Electron Source
EQ 22/35

- High electron current
- Wide energy range
- Small spot size
- Integrated beam deflection
- Optional pulse mode
Electron Source EQ 22/35

The EQ 22/35 is designed for stable and reliable operation for most electron source applications including AES, scanning applications, imaging, EELS and electron pulse or desorption experiments.

Main features:
- Energy range 20 eV - 5 keV
- Energy width < 1 eV
- Sample current up to 200 µA
- Spot size down to 50 µm
- Scan area 10 x 10 mm²
- Key stone correction
- µ-metal shielding
- Hair pin cathode
- Insertion depth 154 mm, OD 33.5 mm
- Mounting flange DN35CF, 2.75”OD
- Bakeable up to 250°C

Due to the high transmission of its Einzel lens the electron source EQ 22/35 provides high electron beam currents over a wide energy range.

Options:
- Customized insertion depth
- Cu-shielding for µ-metal chamber mounting
- Fine focus microformed tip cathode
- Low current version for accurate operation below 10 nA

Typical Sample current / Spot size

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<td>FWHM [µm]</td>
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