

VON ARDENNE 



DREVA 600 UNIVERSAL PVD HARD COATING SYSTEM



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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 VA-proprietary round arc sources with shutters and power supplies.
- Option: Sputter cathodes (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 400°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 gases are Ar, N₂ and Acetylene).

APPLICATIONS

- Hard coatings of tools and parts
- Decorative hard coatings

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 600.
- Shipping of the DREVA 600 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 < 5 m² floorspace.

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.

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

WORLDWIDE SALES AND SERVICE

VON ARDENNE GmbH (headquarters) | Am Hahnweg 8 | 01328 DRESDEN | GERMANY

Sales: ☎ +49 (0) 351 2637 189 | sales@vonardenne.com

Service: ☎ +49 (0) 351 2637 9400 | support@vonardenne.com

VON ARDENNE Vacuum Equipment (Shanghai) Co., Ltd. | ☎ +86 21 3769 0555 | 📠 +86 21 6173 0200 | sales-vave@vonardenne.com; support-vave@vonardenne.com

VON ARDENNE Malaysia Sdn. Bhd. | ☎ +60 4408 0080 | 📠 +60 4403 7363 | sales-vama@vonardenne.com; support-vama@vonardenne.com

VON ARDENNE Japan Co., Ltd. | Tokyo office | ☎ +81 3 6435 1700 | 📠 +81 3 6435 1699 | sales-vajp@vonardenne.com; support-vajp@vonardenne.com

VON ARDENNE North America, Inc. | Ohio office | ☎ +1 419 386 2789 | 📠 +1 419 873 6661 | sales-vana@vonardenne.com; support-vana@vonardenne.com

VON ARDENNE Vietnam Co., Ltd. | ☎ +84 966 29 29 50 | sales-vavn@vonardenne.com; support-vavn@vonardenne.com