Innovative surface technologies
Tailored and innovative solutions
Training
Jobcoating
Equipment supplier
**IONICS VACUUM SYSTEMS**

**ionGUN**

Industrial ion implantation technology for surface enhanced performances

**Benefits**
- Physical cold processes
- Enhance surface properties without any coatings
- One technology for any materials
- No dimensional modification
- Environment friendly process
- Cheap operating costs

**Features**
- Localised surface treatment Ø 100 mm
- Surface modification up to 5 µm
- Compact and robust design for industrial requirements
- Plug and play system on low pressure chamber
- Any gases: Ar, He, N₂, O₂, SiH₄

**Options**
- Charges neutralizer for insulating materials
- Additional pumping unit
- Full automated and integrated systems on demand

**TECHNICAL DATA**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>High frequency power supply</td>
<td>10GHz / 50W</td>
</tr>
<tr>
<td>High voltage power supply</td>
<td>Power: up to 600W</td>
</tr>
<tr>
<td></td>
<td>Extraction voltage: up to 40 kV</td>
</tr>
<tr>
<td></td>
<td>Ion current: up to 15 mA</td>
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<tr>
<td>Gas flow</td>
<td>From 10 to 200 μl/min</td>
</tr>
<tr>
<td>Vacumm chamber level</td>
<td>Below 3e⁻⁶ mBar</td>
</tr>
<tr>
<td>Connection</td>
<td>160 Ø flange</td>
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<tr>
<td>Water cooling system</td>
<td>yes</td>
</tr>
</tbody>
</table>

IONICS equips the following machines with the ionGUN technology: ionLAB, ionPRO and ionPOWDER.
**plameco**
Low-pressure plasma PVD coater for powders, fibers and loose parts

**ionLAB**
Low pressure system equipped with ion implantation and plasma PVD technologies for flat or 3D parts treatment

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

**ionPRO**
Ion implantation industrial line dedicated to the treatment of large surfaces
SMART surfaces

IONICS develops and supplies new surface technologies for metal, glass and other substrates: plasma, ion implantation, nanocoatings and electroplating treatment. Our customers capitalize on our innovative technologies and responsive service. Our product portfolio finds use in various industries: automotive, architecture, household appliances, telecommunication, electronics, life science,…

Our vision is to be a leading company in functionalized surface treatments, enabling our customers to explore new product applications by using our smart surface solutions and technologies.

Our values are integrity, cultural diversity and respect for the environment. We are committed to excellence, innovation, service and delivering tomorrow’s answers today.
IONICS is certified ISO 9001 and IATF 16949.

Partners

IONICS is certified ISO 9001 and IATF 16949.