www.hidenanalytical.com
info@hiden.co.uk

HIDEN ANALYTICAL

RGA Ion Source

Electron Impact Ion Source

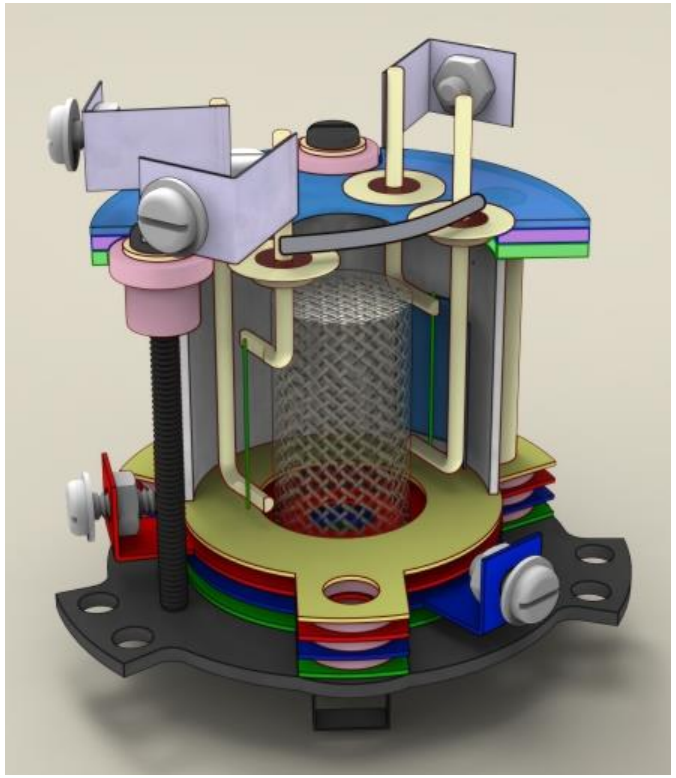
Ion Source Assembly

The ion source is one of the three key parts of the quadrupole mass spectrometer.

The neutral gas arrives at the ion source and the electron impacts ionise the species within the source.

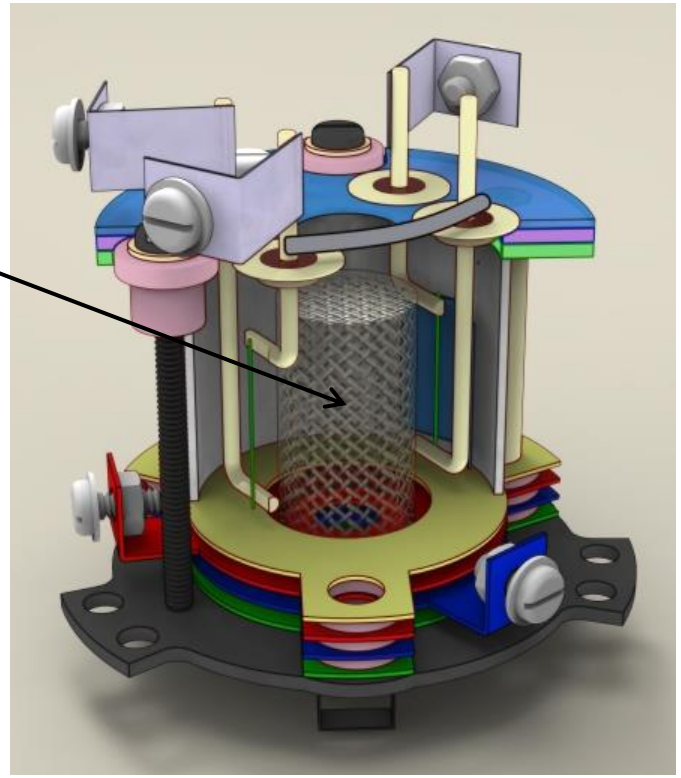
Ion are extracted by the charged plates and exit the ion source to the quadrupole.

