

Universal PVD Hard Coating System **DREVA 600C**



Main Features

- Field proven, reliable and refined equipment concept.
- Design with two large vacuum chamber doors in which the coating sources are installed.
- 6 or 12 VTD-proprietary round arc sources with shutters and power supplies.
- Option: Magnetrons for sputtering (planar and tubular), including HiPIMS.
- Option: Hollow cathode for plasma pre-treatment, heating and ion assisted deposition.
- Radiative substrate heaters for a process temperature up to 500°C.
- Usable coating volume: Ø 500 mm x 500 mm.
- Internal chamber size: Ø 700 mm x 875 mm.
- Customized part holder for various tool and component designs.
- Low noise level of about 65 dBA.
- Fully automated control system and data logging which can be accessed via VPN.
- Gas inlet system for up to 5 process gases (standard are Ar, N₂ and Acetylene).

Applications

- Hard coating of tools and parts:
DREVA 600C
- Decorative hard coating:
DREVA 600C Decorative

Customer Benefits

- Modular configuration enables an application-specific adaptation.
- Customer-specific substrate carriers.
- Easy access to all relevant components for system operation and maintenance.
- Straightforward project execution.

Technical Advantages

- 1-fold, 2-fold and 3-fold substrate rotation according to application.
- Simple operation via editable recipes.
- Access of two employees in parallel through two large vacuum chamber doors.
- Remote diagnostics for troubleshooting over the internet (VPN).
- Backing pumps are maintained on a service frame without crane or forklift.
- Simple & safe technology transfer from lab systems to customer's DREVA 600C.
- Shipping of the DREVA 600C including accessories on a 18t truck or 20ft high cube container.
- Relocation on the shop floor is possible just with a forklift.
- Plug and play installation by connecting cooling water, process gases, electricity, compressed air and exhaust at a single spot.
- Hard coating productivity of up to 1,040 Ø 8 mm drills per batch on < 5m² floorspace.

Range of Coatings

- Hard coating of tools and parts as mono- and multi-layer:
AlCrN, AlTiN, AlTiSiN,
CrN, TiAlN, TiCN, TiN,
TiSiN, WC (only sputtered)
- Decorative hard coatings:
Grey, Gold, French Gold, Bronze,
Champagne, Copper, Brown,
Mocca, Anthracite, Black