

80Plus GIGA/IoN

Multipurpose Strip Type Plasma System



Datasheet

Plasma Excellence

The Plasma System 80Plus is a low-pressure plasma system for cleaning advanced chip and wafer level packages prior to die attach, wire bond and encapsulation. The system is easy to operate and can be configured for left side load & unload, as well as left side load / right side unload. The software complies to the standards in semiconductor industry. Due to a very short process time the system can be integrated into fully automated lines.



Configuration

The Plasma System 80Plus can be configured in two source configurations.

80Plus IoN with RF 13.56 MHz application, allowing for physical surface treatment via ion bombardement.

80Plus GIGA with Microwave 2.45 GHz application, allowing for a largely extended plasma producing free radicals, delivering fast, low temperature and damage free chemical surface treatment.

Technical Data

Frequency	GIGA 2.45 GHz / IoN 13.56 MHz	Uptime	>95%
Power	0-600 W	MTBF / MTTR	>500 h / <2 h
Electrical conn.	230 V three-phases, 15 A 50/60 Hz for system & pump	System control	PC based 10,4" color touch screen real-time operating system Manual or automatic operation Graphical user interface (SEMI E95) User password levels Recipe management Self test routines, alarm messages
Vacuum chamber	Aluminum 330 x 370 mm (Option: 490 x 372 mm) DN 40 ISO K vacuum connection		
Dimensions (w/h/d)	Approx. 1,200 x 2,000 x 1,500 mm	Process tracking	PC based 10,4" color monitor function key control real-time operating system Manual or automatic operation Graphical user interface (SEMI E95) User password levels Recipe management Self test routines, alarm messages
Weight	600 kg / 150 kg (system / pump)		
Base pressure	1 x 10 ⁻² mbar		
Process pressure	0.01 - 2 mbar 2 gas channels (2 optional) each with MFC and solenoid valve 1/4" Swagelok connector 1-2 bar input	Interfaces	Real time monitoring, data logging On-screen display of data plots Export of process data
Vacuum gauge	10 ⁻² - 10 mbar, Capacitance	Options	Ethernet, USB, RS232
Venting	Solenoid valve		
Compressed air	Festo DN 6, 4-6 bar input		