

# piezo brush®

# 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
- Development and optimization of production processes
- Research facilities and laboratories
- 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





#### piezobrush® PZ3

Handheld device with power supply and changeable piezo module



No process control available 110-240 V / 50-60 Hz 15 V DC

> max. 30 W 170 q

57 dB

< 50 °C

 $4 \text{ cm}^2/\text{s}$ 

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 Operation mode with inerte gas available Q1/2021

Stopwatch, Countdown, Metronome 110-240 V / 50-60 Hz 24 V DC

max. 15 W

110 g

45 dB

< 50 °C 5 cm<sup>2</sup>/s

2 - 10 mm

29 mm

Standard, Nearfield (add. modules Q1/2021)



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