

VACUUM - PVD THIN FILMS - LEAK TESTING - PLASMA

PVD - HARDCOATING



allianceconcept



Our product range

Based on cathodic arc evaporation technology

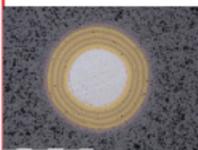
High-performance coatings

Production equipment

Proposed with advanced functions like plasma booster(surface preparation), independent targets shutters, and many others, our HC range ensures quality and reproducibility of your coatings. The equipments are designed to be installed in production environments, with a focus on ease and ergonomic for their operation and maintenance. These equipments are proposed with a wide range of process recipes.

The HC range and its applications

processing of cutting tools,
punched and dies



Characterization of coatings

Analysis



MEB + EDX

Hardness measurement



DUROMETER

Thickness measurement



CALOTESTER



HC 800



- 2 arc sources with independent shutter
- Pulsed arc power supplies
- 500°C heating
- 600mm dia. carousel
- 3, 6 and 9 spindles
- DC pulsed bias
- Up to 7 gas lines
- User friendly machine interface

HC 1100



- 4 arc sources with independent shutter
- Pulsed arc power supplies
- 500°C heating
- 750mm dia. carousel
- 2,4 and 8 spindles
- DC pulsed bias
- Up to 7 gas lines
- User friendly machine interface

OUR PROCESSES

TiN, CrN, TiCN, TiAlN, TiAlCrN...
AlTiCrN, AlTiSiN-TiSiN...
AlCrN, AlCrSiN...

OUR ADVANTAGES

- Surface preparation: Plasma Booster, MIE
- Duplex processes: nitriding before coating
- Single-layer, multi-layer coatings
- Uniformity +/-5% over the entire height of the carousel





HC 801



Hybride machine with two chambers

- One for arc evaporation
- One for sputtering processes

One machine, two technologies

- 2 vacuum chambers
- 2 technologies

Designed to ensure superior quality and performance, our HC range is intended for series production and can be configured to meet your specific surface treatment needs. We are at your service to demonstrate the quality of our coatings on your tools.

DESIGNED AND MANUFACTURED IN FRANCE

