



Nano-Satellite Separation Mechanism

AxelShooter

Overview

AxelShooter is a lightweight, flexible, easy-to-customize separation mechanism especially suitable for pico- and nano-satellites (up to 30kg class satellites).

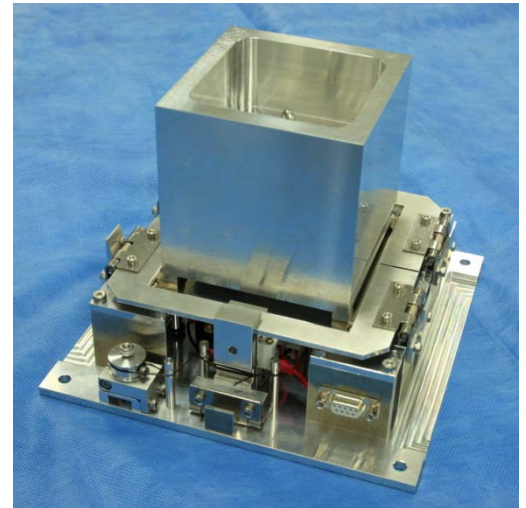
Open-type separation mechanism ensures the following advantages.

- Protrusions such as antenna and boom allowed
- Easy visual inspection and operation check after attachment

Satellite Adapter Unit (SAU) is used to attach the satellite to AxelShooter. AxelShooter holds the satellite indirectly by pushing down this SAU, so there are no contact points between the satellite itself and AxelShooter. This feature drastically relaxes requirements for the satellite structure compared to POD-type separation mechanisms (See reverse for details).

Mechanical interface to a launch vehicle is very simple. Electrical interface is customizable depending on the specification of separation signal provided.

There is a standard product for CubeSats. Customization for any larger nano-satellite is easily available.



AxelShooter



Satellite Adapter Unit

Main Accessories

AxelShooter body structure, Satellite Adapter Unit (SAU), Fixture wire (100m), Lithium battery (2 pcs), Separation signal simulation box, Carrying case

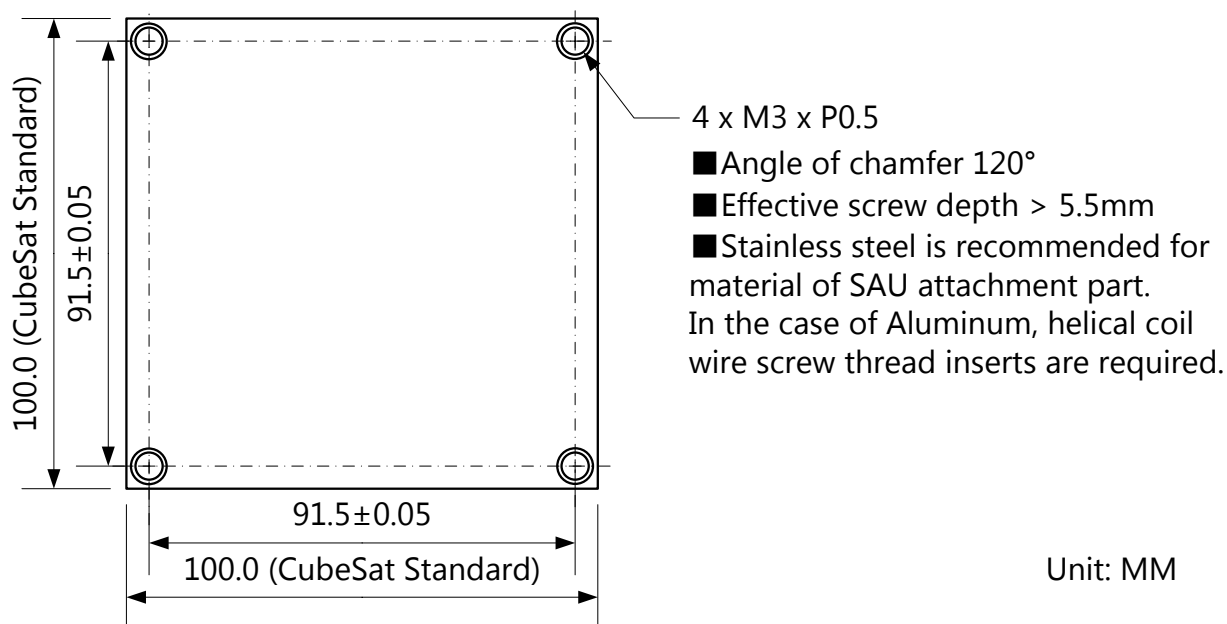
Specifications

Dimensions	200mm X 200mm X 63.5mm (closed state, w/o satellite body) 200mm X 200mm X 127.9mm (open state)
Weight	Main Body: 1.5kg, Satellite Adapter Unit 42g

* These specifications are applicable only for CubeSat AxelShooter.

* Specifications subject to change without notice.

Requirements for Satellite



- Flatness error of the plane attached to SAU: < 0.05mm
- Height error of four fixture points to SAU: < 0.1mm

* These requirements are applicable only for CubeSat AxelShooter.

Contact



AXELSPACE Corporation

#401, Tokatsu Techno Plaza

5-4-6 Kashiwanoha, Kashiwa City, Chiba 277-0882, JAPAN

TEL/FAX +81-4-7170-0490 EMAIL info@axelspace.com

URL <http://www.axelspace.com>