ion**POWDER**

Low-pressure system equipped with ion implantation technologies dedicated to the treatment of powders and loose parts

The ionPOWDER equipment allows powders surface treatment with a double low-pressure technology: Ion implantation with our ionGUN 2000, which allows to reach new and enhanced surface properties.



| TECHNICAL DATA | |
|---------------------------|--|
| Power supply | General power: 400 V / 32 A Frequency: 10 GHz / 50 W Power: up to 600 W Ion energy: up to 40 kV Ion current: up to 15 mA |
| Vacuum pressure | 10 ⁻⁶ mbar |
| Number of ionGUN's used | 1 |
| Substrat size | From a few microns to a few centimeters |
| Processing capacity | Batches up to 500 ml |
| Dimensions of the machine | L2600xW900xH2500 mm |
| Weight | 750 kg |
| Water cooling system | Yes – demineralized water |

Features

- Coating sources: ion implantation PVD also available on request
- Fully integrated automated control system
- Any gas can be used: Ar, He, N₂, O₂, SiH₄ as well as mixtures

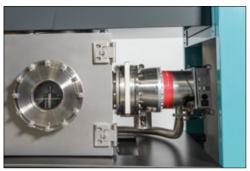
Option

1 circular PVD cathode (2-inch / 51 mm) + Power supply









Applications

▲ On powders/diamonds

On fibers

▲ On loose parts/balls

Powder modification for AM, 3D printing, catalysts, injection molding and sintering process, thermal spraying,...

Fibers treatment for composites, filtration, GO polymers and batteries.

Loose parts treatment for new surface functionalities and enhanced durability.

The innovation is supported by the Walloon Region through the WALIBEAM project which gathers major industrial actors in the fields of surface treatment of glass, metal and polymer.

