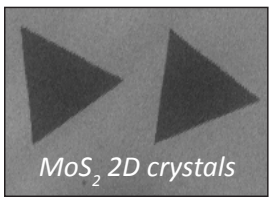
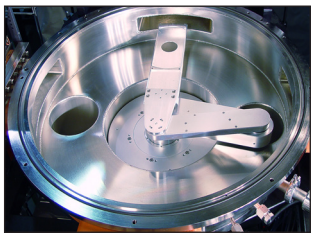
TMDC™

Cluster System for Transition Metal Dichalcogenides (TMDs, TMDCs)

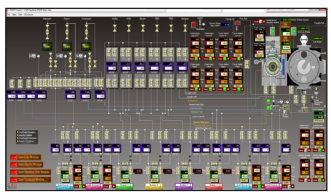
Two-dimensional atomic layers of transition metal dichalcogenides such as molybdenum disulfide (MoS_2) and tungsten diselenide (WSe_2) exhibit extraordinary optoelectronic properties. Applications for these materials include high speed electronics, flexible devices, next generation solar cells, and touch screen display panels.


MoS_2 2D crystals

The TMDC™ cluster system includes a central robotic transfer chamber, and can be configured with up to three (3) process modules with either a loadlock or glovebox at the load station. Each process module is configured for a particular material. The substrate is transferred robotically between the load station and process modules. By keeping chemistries isolated to particular chambers, heterostructures can be synthesized without risk of cross-contamination. Process modules are independent and can be operated in sequence or parallel.



We provide turnkey operation by offering gas cabinets and exhaust conditioning systems that are integrated with the main system. Our proprietary CVD*WinPrC*™ instrument control and recipe editing software suite, included as standard, is industry-ready and used in R&D and production environments.



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