

Overview Plasma Jets

Plasma Jet / Type	PFW10	PFW20	RD1004	RD2004	RD2005	RD1010
						
System	Single jet	Single jet	Single jet, rotating jet front	Single jet, rotating jet front	Rotating unit with two Plasma jets	Rotating unit with two Plasma jets
Treatment width	depending on material and distance 4 to 20 mm	depending on material and distance 4 to 20 mm	depending on material and distance up to 50 mm	depending on material and distance up to 50 mm	depending on material and distance up to 50 mm	depending on material and distance up to 100 mm
Relativ speed to surface	Up to 900 m/min	Up to 600 m/min	Approx. 22 m/min with a treatment width of 40 mm	Approx. 22 m/min with a treatment width of 40 mm	Up to 50 m/min	Up to 30 m/min opt. up to 50 m/min
Effective treatment distance between jet head and substrate	Between 5 and 25 mm	Between 5 and 15 mm	Between 4 and 15 mm	Between 4 and 15 mm	Between 5 and 20 mm	Between 5 and 20 mm
Weight	<1 kg	0,6 kg	4,2 kg	1,8 kg	4,9 kg	27 kg, with contact protection 38 kg
Working gas (oil and water free compressed air)	Approx. 2.000 Nl/h	Approx. 2.000 Nl/h	Approx. 2.500 Nl/h	Approx. 2.500 Nl/h	Approx. 4.000 Nl/h	Approx. 4.000 Nl/h
Working frequency	19 – 25 kHz	19 – 25 kHz	19 – 25 kHz	19 – 25 kHz	19 – 25 kHz	19 – 25 kHz
Electrode voltage	3 – 5 kV	3 – 5 kV	3 – 5 kV	3 – 5 kV	3 – 5 kV	3 – 5 kV
Optional	Connection of the supply cables at 90° angle (Version R)	Connection of the supply cables at 90° angle (Version R)	Connection of the supply cables at 90° angle (Version R)	Connection of the supply cables at 90° angle (Version R), Plasma jet upgrade for handheld use	Free operating jets for inline-systems integration	Version with treatment width 80 mm

Overview Generators 5000 Series

Generator-Serie	FG5001	FG5001S	FG5002S / FG5005S
			
System	Serial double resonance principle, Short-circuit-proof	Serial double resonance principle, Short-circuit-proof	Serial double resonance principle, Short-circuit-proof
Input Voltage	Wide range voltage 100 – 260 V, 50 – 60 Hz (+/-5%)	Wide range voltage 100 – 260 V, 50 – 60 Hz (+/-5%)	Wide range voltage 360 – 510 V, 50-60Hz (+/-5%)
Total Output	1 kVA	1 kVA	FG5002S: 2 kVA; FG5005S: 5 kVA
Output Voltage	approx. 1.000 Vss	approx. 1.000 Vss	approx. 1.000 Vss
Temperature range	0 °C up to +40 °C	0 °C up to +40 °C	0 °C up to +40 °C
Casing dimensions (WxHxD)	590 x 519 x 277 mm side or optional front side operation	580 x 480 x 280 mm	660 (incl. connectors) x 1600 x 580 mm
Weight	26 kg	26 kg	FG5002S: 143 kg FG5005S: 147 kg
Color	RAL Design white	RAL Design white	RAL Design white
Connectable Plasma Jets	2 pieces PFW10; PFW20 or 2 pieces RD1004; RD2004 each with Y-box or 1 piece RD2005	2 pieces PFW10; PFW20 or 2 pieces RD1004; RD2004 each with Y-Box or 1 piece RD2005	FG5002S: 4 pieces PFW10; PFW20, RD1004, RD2004 or 2 pieces RD1010; RD2005 FG5005S: 8 pieces PFW10; PFW20, RD1004, RD2004 or 4 pieces RD1010; RD2005
Display	Plastic foil keyboard, optional mounted on front side	Touch screen control panel, colored, optional external control panel	Touch-screen panel
Process control function (partially optional)	Input air pressure Light conductor control Rotation control	Voltage, current, air pressure at nozzle, fiber optics monitoring, rotation control, comprehensive process diagnostics incl. histogram	Voltage, Power, Air pressure at the jet, Light conductor control, Rotation control, extensive process diagnostic incl. histogram
Optional mobile	No	No	Yes