



# ION SOURCES

## National Electrostatics Corp.

## Einzel Lenses

### APPLICATIONS

NEC Einzel lenses are typically used for applications involving ion beams in the range of 10's to 100's of keV. They are incorporated into beamlines to aid in focusing the beam through magnet chambers and into electrostatic accelerators.

### DESIGN

All models are of all metal and ceramic construction and fully bakeable. NEC or ConFlat flanges are standard, however other flange types may be available upon request.

Einzel lenses consist of three sets of cylindrical apertures in series along an axis. The energy of the ions exiting the lens is unchanged from when the ions enter.

NEC offers many models with various aperture diameters and voltage ratings. Below is a chart comparing some of our available models.

### SPECIFICATIONS

Model	EL44-25	EL44-50	EL64-25	EL64-75	EL76-60
Acceptance Aperture Diameter	1.75" (44.5mm)	1.75" (44.5mm)	2.50" (63.5mm)	2.50" (63.5mm)	3.0" (76.2mm)
Axial Distance Between Electrodes	0.25" (6.4 mm)	0.25" (6.4 mm)	0.22" (5.6mm)	0.375" (9.5mm)	0.375" (9.5mm)
Length Along Beam Line	6.5" (16.5cm)	9" (22.9 cm)	9" (22.9 cm)	11.88" (30.2cm)	8.63" (219mm)
Electrode Voltage Rating	25kV	50 kV	25kV	75kV	60kV

Custom models can be provided upon request. Please contact NEC with needed specifications. NEC can then direct you to the most appropriate model for your needs.

### ACCESSORIES

All necessary power supplies, cables, and local or computer control options can be provided upon request.



NEC Einzel Lens with CF flanges

## Contact NEC

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