

A Reflection High-Energy Electron Diffraction (RHEED) system can be used as an in-situ characterization tool in Molecular Beam Epitaxy (MBE). CreaTec utilizes the RHEED System manufactured by Dr. Gassler Electron Devices. For a complete RHEED analysis, Createc provides additional equipment, including camera holder, viewport shutter, RHEED screen, digital camera and SAFIRE software package.

Features

- Superior beam quality without degradation
- Long life electron-source, no replacement of filament
- Electrostatic focus, no magnetic focus coil adjustments
- Sealed internal beam optimization and alignment
- With integrated valve to chamber
- Fully computerized power supply and remote control

TYPE	REG 15	REG 30
ENERGY RANGE	5 - 15 kV	7 - 30 kV
MAX. CURRENT	160 μ A	
BEAM SPOT SIZE	< 70 μ m	
FOCUS LENS	electrostatic	
DEFLECTION	magnetic X-Y up to $\pm 10^\circ$ beam rocking up to $\pm 7^\circ$ beam blanking	
MOUNTING FLANGE	DN 40 CF	
BAKE-OUT TEMP.	200 $^\circ$ C	
LENGTH DIMENSIONS	242 mm	318 mm
SHIELDING	μ -metal	
CONTROLLER INTERFACE	USB TCP/IP	

