

Kinetica-1

Kris Christiaens - Category: Kinetica-1 - Read Time: 2 mins - Published: 07 December 2023 - Hits: 2948



Credit: CAS Space

Kinetica-1



<b>Name:</b>	Kinetica-1 (Lijian-1 / PR-1)
<b>Manufacturer:</b>	CAS Space / Chinese Academy of Sciences
<b>Height:</b>	30 m / 98 ft
<b>Diameter:</b>	2,6 m / 8,8 ft
<b>Mass:</b>	135 ton / 270,000 lb
<b>Capacity:</b>	<ul style="list-style-type: none"><li>LEO: 2,2 ton / 770 lb</li><li>SSO: 1,65 ton / 510 lb</li></ul>
<b>Stages:</b>	4 (4 x solid fuel)
<b>Cost per launch:</b>	Unknown
<b>Launch sites:</b>	<ul style="list-style-type: none"><li>Jiuquan Satellite Launch Center (China)</li></ul>
<b>First launch:</b>	27/07/2022
<b>Launches:</b>	<div>Kinetica-1 launch overview!</div>

PRODUCTS:

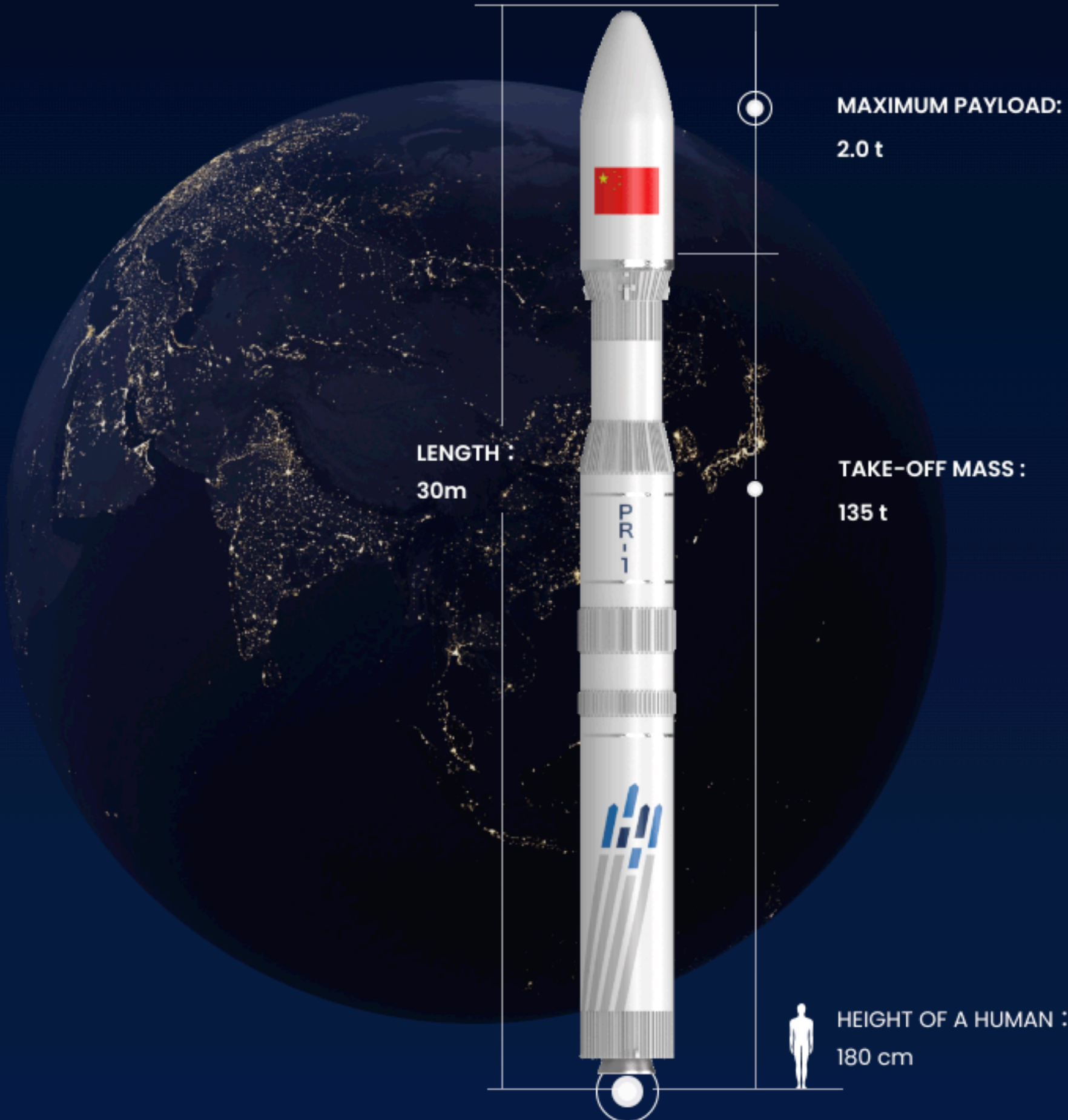
Kinetica-1

Kinetica 1 also known as Lijian 1 (力箭一号, lit. Power Rocket One) is a four-stage solid-propellant launch vehicle capable of delivering 1500 kg of payload to Sun-Synchronous Orbit (SSO).

