

Resource Summary Report

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Texas State University E-Beam Evaporator system

RRID:SCR_028200

Type: Tool

Proper Citation

Texas State University E-Beam Evaporator system (RRID:SCR_028200)

Resource Information

URL: <https://sro.txst.edu/sro-facilities/sro-nrsc/sro-nrsc-ee.html>

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Description: Facility Angstrom Engineering EvoVac is a thin film deposition system based on evaporation of source material that can deposit a wide range of materials including metals and inorganic compounds. Resistive evaporation results when electrical current heats a boat filled with source material whereas electron beam evaporation utilizes filament emission and magnetic focusing of a high energy electron beam which is swept within a crucible of deposition material. The deposition processes occur in a vacuum to permit long mean free paths from indexed multi-pocket sources at rates and terminal thicknesses controlled using a quartz rate sensor. The substrate can be heated, rotated, and plasma cleaned to control film morphology, uniformity, and adhesion. Vacuum-based deposition system that uses an electron beam to evaporate materials for high-purity thin film coatings with precise thickness control.

Synonyms: , E-Beam Evaporator (PVD75 E-Beam), E-Beam Deposition System, Electron Beam Evaporator

Resource Type: instrument resource

Keywords: Texas State University Nanofabrication Research Service Center Core Facility, electron beam evaporation, PVD, thin films, vacuum deposition, coatings

Availability: Restricted

Resource Name: Texas State University E-Beam Evaporator system

Resource ID: SCR_028200

Alternate URLs: <https://www.ajaint.com/systems-evaporation>

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Ratings and Alerts

No rating or validation information has been found for Texas State University E-Beam Evaporator system.

No alerts have been found for Texas State University E-Beam Evaporator system.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.