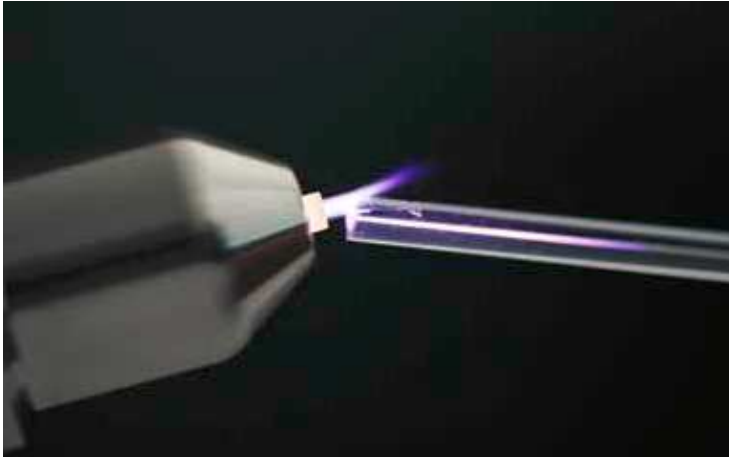


kINPen®

atmospheric pressure discharge



technical specification

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.

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

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 |
|--|---|

