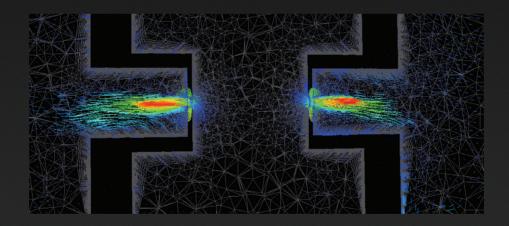




Targetry Products

SL-ALC

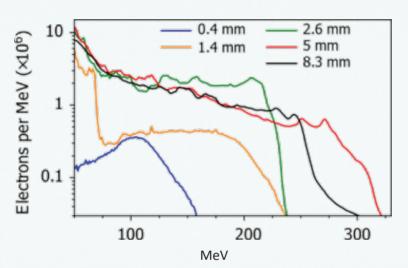
Long-length adjustable gas cell for versatile electron injection



Your tool to control electron acceleration

The SL-ALC-HI system is a motorized cell of adjustable length, conceived for laser-plasma interaction experiments at underdense regime, requiring mm-to-cm long stable medium in general (e $^{-}$ acceleration and diffraction, inverse Compton scattering, γ -ray generation, X-ray laser, high harmonic generation), and Laser Wakefield Acceleration (LWFA) at high repetition rate in particular.

- high precision monitoring
- optimal plasma imaging conditions
- ► fully motorized and easy to align
- record lifetime

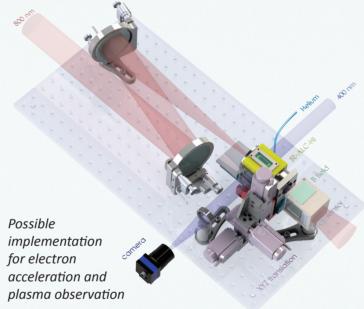


Typical electron spectra for different SL-ALC length configuration with a 40 TW laser system

Specifications	
Performances	Stable gaseous medium up to 50 mm length
Stepper motor minimal increment / rectitude	0.5 μm / 5 μm
Vacuum compatibility	10 ⁻⁶ torr
Inlet pressure	Up to 4 bar
Nozzles diameter	From 100 µm to 2 mm
Pulsed flow mode	Optional
Dimensions / mass	196 x 99 x 80 mm / 1.5 kg



The SL-ALC comes fully motorized and interfaced





Optionally, the SL-ALC can be operated in pulsed gas and regulated pressure mode with our dedicated digital controller

Unique instrument to fine-study the physics of laser-plasma interaction in underdense regime