TruPlasma RF Series 1000

Stable processes for maximum productivity and best in class wafer results

Features

- Arc Management
- Smart Auto Frequency Tuning
- Best in class wall-plug efficiency of > 80 %
- Highest accuracy and stability down to 1 W
- Patented CombineLine Technology with true 50 Ω impedance

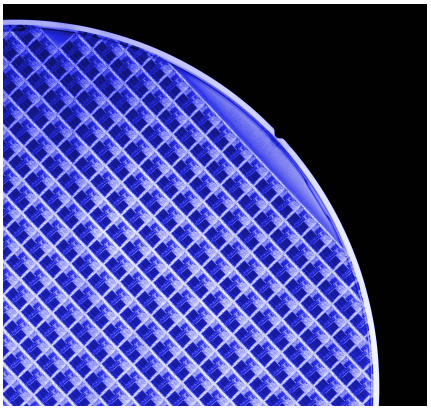
Applications

Semiconductor Applications

- Chemical Vapor Deposition (CVD)
- Plasma Enhanced CVD Processes
- Atomic Layer Deposition
- Atomic Layer Etch
- Reactive Ion Etching
- Etching Applications

Industrial Coating Applications

- Tool Coating
- Hard Coating
- Decorative Coating



Benefits

	Flexible adaption to the process
	Extremely efficient and cost effective
	Stable process power for best productivity and reproducability
	Substantial contribution to process homogenity and highest uptime

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Technical data

RF output	TruPlasma RF 1000-2/13	TruPlasma RF 1000-3/13
Output power	2 kW	3 kW
Rated power	2 kW	3 kW
Nominal load impedance	50 Ω	50 Ω
Output frequency	13.56 MHz	13.56 MHz
Networking connection data		
Line voltage	200 – 480 V	200 – 480 V
Line frequency	50 – 60 Hz	50 – 60 Hz
Line input power	3.1 kVA	4.1 kVA
Power factor	0.95	0.95
Communication interfaces		
Sync interfaces	yes	yes
Analog / digital	yes	yes
RS 232 / RS 485	yes	yes
Profibus	yes (optional)	yes (optional)
EtherCAT	yes (optional)	yes (optional)
DeviceNet	yes (optional)	yes (optional)
Housing		
Weight	18 kg	18 kg
IP protection class	30	30
Cooling requirements		
Maximum water pressure	7 bar	7 bar
Minimum pressure difference	1.1 bar	1.1 bar
Minimum flow rate	4 l/min	4 l/min
Coolant temperature	5 °C – 35 °C	5 °C – 35 °C
General		
Overall efficiency	80 %	80 %
Certificates / standards	UL, CE, RoHs, NRTL	UL, CE, RoHs, NRTL
Ambient conditions		
Outside temperature	5 °C – 40 °C	5 °C – 40 °C
Humidity	5 % – 85 %	5 % – 85 %
Barometric pressure	79.5 kPa – 106 kPa	79.5 kPa – 106 kPa

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