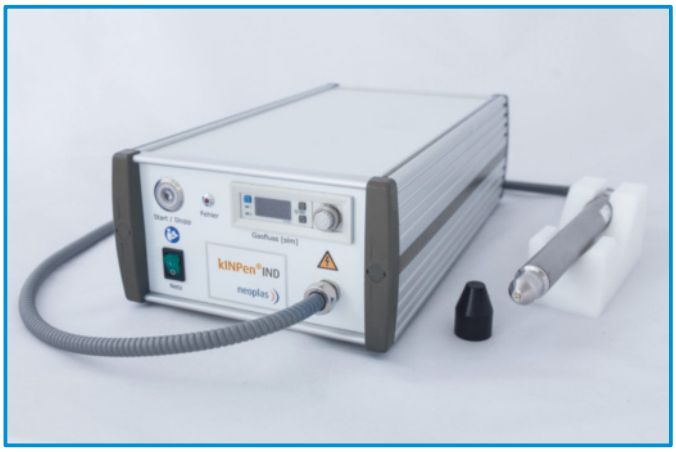
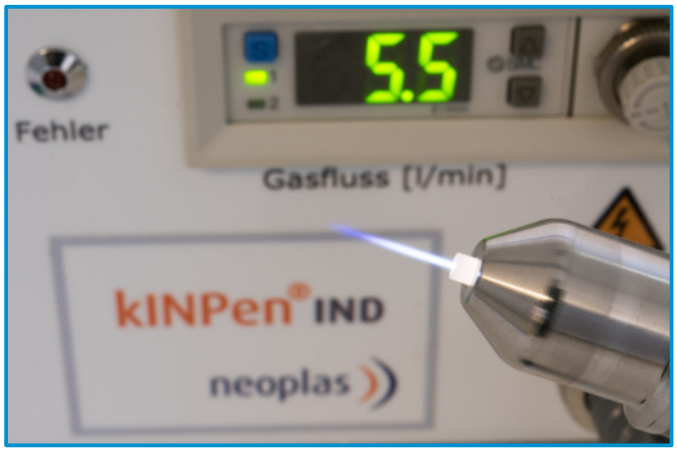
neoplas control

solutions for your operations in gases and plasmas

kINPen® IND

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 kINPen ® . The device is particularly used for surface treatment of temperature-sensitive materials as, for instance, plastics. In addition, kINPen ® provides you an easy access to geometric challenging surfaces such as narrow clefts, capillaries or subtlest bores. The kINPen ® 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.





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 handheld	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 W at 230 V, 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

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

- kINPen ® base unit incl. handheld
- electrode head (preinstalled)
- line cord

kINPen ® features

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

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