

# DPA 500

AUTOMATIC MACHINE FOR PCB SEPARATION

**DPA500** is an automatic machine for the PCBs separation. Using an end mill this machine is able to cut isthmus that keep anchored the printed circuit to the board on which it has been realized. Cuts can be made in any direction and with linear or circular paths. It has 500x500mm table for the loading/unloading of circuits. Having just one work drawer makes the DPA500 much more compact, small sized and obviously low cost.

The user friendly software allows the operator to manage in a short time and in Windows environment each programming phase. Through a self learning process performed by a camera and a geometric balance, the machine can correct errors on the board.



Piergiacomini is also able to customize part of the software according to particular work phases that the customer needs to manage better.

With an appropriate software, the machine is able to realize the drilling of the pins masks for repetitive jobs, making the customer completely independent for their production..

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# TECHNICAL FEATURES

**Work area:** 500x500x50 mm

**PCB dimensions:** 500x500 mm

**PCB thickness:** from 0.8 to 6 mm

**Axes control X,Y,Z:** interpolation the 3 axes with Brushless motors

**Vacuum speed:** 1000 mm/s for each axis

**Work speed:** 50 mm/s

**Max cutting force:** 100 N

**Positioning precision:** 0.03 mm

**Repeatability:** 0.02 mm

**Cutter diameter:** from 1 to 3 mm

**Spindle speed:** from 10000 to 29000 r/pm

**Tool replacement:** manual

**Power:** 230 V

**Power consumption:** <1200 W

**Steel body structure**

**Vacuum system predisposition**

**Weight:** 120 Kg

**Dimensions:** 900x1000x750 mm

**CE Mark**

## OPTIONS

**Table for machine standing with integrated vacuum system weight: 95 Kg**

**Support table**

**Vacuum system**

**Customized vacuum system heads**

**Ionizer**

**Interchangeable PCB support**

**Holding boards masks**

**CAD or Gerber file programming**

**Custom software**

**Bar code or matrix reading**

**PC**

## SOFTWARE

**OS:** Windows7 or higher

**Self-learning:** by camera

**Users management:** operator and administrator

**Customized work parameters**

**Vision system for an automatic isthmus position identification**

