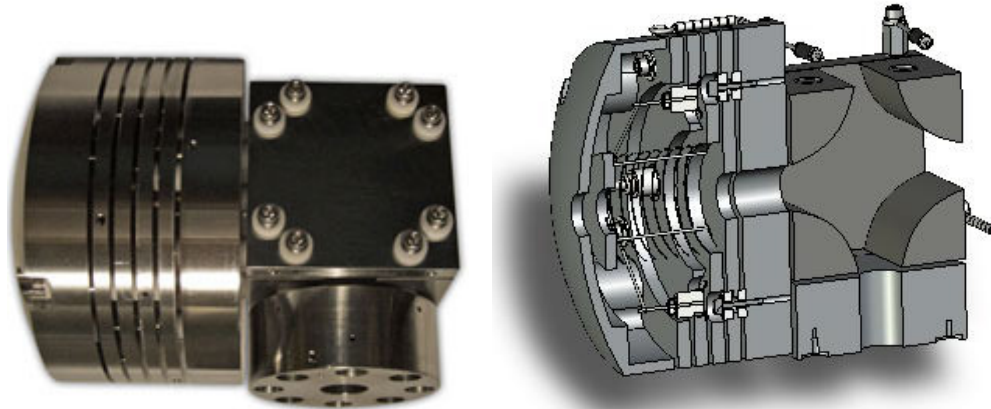


Jumbo Cross Molecular Beam Ionizer



- Cross beam ionizer designed to utilize the oversized acceptance area of large quadrupoles, (12, 19 and 20 mm).
- Has a larger emissive area than typical molecular beam ionizers (almost an order of magnitude larger area), to better match the large acceptance of larger quadrupoles, especially at higher RF frequencies.
- ‘Jumbo’ sized molecular beam ionizer with an ion region that is just under one inch in diameter, coupled to a quadrupole deflector energy filter, to yield a cross beam ionizer which provides unparalleled absolute sensitivity, as well as excellent abundance sensitivity.
- Ion region is constructed from pure platinum wires spot-welded to a platinum coated molybdenum framework. The balance of the assembly is constructed from stainless steel and aluminum oxide ceramic.
- Ion Region Basket assembly is mounted to Ion Region Mounting Plate with four screws, for easy maintenance during cleaning.
- Filament assembly is precision aligned using high tolerance ceramic washers, for simple alignment during assembly.
- Filament shield and Extraction lens both configured with 0.375 inch apertures, allowing for the sampling of molecular beams with a diameter almost an order of magnitude larger than traditional cross beam ionizers.
- Compatible with existing filament and optics power supply designs, requiring similar filament power (voltage and current) to achieve emission.
- The Jumbo Molecular Beam Ionizer is also available coupled to a thick lens einzel set to yield a high sensitivity axial molecular beam ionizer.