



piezo brush®

Innovative and compact plasma solution for integration into production lines

The piezobrush® PZ3-i as a successor version of the piezobrush® PZ2-i has been specially developed for integration into production lines. The cold plasma device enables easy handling and comprehensive process control. Compared to conventional plasma jet systems, the piezobrush® PZ3-i was designed to be particularly energy-efficient.

Applications

- ◇ Inkjet, marking and pad printing
- ◇ Dispensing technology, e.g. for housing bonding
- ◇ Adhesive bonding and labelling applications in laboratory and medical technology
- ◇ Laminating processes, e.g. in packaging technology
- ◇ Optimization of bonding processes
- ◇ Targeted improvement of wettability
- ◇ Alternative to chemical primers, flame treatment processes, chemical and mechanical roughening
- ◇ Microbiology, microfluid and food technology

piezobrush® PZ2-i

Integration device with exchangeable nozzles



piezobrush® PZ3-i

Compact integration device with exchangeable piezo modules



15 V DC	Electrical connection	24 V DC
36 x 228 x 51 mm	Size	40 x 157 x 71 mm
180 g (plastic housing)	Weight	380 g (industrial metal housing)
< 50 °C	Plasma gas temperature	< 50 °C
Not possible	Process control	Communication interface, status monitoring
10 - 50 mm/s	Typical treatment speed	1 - 15 mm/s (fine cleaning), 10 - 150 mm/s (bonding), 100 - 1500 mm/s (printing)
2 - 5 mm	Typical treatment distance	2 - 10 mm
5 - 20 mm	Typical treatment width	5 - 29 mm (compressed air), up to 50 mm (nitrogen), modularly expandable
65 m ² /kWh	Activation efficiency	90 m ² /kWh
Standard, Nearfield, special nozzles	Modules	Standard, Nearfield, further module development
Not adjustable	Module position	Individually and independently adjustable
Compressed dry air, nitrogen, other gas types on request	Process gas	Compressed dry air, nitrogen, other gas types on request



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