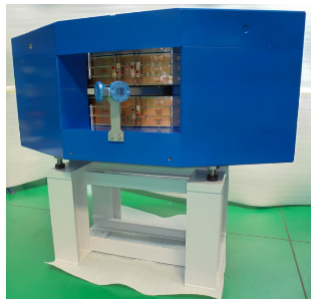
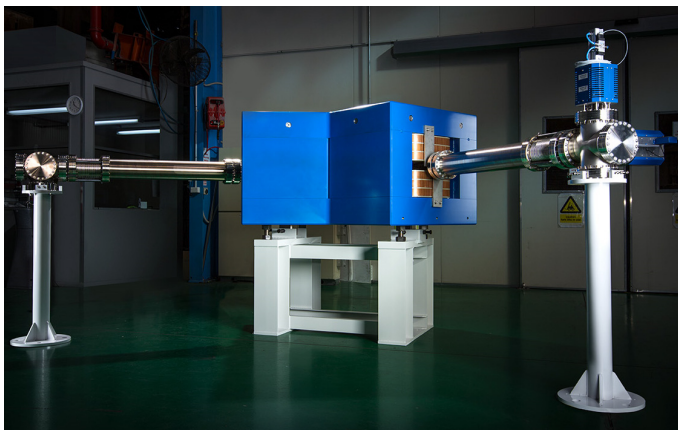




1:1500 Mass Spectrometer System

Resolves ion beams with kinetic energy to 50 keV, currents to 1 mA, and particle mass to 1500 A.M.U. to 1 part in 1500.



The **D-Pace 1:1500 Mass Spectrometer System** has been designed for resolving singly charged molecular beams with kinetic energy up to 50 keV and up to mass 1500 A.M.U. to 1 part in 1500 in mass. Beam currents up to 1 mA can be sustained by the slits and Faraday cup. The system comes complete with all stands, vacuum chambers, beampipe, bellows, magnet, slits, Faraday cup, spectrometer magnet, power supply and control system. Installation, commissioning, and training can also be provided. Custom modifications can also be undertaken to meet your particular beam kinetic energy, charge state, particle mass, and beam current conditions.

- Mass Resolution 1:1500 at 1.00 mm slit width
- Maximum Current, Energy, Mass: 1 mA, 50 keV, $q = 1+$, 1500 A.M.U.
- Magnet: 90° , $R = 1$ m, Mass = 10 Tonnes
- Upstream/Downstream High Resolution Slits:
 - 50 mm height
 - 0 - 20 mm Width accurate to ± 0.05 mm
- Pneumatic Faraday Cup with 50 mm Aperture

SPECIFICATIONS: 1:1500 Mass Spectrometer System

Mass (Weight)	~10 Tonnes
Bend Radius/Angle	1000 mm / 90°
Ent./Exit Slit - Magnet	1500 mm
Effective Length	1570.8 mm
Vacuum Chamber	316 Stainless Steel, UHV
Magnet Gap	50 mm, V-Box Gap 42 mm
Ent./Exit Pole Angle	18.435°
Maximum Flux Density	1.25 Tesla
Beam Axis Height	1300 mm
Thermal Switches: Trip Temperature	One per coil pancake 70 °C
Qty = 2 Slits Qty = 1 Faraday Cup	D-Pace Spec 2120017 D-Pace Spec 2120011
Cooling Water Connections	4.4 L/min total @ 20 °C Ø12 mm Swagelok Tube Fitting
Power Supply Output: Remote Control Current Control	200 A, 60 V, ± 10 ppm RS232 1 – 100%
Power Supply Input	360-440 VAC, Three Phase + neutral, 47/63 Hz,