



Strip Separator

HEKTOR 4

Operating Manual

Edition 1/02



1. Product Description

Hektor 4 is a tool to separate milled PCB's which are connected by small strips carefully and economically.

The blades are arranged customized. It depends on the shape and the size of the PCB to be cut. They are made of special steel and they are low-wear.

The blades are offered in 5 standard width. Special sizes are manufactured by request.

Hektor 4 uses compressed air connection for the operation.

It is recommended to connect an industrial vacuum cleaner. This way the separated pieces may drawn off right away and it is possible to dispose the pieces immediately.

Hektor 4 is prepared to connect an industrial vacuum cleaner.

2. Technical Specification

Separation principle	Blade
Number of blades	max. 20
Thickness of the PCB	max. 2,0 mm
Compressed air connection	1/4"-coupling plug
Operating pressure	3 - 6 bar
Power supply	115/230 V~ - 50/60 Hz
Operating temperature	15 - 30° C
Storage-and transport temperature	-20 until 85° C
Humidity	10 - 85 %
Suction pipe	Dm. 31 mm
Length x Width x Height (in mm)	500 x 320 x 303

3. Contents of Delivery

Hektor 4

Blades according the order

Service tools

Power cable

4. Safety Instructions



Caution !

- **Hektor** may only be used to separate PCB boards. Do not use the machine for any other purpose than its intended use. The supplier does not take any responsibility.
- Use only faultless cut tools.
- Attend that the cover is closed during operation.
- When separating PCB's with cover open, protective gloves and goggles should be worn.
- Keep hands out of the blade area if the compressed air is switched on.
- Disconnect the air after finishing the work.
- Disconnect the power supply after finishing the work by using a suction device.

5. Connections

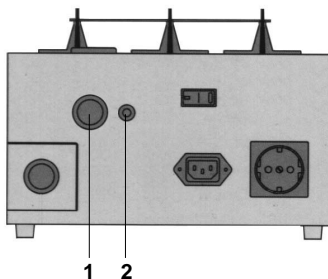


Fig. 1 Compressed air connection

Compressed air connection

- Use only waterfree and filtered compressed air.
- Put the compressed air tube, which is used for the pressure air supply, into the socket (2) belonging to it.
- Connect the compressed air tube at the pressure air supply.
- The valve of the pressure regulator is adjusted at 6 bar working pressure. It is shown at the manometer.
The working pressure may not be greater than 6 bar (limited by the stability of the blades).
A working pressure less than 3 bar is not adjustable.
- If you would like to operate with another working pressure or if it is necessary to adjust it you have to open the valve of the pressure regulator.
Pull the hood (1) out and adjust the pressure. Press the hood (1) in.

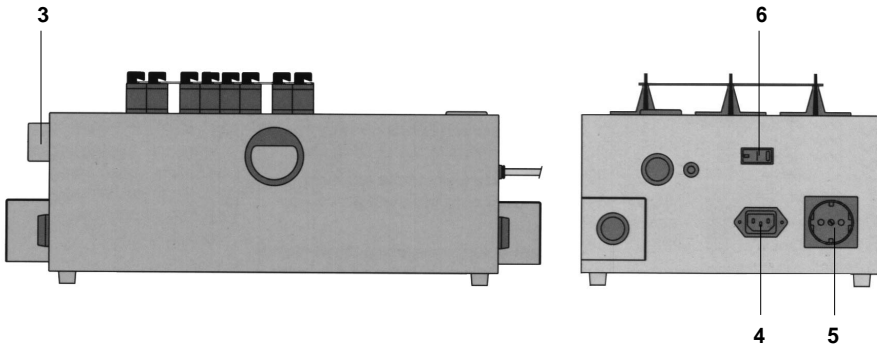


Fig. 2 Power supply

Connection of a suction device

- Connect the tube of the suction device with the suction pipe (3) on the side of the strip separator.
- Make the electrical connection with the industrial vacuum cleaner. Put the power cable of the cleaner into the socket (5) of the **HEKTOR 4**.
- Connect the device with an earthed socket. Use the delivered power cable. Put this cable into the power module (4).
- Now it is possible to switch on and off the suction device on the switch of the strip separator.

6. Operation

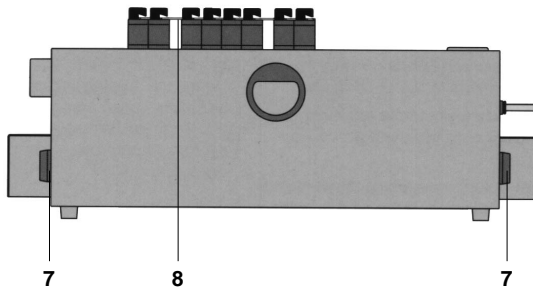


Fig. 3 Separation

- Slide the PCB (8) to be separated with the pre-scored groove from the top to the blades. Place the strips at the matrices (12) and slide they against the blades.
- Activate the separation by actuating both hand switches (7) on the sides of the strip separator.
- Remove the separated boards.
By using a suction device the rests will be disposed permanently.

