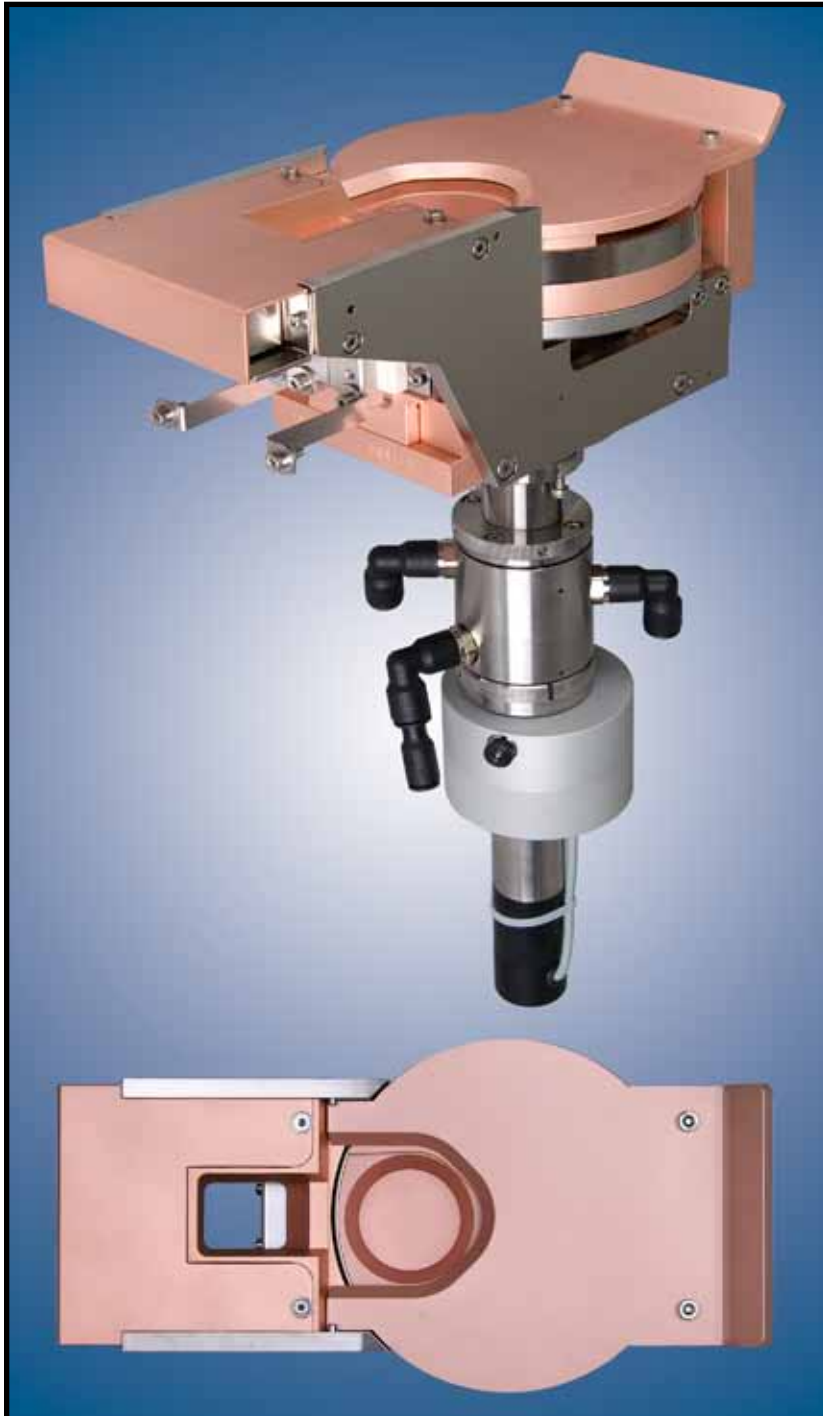


KL-8

High Capacity Multi-Hearth E-Beam Source



Kurt J. Lesker
Company

PROCESS EQUIPMENT
DIVISION

Applications

- Designed for optical, electronic and high rate deposition processes

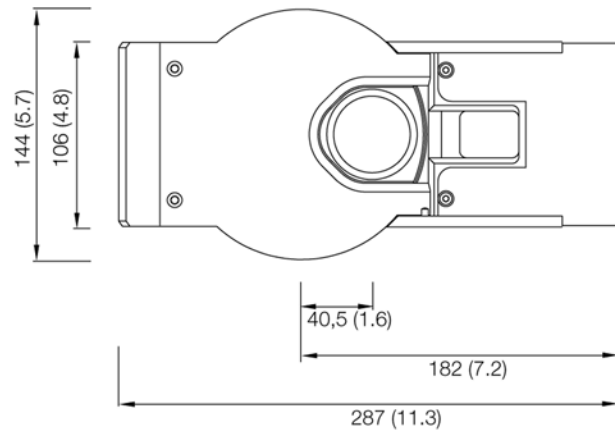
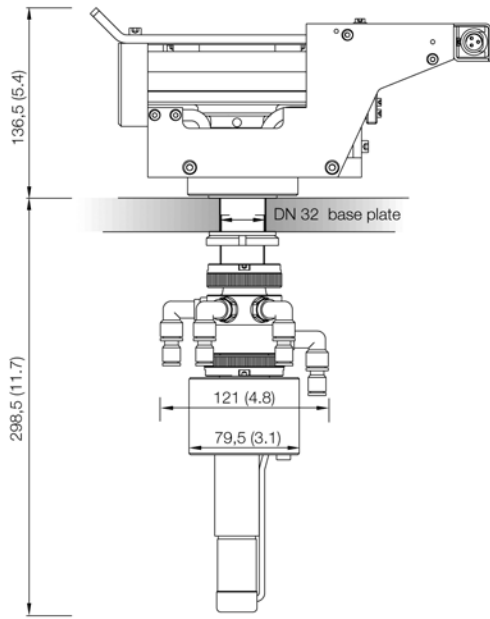
Features

- Small beam spot regardless of position in pocket
- Low inductance x- and y-coils with dynamic defocusing capability
- Modular design
- 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

Benefits

- Directly cooled interchangeable crucibles with large capacities
- Homogeneous material depletion
- Stable beam sweep at high beam deflection frequencies
- Eliminates water leakage into vacuum system
- Full integration requires only 3x32mm holes
- Reduced maintenance and down-time
- Enhanced run-to-run repeatability
- Built-in hearth rotation with high positioning accuracy
- Fool proof non-interchangeable electrical connections

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Dimensions Approximate: Shown in MM and (Inches)

