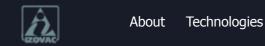
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Vacuum coating systems

Components

Coating service

Support

Contacts





Magnetron sputtering
Ion-beam sputtering
Ion-beam cleaning
Ion-beam assisting
PECVD
Hydrophobic coatings
Antifingerprint coatings
Solar Cells - CIGS technology
Heterojunction Solar Cell
(HJT technology)

Lidiz



Vacuum coating equipment Lidiz allows to achieve coatings with low scattering and high laser induced damage threshold.



Vacuum technological system LIDIZ is an effective system for deposition of precision optical coatings for a wide range of applications. The LIDIZ vacuum system is equipped with a high-frequency grid ion-beam sputtering source, high-frequency grid ion-beam source for substrates pre-cleaning, surface activation and sputtering assisting and high-frequency neutralizer.

LIDIZ system helps to obtain thin films of from a variety of materials with high accuracy and excellent quality. Spectral optical control allows to make the processes fully automatic and increase the yield significantly. The system is intended both for R&D and small-scale production. The system is implemented with dry pumping system, ensuring high purity of the working processes.

TECHNOLOGICAL FEATURES:

High-frequency ion-beam grid sources for the sputtering, pre-cleaning, surface activation and

sputtering assisting

- Loud-lock chamber with robotic arm
- Disc or planetary substrate holders
- Spectral or single wave optical monitoring system from UV to mid-IR range with coating re-optimization during the process
- Innovative holder for 4 targets per process with a mechanism of rotation and horizontal move during the sputtering
- _ Integration into a clean room

Size of substrate holder (either disc or a planet), mm	320
Coating thickness uniformity (either per disc or a planet), %	±0.5
Ø30 mm substrates capacity per disc (one planet) , pcs	37
Ultimate vacuum in a clean process chamber, Pa	5•10 ⁻⁴
Technological devices	High-frequency ion-beam grid source for sputtering; High-frequency ion-beam grid source for precleaning, surface activation and assisting during the
	sputtering; High-frequency neutralizer

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Coating monitoring

Spectral or single wave optical monitoring system from UV to medium mid-IR range

† Product list

