

DISCOVERY HDG[®]

ION BEAM DEPOSITION & ETCH PLATFORM.

THE DISCOVERY[®] HDG PROVIDES A TURNKEY SYSTEM FOR A RANGE OF PROCESSES: ION BEAM DEPOSITION, ION BEAM ASSISTED DEPOSITION, ION BEAM ETCH, REACTIVE ION BEAM ETCH.

- ✓ SAMPLE PREP
- ✓ R & D
- ✓ BATCH PRODUCTION
- IN-LINE PRODUCTION

- EVAPORATION
- ✓ SPUTTERING
- PECVD

MADE IN THE U.S.A. SINCE 1964

DISCOVERY HDG

THE DENTON DIFFERENCE YOUR PROCESS IS OUR PROCESS

We collaborate with you to design a system that solves your exact thin film coating process needs. When we ship you a tool, it's production ready.

- Our systems scale to meet your production requirements
- We believe in customers for life
- Worldwide support network

AT DENTON WE CARE ABOUT YOUR SUCCESS

- FACTORY ACCEPTANCE TESTS
- PERSONALIZED TRAINING
- REMOTE, REAL-TIME SUPPORT
- CE/UL/CSA COMPLIANT SYSTEMS



MADE IN THE U.S.A. SINCE 1964

www.dentonvacuum.com

DISCOVERY HDG

COMPREHENSIVE SELECTION OF ION SOURCES

ACCESS TO OVER 40 DIFFERENT ION SOURCES COVERS ALMOST ANY APPLICATION.

POWERFUL CONTROL SYSTEM

AVAILABLE IN SEMI-MANUAL MODE OR IN FULLY AUTOMATIC MODE WITH ONE PUSH AUTOMATION TO REDUCE SYSTEM DOWNTIME.

PROCESSPRO UPGRADE OFFERS:

1. **CONSISTENT CONTROLS** ACROSS ALL DENTON VACUUM PRODUCTS.
2. **STANDARD SOFTWARE** MAKES IT EASY TO SUPPORT AND AVOID COSTLY CUSTOMIZATION FEES.
3. **SOURCE CODE** FOR YOUR PROGRAMS SO YOU CAN CUSTOMIZE YOUR PROGRAMS.
4. **NETWORK CAPABILITIES** MAKES THE DISCOVERY HDG A NODE ON YOUR NETWORK ENABLING REAL-TIME, REMOTE SUPPORT AND UPGRADES.



STANDARD CRYOGENIC PUMP

COOL SUBSTRATE

SUBSTRATE REMAINS COOL DURING SPUTTERING PROCESS.

ROTATING AND TILTING SUBSTRATE

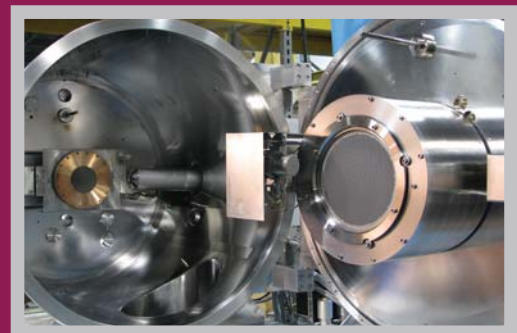
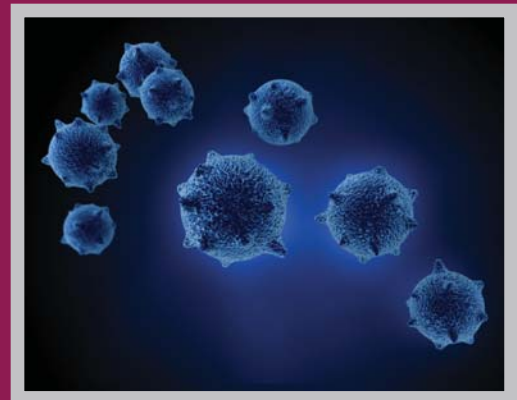
CAPABLE OF TILTING TO OFF-AXIS ANGLES AND ROTATING UP TO 20 RPM.

POWERED BY



TYPICAL APPLICATIONS

- NANOTECHNOLOGY
- ELECTRONICS
- SEMICONDUCTOR (COMPOUND OR OTHER)
- MATERIALS RESEARCH
- R&D
- MEDICAL DEVICES
- PRECISION MILLING
- VIA ETCHING



DISCOVERY HDG

OPTIONS

	EVAPORATION
HDG TILT FIXTURE, SINGLE ROTATION, 6" OR 8" DIAMETER	X
HDG TILT FIXTURE, PLANETARY ROTATION, THREE 6" WATER COOLED PLANETS	X
RF OR DC ION BEAM DEPOSITION SOURCES	X
RF OR DC ION BEAM ETCH AND ASSIST SOURCES	X
OPTICAL SPECTROSCOPY AND POINT DETECTION	X
NEUTRALIZATION SELECTION	X
OPTICAL SPECTROSCOPY AND POINT DETECTION	X
DUAL ROTATION PLANETARY	X
PUMP CONFIGURATION	
TURBO PUMPING SYSTEM	X
OIL FREE MECHANICAL	X

specifications subject to change without notice



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