Vacuum That Creates

Izovac Beam Cleaning System (IBCS)

with Power Supply IPS-C 5K

Product description:

Izovac Beam Cleaning System is designed to ensure accurate removal of low molecular weight materials (LMWM), like absorbed gases, water, and organic fragments from the substrate, and to facilitate activation of the surface molecular and atom bonds of the processed substrate. The cleaning process is performed in the vacuum chamber prior to the deposition process and guarantees excellent adhesion of the first deposited layer to the substrate's surface.

Key features and advantages:

- Operation with noble gases (Ar, He, Ne), active gases (O_2, N_2, CF_x, C_xH_y etc.) and their mixtures;
- Cleaning process is performed with uniformity of not worse than ±5%;
- Reliable continuous operation;
  Pressure in vacuum chamber during cleaning process - 10^{-3} -10^{0} Pa;
- Simple and reliable installation in the in in-line or batch type vacuum equipment;
- Opportunity to clean the substrate at different angles (10^{o}-90^{o});
- High speed of cleaning;
- Guaranteed adhesion without special sub-layers;
- Various types of the substrates (metals, semiconductors, dielectrics, polymers);
- Scalable design.

Applications

Izovac Beam Cleaning System offers accurate and effective surface preparation for:

- Large area coating for FPD production;
- Large area coating for architectural glass;
- Microelectronic silicon chip manufacturing;
- Optics and lasers;
- Optoelectronics and telecommunications.

Technical Characteristics

Ion source type	ion accelerator with anode layer
Linear beam length	according to the customer's request
Angle to the substrate	adjustable 0 - 60?
Ion energy (max)	400 - 2500 eV
Anode voltage	from 0.7 to 5 kV
Discharge Current (collimated moed)	4,2 mA/sm slit
Ion Current	1,1 - 1,3 Discharge current
Working gases	Ar, He, Ne, O2, N2, CFx, CxHy and other gases and gas mixtures non-reactive with the

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