7. Maintenance and Cleaning

The cleaning of the separator from the rests depends on the number of separated boards. By using a suction device the rests will be disposed permanently. Nevertheless it is recommended to check regular whether there are rests in the machine. These rests have to be disposed.

Cleaning of the machine



WARNING !

Before starting any maintenance, disconnect the Hektor 4 from the power supply and from the compressed air supply !



CAUTION !

The blades are sharp ! Risk of injury !

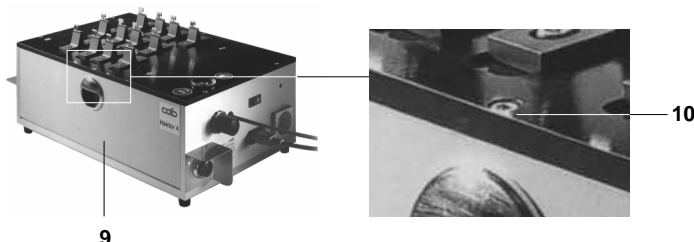


Fig. 4 Cleaning the device

- Remove the cover. Use the tool including in the contents of delivery.
- Open the door (9) on the front of Hektor 4 by loosening the screw (10).
- Dispose the rests on the blade sheet and in the area under the blade sheet. Use compressed air if necessary.
- Close the door, tighten the screw firmly.
- Mount the cover. Use the tool including in the contents of delivery.

Blades

The blades are to check on wear (broken edges) regularly and to replace if necessary.

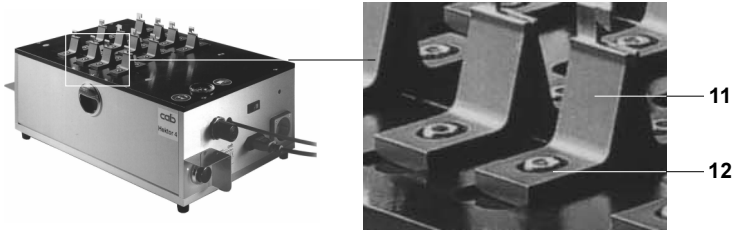


Fig. 5 Removing the matrix

- Remove the cover. Use the tool including in the contents of delivery.
- Loosen the screw (12) and remove the matrix (11).
The lower part of the blade and a pin are visible.

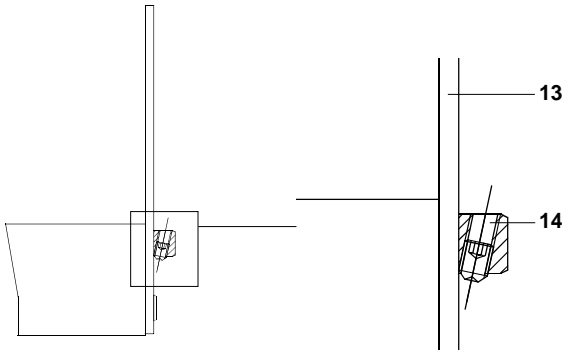


Fig. 6 Changing the blade

- Loosen the pin (14).
- Remove the blade (13).
- Insert a new blade.
- Tighten the pin (14).
- Insert the matrix (11), slide it against the blade and tighten the screw (12).
- Mount the cover. Use the tool including in the contents of delivery.



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EU-Conformity Declaration

Herewith we declare that the following described machine, from the design and style and as we sell it, comply with the relevant EU Safety and Health Requirements.
This declaration will lose the validity if there are any changes of the machine or the purpose without our consent.

Description
Strip Separator

Type
HEKTOR 4

Applied EU-Regulations and Norms

- | | |
|---|--------------------|
| - EC-Machinery Directive | 98/37/EU |
| - Safety of machines | EN 292 - 2 : 1991 |
| - Safety distances | EN 294 : 1992 - 08 |
| - EC-Low-Voltage Directive | 73/23/EEC |
| - EC Electromagnetic Compatibility Directive | 89/336/EEC |
| - Immunity from noise or disturbance
commercial area as well small enterprises | EN 55024 : 1998 |
| - Elimination of radio interferences of electrical
production facilities and installations | EN 55014 : 1993 |

Signature for the producer :

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und Automationsbausteine mbH
99610 Sömmerda

Sömmerda, 10.10.01

Erwin Fascher
Geschäftsführer



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Technische Änderungen vorbehalten

In accordance with our policy of continual product improvement, we reserve the right to alter specifications without notice

Données technique modifiables sans préavis