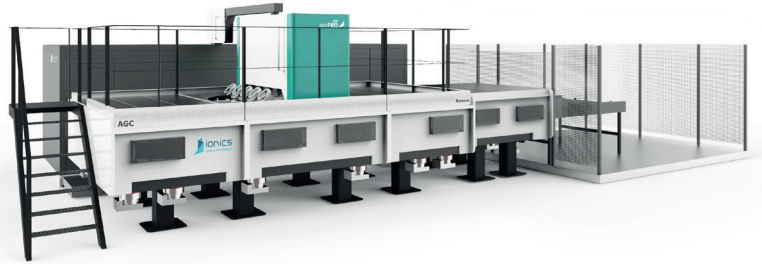


ionPRO¹⁸⁰⁰

Ion implantation industrial line dedicated to the treatment of large surfaces



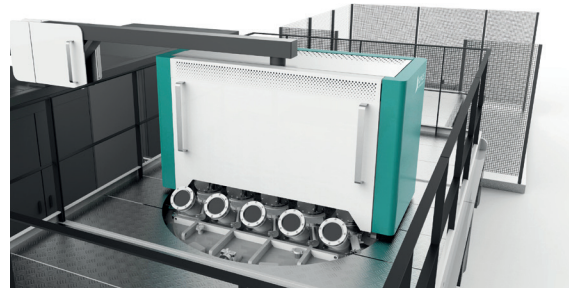
The ionPRO1800™ industrial line is dedicated to the treatment of large flat parts with the innovative ion implantation technology. Five ionGUN2000™ arranged in line ensure the efficiency and homogeneity of the ion implantation treatment. The lock chamber is composed of two loading plates allowing a continuous treatment in the process chamber. The area to be treated could be as large as 1600x1800 mm which will be mounted on a specific conveyor allowing the displacement up to 150 mm/s.

TECHNICAL DATA	
Power supply	General power: 400V / 125 A
ionGUN power supply	Per implanter: <ul style="list-style-type: none"> • 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 ⁻⁷ mbar in MAP* / 10 ⁻⁶ mbar in chamber
Number of ionGUNS (sans le used)	5
Substrate size	1800x1600x75 mm (Max 200 kg)
Processing capacity	Semi-continuous process or batch processes
Dimensions of the machine	L13000xW7500xH3000 mm
Weight	18000 kg
Water cooling system	Yes – 1 demineralized water and 1 regular water

* MAP : Micro-Accelerator of Particles

Features

- ▲ Surface treatment technology : ion implantation.
- ▲ XY table of 1700x1900 mm available.
- ▲ Load-lock chamber allowing semi-continuous treatment.
- ▲ Fully integrated control system with intuitive HMI.
- ▲ Any gas can be used: Ar, He, N₂, O₂, as well as mixtures.



Applications

▲ Mechanical

- ▲ Enhanced hardness
- ▲ Corrosion resistance
- ▲ Friction coefficient

▲ Decoration

- ▲ Anti-scratch
- ▲ Colored finish
- ▲ Anti-reflective

▲ Biomedical

- ▲ Biocompatibility
- ▲ Antibacterial
- ▲ Blocking metal diffusion

Treated materials are metals, ceramics, polymers and elastomers, glass, sapphire, cermets, textiles, carbon fibers,...

(26038)