Ion Source Assembly



Ion Source Assembly

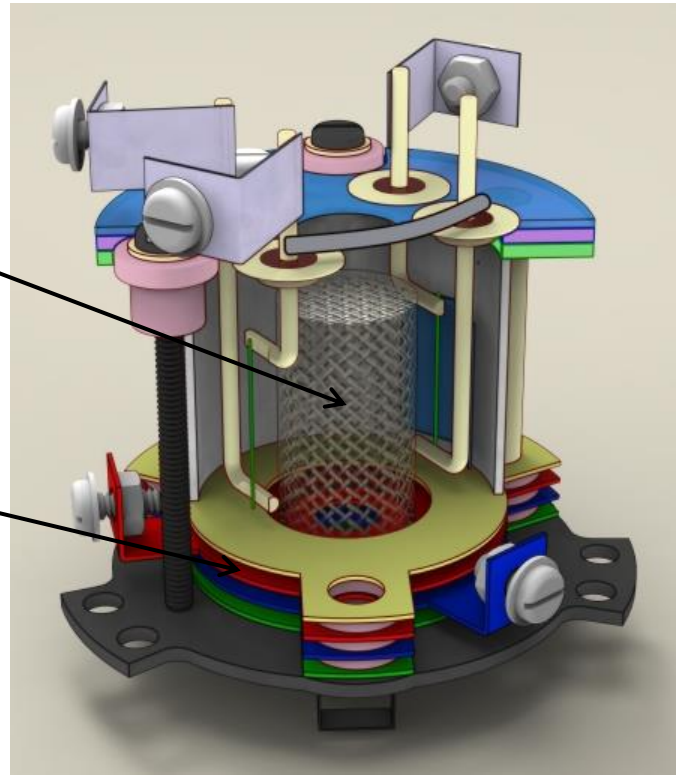
Source cage +3 volts
(Range 0 to 10 volts)



Ion Source Assembly

Source cage +3 volts
(Range 0 to 10 volts)

Focus -90 volts
(Range 0 to -150 volts)

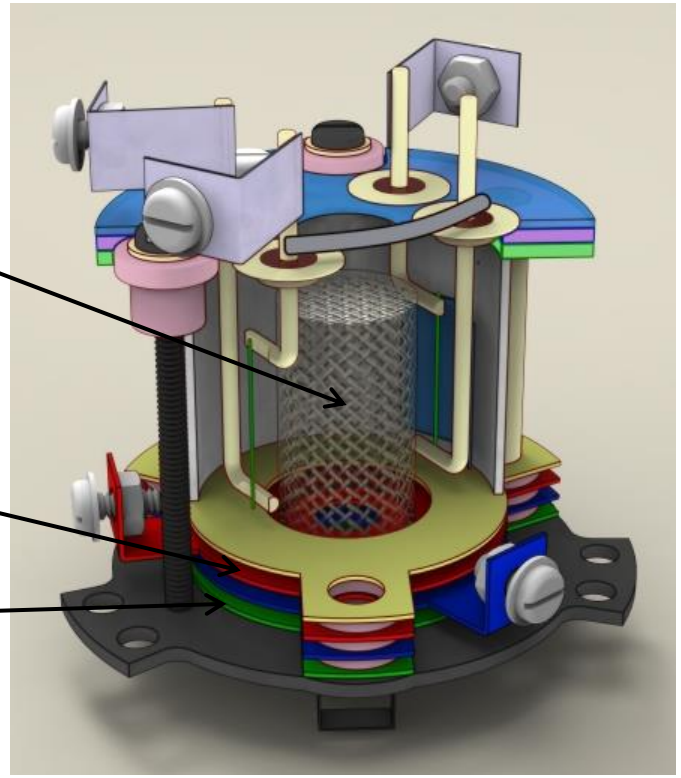


Ion Source Assembly

Source cage +3 volts
(Range 0 to 10 volts)

Focus -90 volts
(Range 0 to -150 volts)

Earth plate
(Grounded)



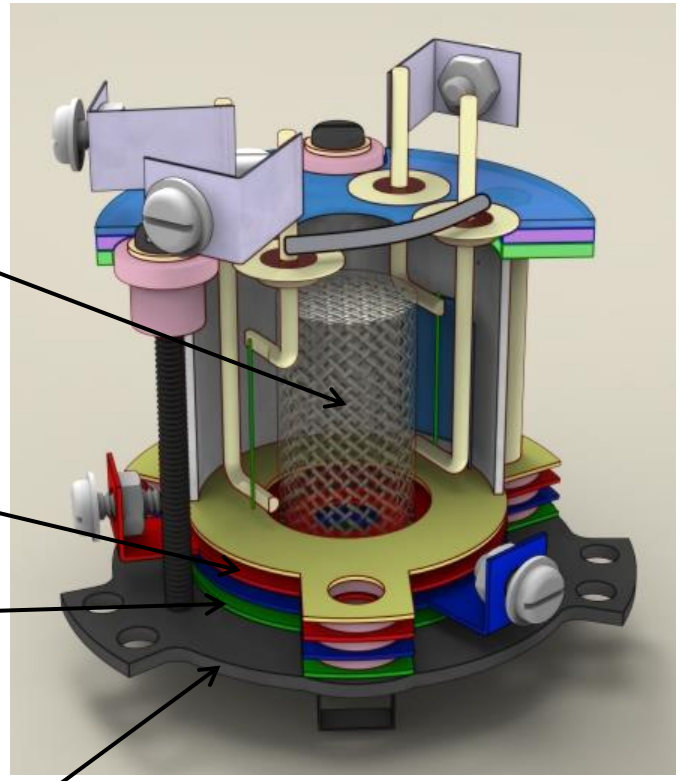
Ion Source Assembly

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(Range 0 to 10 volts)

