



DISCOVERY®

MULTI-CATHODE SPUTTER DEPOSITION PLATFORM

THE DISCOVERY® SERIES OF MAGNETRON SPUTTER DEPOSITION SYSTEMS PROVIDES A VERSATILE, TURNKEY SOLUTION FOR CONFOCAL AND PERPENDICULAR SPUTTERING GEOMETRIES.

✓ R & D

✓ BATCH PRODUCTION

IN-LINE PRODUCTION

EVAPORATION

✓ SPUTTERING

PECVD

MADE IN THE U.S.A. SINCE 1964

DISCOVERY

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



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www.dentonvacuum.com

DISCOVERY

FLEXIBLE CATHODE CONFIGURATIONS.

THE DISCOVERY® ACCOMMODATES UP TO 8 CATHODES WITH TRIAXIS ADJUSTMENT OF RADIUS, DISTANCE, AND ANGULAR PRESENTATION TO PROVIDE $<\pm 5\%$ COATING UNIFORMITY. EACH CATHODE CAN BE OPTIMIZED FOR A DIFFERENT DEPOSITION PROCESS AND TARGET MATTER.

INDEPENDENT ELECTRO-PNEUMATIC SOURCE SHUTTERS AND CHIMNEY ASSEMBLIES PREVENT CROSS CONTAMINATION OF THE SOURCE MATERIAL.

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 A NODE ON YOUR NETWORK ENABLING REAL-TIME, REMOTE SUPPORT AND UPGRADES.



LARGE LOAD LOCKS

AUTOMATED TO HANDLE SUBSTRATE AS LARGE ARE 30" IN DIAMETER AND AS HEAVY AS 50LBS.

MULTIPLE PUMPING CONFIGURATIONS

A VARIETY OF DIFFUSION, CRYOGENIC, AND TURBO PUMP CONFIGURATIONS ARE AVAILABLE TO FIT YOUR BUDGET AND PROCESS. REAR OR BOTTOM FITTED PUMPS PROVIDE EASY ACCESS FOR SERVICE BASED ON YOUR WORKSPACE NEEDS.

TYPICAL APPLICATIONS

SPUTTERING

- Pilot production
- Optical coatings
- Metal Coatings
- Nanotechnology
- OLEDs
- Protective coatings



DISCOVERY

OPTIONS

	DISCOVERY 635	DISCOVERY 785
MAXIMUM SUBSTRATE UP TO 8" DIAMETER	X	
MAXIMUM SUBSTRATE UP TO 30" DIAMETER		X
RF ETCH/BIAS	X	X
WATER COOLED TABLE	X	X
REACTIVE FLOW CONTROL	X	X
SUBSTRATE FLIP	X	X
IN-SITU ELLIPSOMETRY	X	X
PUMP CONFIGURATION		
CTI CRYOPUMP WITH THROTTLING GATE VALVE	X	X
TURBOMOLECULAR PUMP WITH LN2 TRAP ASSEMBLY	X	X
TWO-STATE ROTARY VANE MECHANICAL PUMP	X	X
DRY SCROLL MECHANICAL PUMP	X	X

specifications subject to change without notice



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