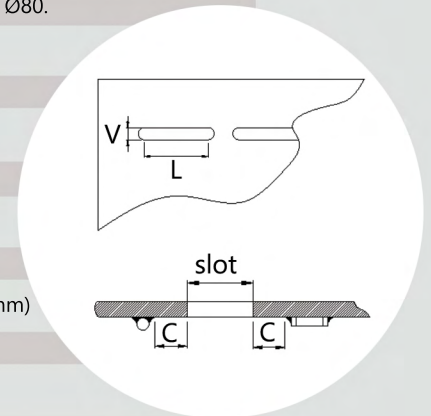
often occur using standard blades or manual tools and that with the increasing complexity and miniaturization it is not well tolerated. DPF300 cuts the isthmus with the same quality that has an automatic system but with lower costs. DPF300's vacuum system allows to place the system easily and quickly in each working area.

### TECHNICAL FEATURES

- Interchangeable guide in hardened and tempered steel. Standard thickness: 1.0 - 3.0mm
- Milling cutters in hard metal with specific geometry for FR4, CEM and aluminium cut. Standard diameters: 1.0 - 3.175mm
- Electrical micro spindle speed: max 24000 rpm.
- Integrated electrical aspiration system located directly on the interchangeable guide; with integrated cartridge filter (1" - 1/4).
- Laminated ESD table with EPB 90°, ESD zinc coated steel frontal feet and rear turning wheels with brake Ø80.
- Vibrations: < 2,5 m/s<sup>2</sup> - Acoustic pressure level : 80db (A), (+/-3db) measured at operator's site
- Working area needed: 164x170cm - Dimensions : 64x 70x 95(H) cm - Weight: 73 kg
- Voltage: 230V/50Hz - power: 0.90Kw - socket: 230V 2P+T SCHUKO
- Depression: 28 kPa (-280 mBar)

### PCB TECHNICAL FEATURES

- Max PCB's thickness: max4.0 mm
- Slot length (L): min. 11 mm - Slot width (V): for a standard guide 1.0 - 3,175 mm (tolerance 0 / - 0.02 mm)
- Isthmus distance from components (C): min. 1 mm
- PCB materials: FR4 – CEM – ALUMINIUM (for aluminium special milling cutters are needed)
- CE Mark



### FOR STRAIGHT AND CIRCULAR BOARDS!!!



*Piergiacomì could change some of the product features listed in this documentation without previous notice to customers.*

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