Kinetica 1 is developed to significantly reduce payload cost per mass in anticipation of the booming commercial space economy with includes competitive payload capability and cost, robust orbital insertion accuracy, high reliability, availability on short notice and logistical versatility.

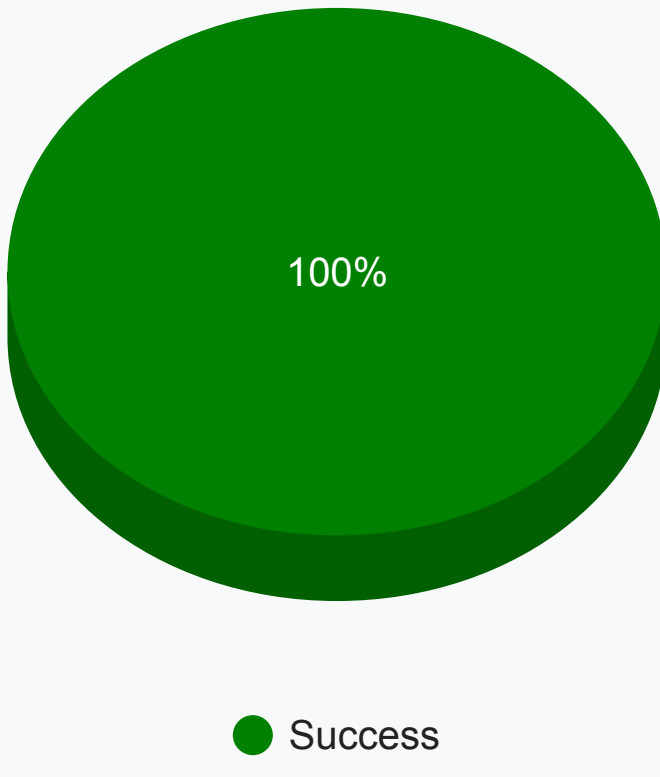
Product parameters:

- Length : 30m
- Lift-off Mass: 135 t
- Payload Capacity: 1.5 t (500km/SSO) 2.0 t (200km/40 °)
- Diameter: 2.65 m
- Fairing Diameter: 2.65m

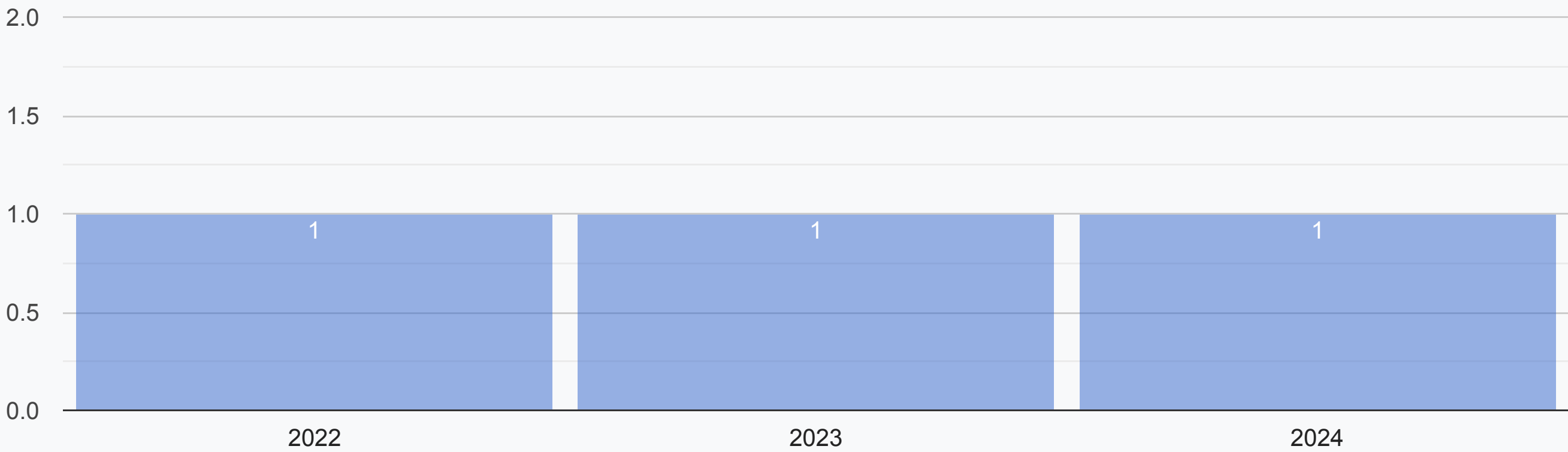


Kinetica-1 launch statistics

Success rate



Annual launches



Images: CAS Space

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Kris Christiaens

This article was published by FutureSpaceFlight founder and chief editor Kris Christiaens. Kris Christiaens has been passionate and fascinated by spaceflight and space exploration all his life and has written hundreds of articles on space projects, the commercial space industry and space missions over the past 20 years for magazines, books and websites. In late 2021, he founded the website FutureSpaceFlight with the goal of promoting new space companies and commercial space projects and compiling news of these start-ups and companies on one website.