Application-optimised nozzles

plasmabrush PB3

Nozzles for PlasmaBrush PB3

There are three different nozzles for the PlasmaBrush PB3 system. All nozzles are optimised for individual processes, but can be used for all geometries and materials (conductive / non-conductive).

Nozzle type	Nozzle A 250	Nozzle A 350	Nozzle A 450
			
Field of application			
Area of application	Surface cleaning and surface activation		
Electrical potential	**low**	**medium**	**high**
Temperature property	Temperature-sensitive processes	Low temperature input	Temperature treatment
Field of application	Precise applications	Standard applications	Highspeed applications
Operating mode	Diffuse mode	Mainly diffuse mode	Transferred arc possible
Main application	Electronic components	Treatment of plastics	Cathodic cleaning and paint removal
Treatment parameter			
Permitted gases	Air, nitrogen, forming gas 95/5		
Gas flow	35 - 40 L/min	35 - 55 L/min	40 - 60 L/min
Typical treatment distance*	5 - 35 mm	5 - 30 mm	5 - 30 mm
Typical activation width	5 - 15 mm	5 - 20 mm	10 - 25 mm
Lifetime ** • Operation with compressed air • Operation with nitrogen	 > 200h > 500h	 > 500h > 1000h	 > 500h > 1000h

* When using compressed air

** No guarantee can be given for the lifetime of the nozzles, as this depends significantly on the integration situation and application. The lifetime depends on factors such as duty cycle, degree of contamination, process gas, treated material, performance or working distance.

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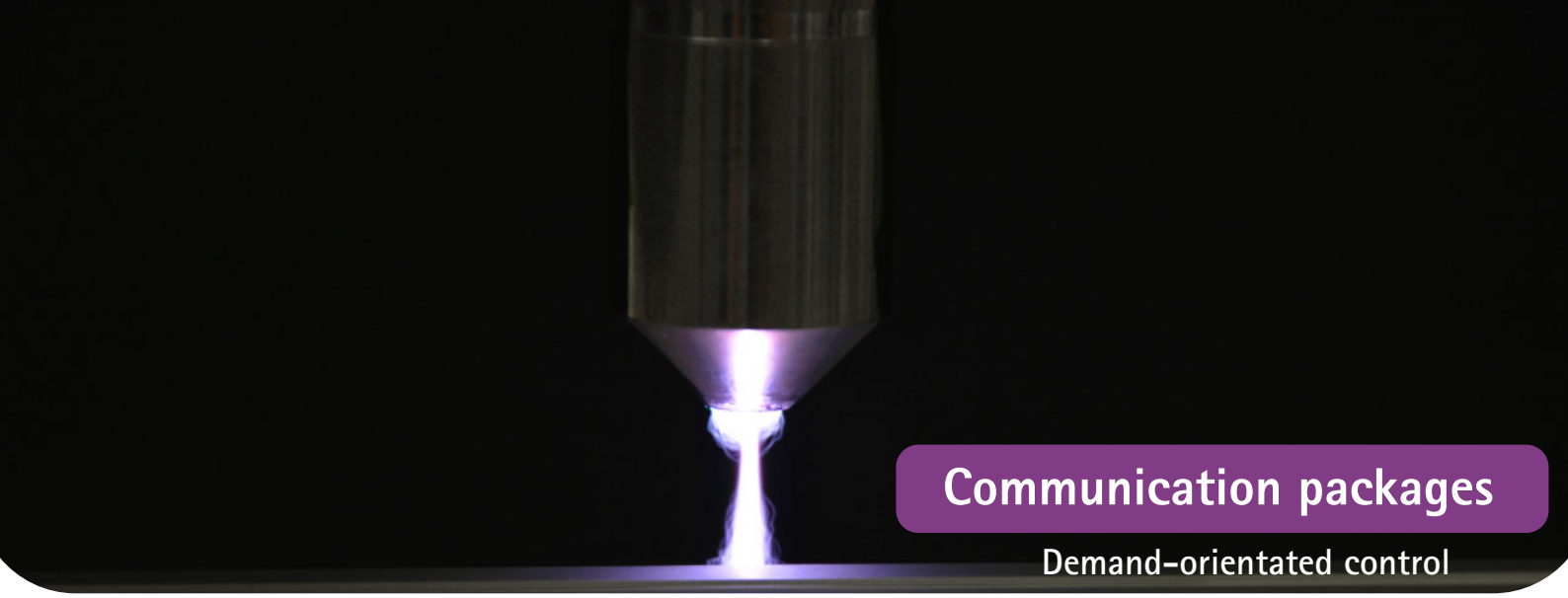


