

Product information

PlasmaPen PP 1011

Compact atmospheric pressure plasma source for surface treatment



Product description

Plasma as a cross-sectional technology in many industry branches, but also in research laboratories, is an indispensable tool in surface treatment. Plasma technology is used everywhere where quality, productivity, environmental sustainability, precision and flexibility is important.

Surfaces are cleaned, activated and decontaminated at atmospheric pressure with the handy PP 1011. The device is particularly used for surface treatment of temperature-sensitive materials as, for instance, plastics. In addition, PP 1011 provides you an easy access to geometric challen-

ging surfaces such as narrow clefts, capillaries or subtlest bores.

The PP 1011 base model is argon-powered. The admixture of reducing or oxidizing gases can be done up to the percentage range. Furthermore, the device is convertible through the simple change of its electrode head to operate with molecular gases like air or nitrogen.

PlasmaPen PP1011 features

- compact and mobile
- easy handling
- wide application spectrum
 - o activation
 - o fine cleaning
 - o decontamination
- treatment of
 - o temperature-sensitive materials
 - o sophisticated geometric shapes
 - o hard-to-get-at locations
- precise and point-by-point operation
- powered by noble and molecular gases
- easy process integration

general	
description	compact atmospheric pressure plasma source for surface treatment
dimensions handheld	180 mm, Ø 20 mm (1.50 m connector cable)
weight handheld	170 g
protection category	IP30
dimensions base unit	105 x 180 x 330 mm (H x W x D)
weight base unit	4 kg
protection category base unit	IP40
power supply	110 - 230 VAC, 50/60 Hz
power consumption	<50 Watt at 230 VAC - 50 Hz
transport and storage conditions	
temperature	-40 °C - +70 °C
rel. humidity	10 % - 100 %
working conditions	
temperature	+15 °C - +40 °C
rel. humidity	15 % - 75 %
air pressure	800 hPa - 1060 hPa
plasma source	
process gases	Argon*
	*other gases and mixtures on request
gas flow	3-8 litre per minute*
	*built-in flow indicator with safety shutdown
inlet pressure	2 – 3 bar absolute
gas temperature	<60°C
scope of delivery	
Werner Wirth atmospheric pressure discharge base unit incl. handheld	
electrode head (preinstalled)	
power cable	

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