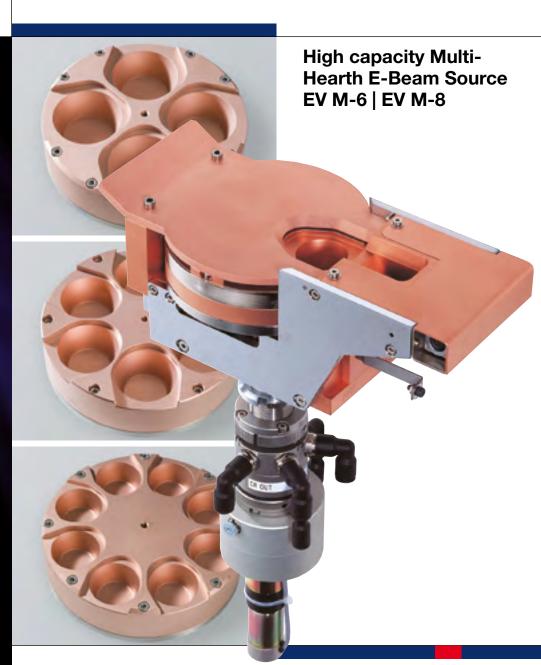
FerroTec

The EV M-6 and EV M-8 multihearth electron beam evaporators are specifically designed for applications requiring high deposition rates and effective material utilization. Typical applications are production coatings or laboratory-scale evaporations with a variety of different materials or with materials that require continuous pocket rotation. The sources offer unique technical features to enhance the reliability and repeatability needed in production environments.



Advantages/Benefits

- Directly cooled crucibles with large capacity
- Homogeneous material depletion
- Stable beam sweep at high beam deflection frequencies
- Eliminates water leakage into vacuum system
- No additional water feedthrough required
- Reduced maintenance and down-time
- Enhanced run-to-run repeatability
- Built-in hearth rotation with high positioning accuracy
- Non-interchangeable connections

High capacity Multi-Hearth E-Beam Source EV M-6 | EV M-8

Features

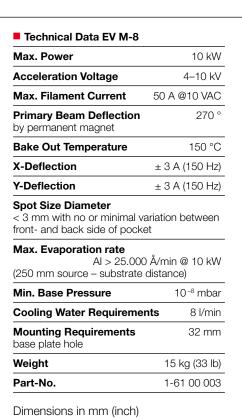
- Small beam spot regardless of position in pocket
- Low inductance x- and y-coils with dynamic defocusing capability
- No dynamic water-vacuum interface
- Integrated coaxial water feedthrough or hearth & source body cooling
- Long filament lifetime
- Reproducible & quick filament fixture
- Hearth positioning using optical encoder
- Plug-in connector for magnet leads



Technical Data EV M-6 6 kW Max. Power **Acceleration Voltage** 4–10 kV Max. Filament Current 50 A @10 VAC **Primary Beam Deflection** 270 ° by permanent magnet 150 °C **Bake Out Temperature X-Deflection** ± 3 A (150 Hz) Y-Deflection ± 3 A (150 Hz) Spot Size Diameter < 3 mm with no or minimal variation between front- and back side of pocket Max. Evaporation rate Al > 12.000 Å/min @ 6 kW - substrate distance) (250 mm source Min. Base Pressure 10⁻⁸ mbar **Cooling Water Requirements** 6 l/min **Mounting Requirements** 32 mm base plate hole Weight 12 kg (26,5 lb)

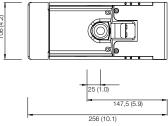
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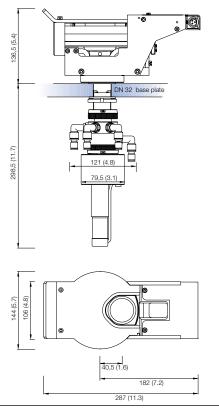
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