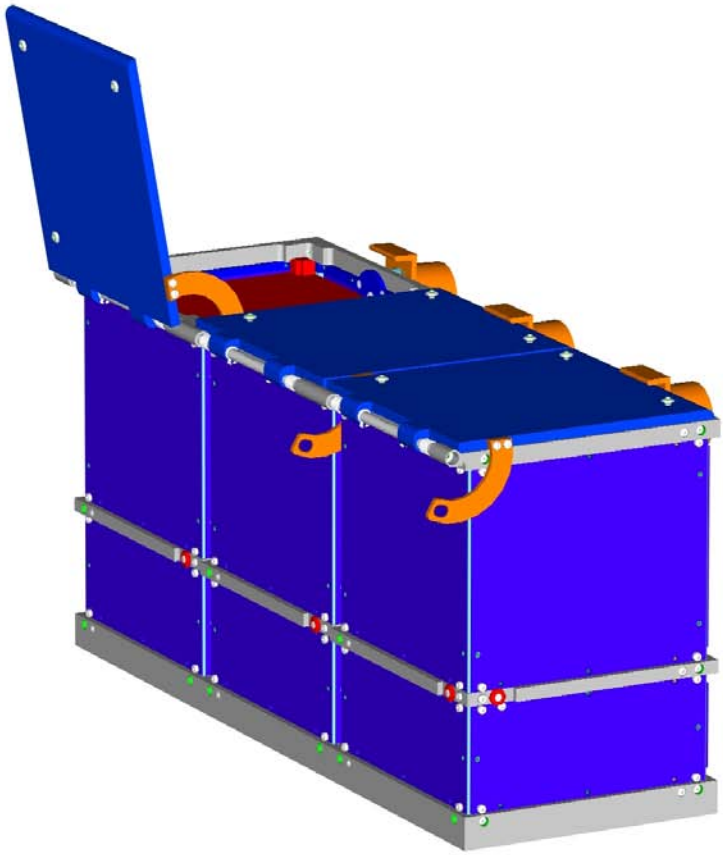
Space technology
Single Picosatellite Launcher

Astro-
und Feinwerktechnik
Adlershof GmbH

Albert-Einstein-Str.12
D-12489 Berlin

Phone: +49- 30- 6392 1000
Fax: +49- 30- 6392 1002
Internet: www.astrofein.com



SPL – Single Picosatellite Launcher

By separating un-locking and deployment process, the Single Picosatellite Launcher, e.g. for CubeSats, realises a satellite separation with:

- low angular momentum and
- low rotation rate.

Further features of the SPL are

- defined deployment velocity (adaptable on demand),
- controlled deployment by guide tracks in the frame,
- affirmation signal for successful deployment.

- The special construction principle of the SPL offers modularity in dimensioning.
- Multiple SPLs can be used for time defined and time offset disposals.
- Also applicable to picosatellites designed to CubeSat - Cal Poly Standard.

- please turn over -

Parameter		Data
General:		
Mass of satellite		0,1 – 1,0 kg
Dimensions	Picosatellite	Adaptable on demand
Dimensions	CubeSat	10cm x 10cm x 10cm
Telemetry / Tele command	Up-link	Singular activation
	Down-link	Affirmation of ejection
Mechanical:		
Mass of the SPL		≤ 1,0 kg
Dimensions of the SPL	Closed	L 127 x W 168 x H 184
(No affects on construction space)	Open	L 127 x W 188 x H 302
Deployment velocity for CubeSat 1kg (adaptable)		1 m/s
Eigenfrequency (exact values on demand)		≥ 100 Hz
Electrical:		
Type of plug		TBD
Data wire		2 for housekeeping
Current circuit		2 for activator
Power demand on provider	Stand by	0 W
	Peak load (singular 500 ms)	3,6 W
	Peak load voltage	24 V
	Peak load current	0,15 A
Qualification levels:		
Vibration		TBD
Shock		TBD
Temperature		TBD

Preliminary data sheet. Subject to changes without prior notice.