

# PEMATECH



**HIGH-FLEX**  
DEPANELING MACHINE  
ONE FOR ALL!

# Flexible depaneling HIGH-FLEX

## flexibel - reliable - cost efficient

The flexible depaneling machine High-Flex offers you the flexibility you need for a large number of variants or for the production of small and medium-sized series.

Thanks to the well thought-out concept of the High-Flex, with its innovative gripper system, PCB panels are separated quickly, with little stress and with high precision. The depaneling is performed by a milling system using an end mill, so that any contours can be separated.

To be able to process product variants, no complex and expensive change parts are required - the right gripper is enough! In this way, you keep the costs for change parts as low as possible with the High-Flex!



## Separated and it goes on...



### Integrate a follow-up process right away!

The High-Flex depaneling system offers you the option of integrating a follow-up process such as joining in a housing or simple testing tasks within the cell directly after the depaneling process - this reduces the system footprint, lowers investment costs and increases flexibility even further!

The High-Flex depaneling machine can be used „inline“, in other words, within a plant network. Together with a loading and unloading process, the High-Flex depaneling device can also be used in stand-alone operation.

## Technical data



### Dimensions

1500 x 1950 x 1950 mm

### Safety control

Siemens PLC

### Power supply

400 V/AC, 50/60 Hz  
6,5 - 8 bar oil-free and  
filtered compressed air

### Feeding

Conveyor belt  
and fast feed pusher

### Separation accuracy

+/- 0,12 mm depending on  
and Pcb panels and centering  
holes

## Short set-up times - fast production



The automatic adjustment of the transport width and the simple change of the gripper suitable for every product, enables the separation of different panels with very short set-up times. As an option, the gripper can also be changed automatically by integrating a gripper station.

## Options

- Unloading option: belt conveyor, goods carrier circulation, shuttle, palletizer, turntable
- Barcode scanner
- Suction gripper, parallel gripper or servo gripper
- gripper station for automatic change of different grippers
- Position correction by camera system
- MES interface
- SMEMA interface



## Features

- Dust extraction with ionization
- Automatic transport width adjustment
- Energy-efficient servo drives with low-maintenance axes
- Can be used inline in production lines or as stand-alone operation with loading and unloading process
- Tool management, such as autom. end mil change, breakage control and height control
- Setup control by coded change parts
- Remote maintenance
- CAD data import

## Advantages

- Low change part costs
- Short set-up times
- Any contours can be cut
- Low-stress cutting process
- Follow-on process can be integrated directly

## Milling module

**Diameter end mil cutter**  
0,8 - 3,0 mm

**Spindle speed**  
20000 - 80000 U/min.

**Cutting speed**  
20 - 45 mm/s

**Height adjustment**  
Up to 3 steps

**Ionization**  
For dust reduction

## Printed circuit board specification

**Dimensions**  
max. 400 x 300 mm (L x W)

**Material thickness**  
0,5 - 3,2 mm

**Component height**  
Cutter side approx. 8 mm  
Gripper side approx. 70 mm

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