

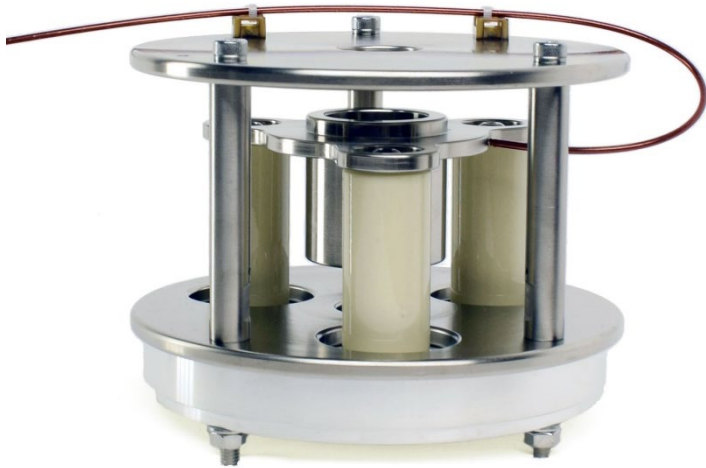


EINZEL LENS

LE-25.15.45

D-Pace

For use with D-Pace ion sources and beams < 100 keV.



- **Able to focus beams of 100 keV or less.**
- **Mounts directly in D-Pace ion sources.**
- **Simple, robust design for beam focusing.**

SPECIFICATION: LE-25.15.45

Weight/Mass:	3.2 kg
Aperture:	Ø25 mm
Electrode Gaps:	15 mm
Electrode Length:	45 mm
Max. Voltage:	25 kV
Overall Dimensions:	Ø154 mm × 113 mm long
Vacuum Pressure Range:	1 × 10 ⁻⁴ to 1 × 10 ⁻⁹ torr
Cooling Method:	Radiant
Electrical Connection:	LGH Threaded connector, or Threaded Connector, or Push-Pin

The D-Pace **LE-25.15.45 Einzel Lens** is a simple, robust way to achieve beam focusing with beams of 100 keV kinetic energy or less. It was designed for the D-Pace filament and RF ion sources, but can easily be incorporated into customer beamlines. This Einzel lens is an in-vacuum device, capable of operating at 25 kV, and is constructed of metal and ceramic components, with PEEK insulated cable and attachments. A 25 kV electrical feedthrough is provided with the Einzel lens.

The D-Pace LE-25.15.45 Einzel Lens is an effective addition to the D-Pace ion sources. When purchased with a D-Pace ion source, the Einzel lens can be delivered pre-installed. Visit www.d-pace.com to learn more about our sources, and explore other devices that can aid in beam shaping improvements.



D-Pace Filament Ion Source

Einzel lenses are charged particle lenses that provide focusing without changing the resultant kinetic energy of the beam. They consist of three apertures along the beam axis, and focus the beam by creating an electric field in the path of the ions. This field is symmetric, so ions will regain their initial kinetic energy after exiting the lens. An electrical potential is applied to the middle aperture, while the upstream and downstream are grounded.

