



Effective plasma device for manual use

The PiezoBrush has been developed as a compact plasma handheld device for use in laboratories, pre-development and assembly of small series. The Piezoelectric Direct Discharge (PDD[®]) technology is used to generate cold active plasma with a temperature of less than 50°C. The core of this handheld plasma device is the TDK CeraPlas[™] piezo plasma generator – a high-voltage discharge device for generating cold atmospheric pressure plasma. Plasma is used for a highly efficient increase of surface energy on many materials as well as for germ and odour reduction.

Fields of application

- ♦ Joining technology
- Oevelopment and optimization of production processes
- Research facilities and laboratories
- A Microbiology, microfluidics and food technology
- Medical and dental technology
- Prototyping, architecture model making
- ♦ Small batch production

Possible usecases

- Activation and functionalization of surfaces of miscellaneous materials
- ♦ Improved wettability
- Optimization of bonding, varnishing, printing and coating processes
- Surface treatment of plastics, glasses, ceramics, semiconductors and natural fibres
- ♦ Ultra-fine cleaning and odour reduction

PiezoBrush PZ2

Handheld device with power supply and changeable nozzles



No process control available 110-240 V / 50-60 Hz 15 V DC max. 30 W 170 g 57 dB < 50 °C 4 cm²/s 2 - 10 mm 20 mm Standard, Nearfield, Multigas / Needle Argon, helium and nitrogen Process control Electrical connection Power consumption Weight Sound level Plasma temperature Treatment speed Typical treatment distance Max. treatment width Modules **PiezoBrush PZ3** Handheld device with power supply and



Stopwatch, Countdown, Metronome 110-240 V / 50-60 Hz 24 V DC max. 15 W 110 g 45 dB < 50 °C 5 cm²/s 2 - 10 mm 29 mm Standard, Nearfield, Mutigas

Operation mode with inerte gas Argon, helium and nitrogen



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