



IZOVAC Ltd

**EXCLUSIVE THIN FILM TECHNOLOGIES**

Equipment: Aspira 150

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Izovac presents ASPIRA – 150. Imagine a vacuum equipment allowing to sputter up to 6 different materials within one cycle.

Imagine you can conduct full-fledged study of materials obtained by ion-beam or magnetron sputtering, losing no time for readjustment and pumping.

Imagine that the only thing you need to do is just install a programme of a complex material sputtering, and the system itself will sputter required number of layers, measure their optical characteristics and stop the process upon its completion.

Imagine that since now on your knowledge will find its proper use – you not only know what coating should be obtained, but you can do it.

Imagine that the vacuum system has character. The character of the real professional and expert. **Your character.**

## THE NOVEL GENERATION OF VACUUM SPUTTERING SYSTEMS

# ASPIRA 150

The IZOVAC company presents a vacuum sputtering system Aspira 150, which is fundamentally new in design, characteristics and performance, and has been developed to obtain highly stable and precise optical coatings. The Aspira 150 vacuum system is equipped with ion-beam and magnetron sputtering technologies, combination of which allows to solve optical problems with most stringent requirements for sputtering precision, defect density, repetition and long-term coatings' stability.

### Types of coatings:

- Laser coatings
- Highly reflective mirrors
- Multi wave beam splitters
- Conductive coatings

### Design features:

- up to 6 different target materials
- combination of ion-beam and magnetron sputtering
- ion beam cleaning
- load-lock system
- built-in optical control of substrates
- sputtering zone 150 mm

See us at hole B2 booth No 151 more information at  
[www.izovac.com](http://www.izovac.com)



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**THE MAIN CHARACTERISTICS OF THE ASPIRA 150 VACUUM SYSTEM**

Maximum sputtering zone	50 mm in diameter
Type of substrate	Quartz, glass, sapphire, silicon, germanium
Achievable uniformity of coating thickness	+/- 0.4%
Sputtering system	Ion-beam sputtering source with ion charge compensator Circular DC magnetron 6-position target change device
System of substrate cleaning and assistance	Ion cleaning source with ion charge neutralizer
Power supply units	Comply with CE regulations, have highly efficient built-in arc quenching system, short-circuit protection, current, voltage or power control
Sputtered coatings	UV, visible and IR-range
Built-in optical control	spectral, with sub-range of 200-380, 80-720, 720-1100, 1100-1700 nm One-wave range 1.0-5.0 micron
Operation gases	argon, oxygen, helium, nitrogen
Cooling system	Stand-by, closed-in with accuracy of temperature setting and sustaining +/- 1.0°C
High vacuum pumping	turbomolecular or cryogenic pump
Forevacuum pumping	dry oil-free pump
Rated power consumption	20 kW
Assembly dimensions	2000.00x2000.00x1600.00 mm
Required equipment space	3000.00x3000.00 mm
Warranty	2 years since commissioning date
Delivery time	150 days maximum

## Why IZOVAC ?

- over 20 years' experience in the research and development of ion-beam technologies
- over 15 years' experience in the development of specialized vacuum systems
- over 130 vacuum systems commissioned in Russia, Japan, Taiwan, Malaysia, South Korea, France and Germany