ALLIANCE CONCEPT

Vacuum System Solutions

Vacuum ▶ PVD Thin Films ▶ Leak testing ▶ Plasma
ALLIANCE CONCEPT’s
3 main activities

Thin Film Coating  

Vacuum Technology  

Leak testing
Our activities

Thin Film Coating (PVD) 86%

- Magnetron sputtering
- Vacuum evaporation
- Plasma cleaning processes
- Dry etching

Applications
- Optical
- Optoelectronic
- Microelectronic, MEMS
- Sensor manufacturing
- Tribological layers
- Luxury
Our activities

Leak detection 8%

- Tracer gas for leak testing (Helium, Hydrogen-based gas...)
- Turn-key fully automatic control systems

Applications

- Automotive
- Energy
- Refrigeration
- Aircraft industry
- Medical
- R&D (Compact test benches)
Our activities

Vacuum Technologies 6%

- Ion Beam Figuring Plant (IBFP)
- Pumping systems
- Simulators for Space Industry

Applications
- Optics
- Electronic tubes
- Aeronautics
- Space industry
The company in a glance

Administrative information

- Creation: 1991
- Legal form: SAS
- Paid up capital: 418 000 €
- Workforce: 48 employees
- Location: Annecy - France
The company in a glance

Company’s turnover

![Bar chart showing company's turnover from 2010 to 2018, measured in millions of €.]
Product line

- Magnetron sputtering systems
- Evaporation product range
- Leak detection systems
- Turn-key equipments
Surface activation

- RF plasma, microwave, BF
- Primary or secondary pumping
- Automatic sequences process
Magnetron sputtering systems

AC 450
4 x 100 mm magnetrons

LINE 440
5 x 127x381 magnetrons

DP 650
4 x 200 mm magnetrons

DECORA 760
Dépôt 3D

DP 850
6 x 200 mm magnetrons

CT 200
Multi-chamber Clustertool

DP 1100
200mm Si
AC main forces

CT 200 multi-processes platform:
- Up to 6 modules
- Home made vacuum robot
- Wide range of system configurations
- Solar, nanotechnologies, semiconductor (R&D),…
Evaporation product range

- **EVA 300**: Laboratory evaporator
- **EVA 450**: E-beam gun R&D
- **EVA 600**: Electron gun
- **EVA 760**: Electron gun
- **MIH 1900**: Industrial application
- **MIH 2800**: Large capacity
Leak detection

Refrigeration

Automotive Industry

Energy

R&D (Test Benches)
Modul’He

Tracer gas for leak testing

- Modular standard base
- Global method, sniffing
- Optimised maintenance
- Ideal for R&D (prototypes), Maintenance, Industrialisation etc.
Turn-key equipments

TCO

DP 2000

300mm Xfert chamber

Vacuum furnaces

Web Coater
Turn-key equipments

- System capacity: 2.0 x 2.1 m²
- Thickness uniformity: +/- 5% on 2 m
- Deposition: DC, DC pulsed, RF, MF
- Ultimate vacuum: 3.10⁻⁷ mbar