Specifications

Max. Power	10 kW
Acceleration Voltage	4-10 kV
Max. Filament Current	50 A @ 10 VAC
Primary Beam Deflection (by permanent magnet)	270°
Bake Out Temperature	150°C
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 Depending on hearth configuration up to:	Al > 25,000 Å/min @ 10 kW (250 mm source - substrate distance)
Typical Operating Pressure Range	7.5 ⁻⁴ Torr (1 x 10 ⁻³ mbar) to 7.5 x 10 ⁻⁹ Torr (1 x 10 ⁻⁸ mbar)
Cooling Water Requirements	8 l/min
Mounting Requirements (base plate hole)	32 mm
Compatible Crucible Sizes	4 x 35 cc, 6 x 20 cc, 8 x 12 cc (custom configurations on request)
Weight	15 kg (33 lb)

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Kurt J. Lesker[®]
Company

www.lesker.com

Kurt J. Lesker Company
United States
412.387.9200
800.245.1656
salesus@lesker.com

Kurt J. Lesker Canada Inc.
Canada
416.588.2610
800.465.2476
salescan@lesker.com

Kurt J. Lesker Company Ltd.
Europe
+44 (0) 1424 458100
saleseu@lesker.com

Kurt.Lesker (Shanghai) Trading Company
科特·莱思科(上海)商贸有限公司
Asia
+86 21 50115900
saleschina@lesker.com