Communication packages

Demand-orientated control

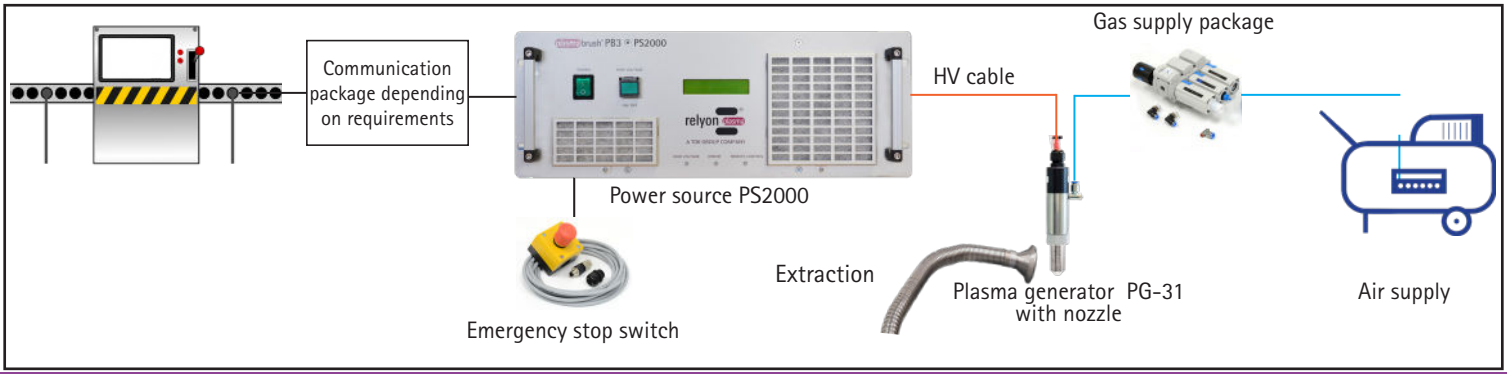
plasmabrush PB3

Communication packages for PlasmaBrush PB3

Generally, the PlasmaBrush PB3 system can be controlled manually via the integrated toggle switch of the power source PS 2000 or by using a communication package. There are four alternatives to choose from.

Communication package Digital I/O	Communication package USB	Communication package CAN	Communication package ProfiNET
			
The communication package Digital I/O enables control via simple I/O signals. The CAN Open signals of the power source PS2000 are converted into simple I/O signals. This is the easiest way to integrate it into your existing automation and system control.	The communication package USB enables the plasma operating parameters to be controlled and displayed via the PC and the specially developed 'plasma control' software. This is suitable for use in laboratories and as a test environment, as no integration into an existing system is necessary.	The communication package CAN enables the control and display of all plasma operating parameters from your PLC. Different PLCs can be utilised for process control. This is the most common type of communication and therefore the ideal solution for your own complete integration.	The communication package ProfiNet enables the control and display of all plasma operating parameters from your PLC. The plasma system is controlled via your existing ProfiNet network. This is the most modern type of communication and the ideal solution for your own complete integration.

Setup



relyon plasma GmbH
A TDK Group Company
Osterhofener Straße 6
93055 Regensburg - Germany

Tel.: +49 941 60098-0
Fax: +49 941 60098-100
www.relyon-plasma.com
info-relyon@tdk.com