



American Hakko Products, Inc.

# PRODUCT BULLETIN

**Bulletin No:** PB450  
**Issue Date:** 9-1-2020  
**Effective Date:** 9-1-2020

**Description/Title:**  
New CHP DPF-300 Depaneling System

**Part No:**  
DPF-300-E



**Specification:**

Part No.	DPF-300-E
Dimensions	64 X 70 X 95 cm (25 X 28 X 37 in)
Clearance	164 X 170 cm (65 X 67 in)
Weight	73 kg (161 lbs)
Voltage	115V/60Hz
Power	1 kW
Motor spindle power	0.27 kW
Micro-spindle Speed	24,000 RPM
Noise Level	80 dB(A) ± 3 dB(A) measured at the operator position. Test FR4 thck.1.6 mm / cutter 2 mm
Vibrations	< 2.5 m/s <sup>2</sup> Test FR4 thck.1.6 mm / cutter 2 mm
Storing temperature	-10°C to 50°C (14°F to 122°F)
Working temperature	5°C to 35°C (41°F to 95°F)
Interchangeable Guide Material	Hardened ground steel
ESD Safe	Yes
Safety Approval	

Specifications continued on Page 2

**PCB Characteristics**

Thickness	Max. 4 mm
Slot Length	Min. 11 mm
Slot Width	1.5 - 2.5 mm
Slot Width Tolerance	0 / -0.02 mm
Isthmus Distance From Components	Min. 0.8 mm
PCB Material	FR4/CCL/CEM/Aluminum*

\* For aluminum depaneling, contact American Hakko Products, Inc. for milling bit specifications



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***Specifications (continued):***

**Interchangeable guide and milling bit sizes:**

- 1.5mm
- 1.6mm
- 1.8mm
- 1.9mm
- 2.0mm
- 2.1mm
- 2.2mm
- 2.3mm
- 2.4mm
- 2.5mm

***Comments:***

The CHP DPF-300 Depaneling System is a direct upgrade from the popular CHP DPF-200. The DPF-300 adapts all the benefits of DPF-200, and the system is now equipped with an industrial type electrical motor spindle, eliminating the need for compressed air.

When using a standard blades or manual tools to cut the PCBs from an array on a panel, stress often breaks or tears the PCB tab. The DPF-300 milling cutter cuts the tab with the same quality as an expensive automated system but at a much lower cost.

The shape of the interchangeable guide assists the operator to safely place and maneuver the PCBs until the cut is completed. This prevents damage to the PCB should the operator insert the wrong size guide that does not match perfectly with the geometry and size of the panel's slot. A powerful vacuum pump located at the guide, removes the PCB dust from the work area for a clean and healthy work environment.

The table is made of steel with a laminated ESD safe tabletop to protect against electrostatic discharge. The table's steel construction provides a sturdy and stable working platform, and the high speed precision spindle operates with minimum vibration. ESD safe zinc coated steel front feet and heavy duty rear casters make the system easy to move to another location.

For more information, please visit [www.HakkoUSA.com](http://www.HakkoUSA.com), e-mail [Support@HakkoUSA.com](mailto:Support@HakkoUSA.com), or call 1-800-88-HAKKO (42556).