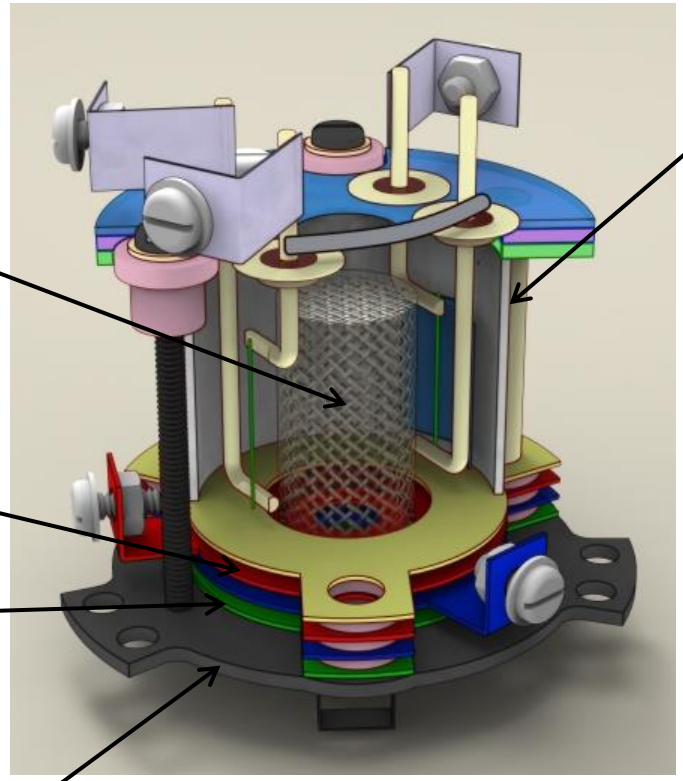
Focus -90 volts
(Range 0 to -150 volts)

Earth plate
(Grounded)

Source mounting plate
(Grounded)



Ion Source Assembly



Electron repeller
(connected with a tag to filament common, -67 volts)

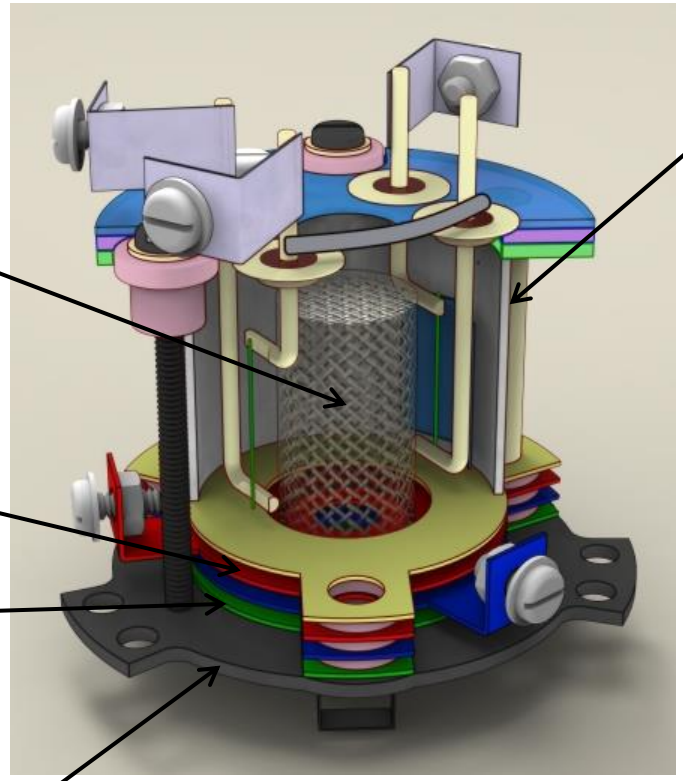
Source cage +3 volts
(Range 0 to 10 volts)

Focus -90 volts
(Range 0 to -150 volts)

Earth plate
(Grounded)

Source mounting plate
(Grounded)

Ion Source Assembly



Electron repeller
(connected with a tag to filament common, -67 volts)

Source cage +3 volts
(Range 0 to 10 volts)

Focus -90 volts
(Range 0 to -150 volts)

Earth plate
(Grounded)

Source mounting plate
(Grounded)

Settings:
Emission 1000 µA
(Range 20 to 5000 µA)

Electron energy 70 eV
(Range 4 to 150 eV)