

## COMPASS final report: low cost Robotic Lunar Lander



Filesize: 1007.98 KB

### ***Reviews***

*Complete manual! Its such a great study. It really is writter in straightforward phrases rather than hard to understand. You are going to like the way the article writer create this publication.*  
*(Ike Fadel)*

## COMPASS FINAL REPORT: LOW COST ROBOTIC LUNAR LANDER



To save **COMPASS final report: low cost Robotic Lunar Lander** eBook, you should access the hyperlink beneath and save the document or get access to other information that are have conjunction with COMPASS FINAL REPORT: LOW COST ROBOTIC LUNAR LANDER ebook.

No binding. Book Condition: New. This item is printed on demand. Original publisher: Cleveland, Ohio : National Aeronautics and Space Administration, Glenn Research Center, 2010 OCLC Number: (OCoLC)738500910 Excerpt: . . . 2. 5 Small Launch Vehicle Details A number of small class launch vehicles were examined for use in this mission. The Minotaur and Falcon class vehicles were the two that were most appropriate to the launch mass required for the Robotic Lunar Lander. 2. 5. 1 Minotaur Minotaur V is a five-stage evolutionary version of the Minotaur IV space launch vehicle ( SLV ) to provide an extremely cost-effective capability to launch small spacecraft into high-energy trajectories, including geosynchronous transfer orbits ( GTO ) and trans-lunar missions. The first three stages of the Minotaur V are the unmodified Peacekeeper solid rocket motors. The stage four motor is nominally a Star-48GV. The fifth stage can be either attitude controlled or spinning. The attitude-controlled version nominally uses the same Orion-38 motor that has been extensively flight demonstrated on multiple Orbital launch vehicles, including Pegasus, Taurus, and Minotaur I. For a spinning configuration, a Star-37FM is used to provide maximum performance. The Minotaur V avionics, structures, and fairing are common with the Minotaur IV SLV, with relatively minor changes to create the five-stage configuration. Moreover, the avionics and flight software are highly common across all Minotaur family vehicles ( Orbital Sciences Minotaur V Fact Sheet pdf ). Figure 2. 3 shows the projected performance to C values of the Minotaur V launch vehicle taken 3 from the Orbital Sciences Minotaur V Fact Sheet. 2. 5. 2 SpaceX - Alternate Launch Vehicle Option For comparison with the Minotaur launch vehicle family, the SpaceX Falcon launch vehicles were looked at as a possible launcher for this payload. Figure 2. 4 is a graphic...



[Read COMPASS final report: low cost Robotic Lunar Lander Online](#)



[Download PDF COMPASS final report: low cost Robotic Lunar Lander](#)

## Other Books



[PDF] **TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)**

Follow the hyperlink below to download and read "TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)" file.

[Read eBook >](#)



[PDF] **The tunnel book (full two most creative Tong Shujia for European and American media as creating a(Chinese Edition)**

Follow the hyperlink below to download and read "The tunnel book (full two most creative Tong Shujia for European and American media as creating a(Chinese Edition)" file.

[Read eBook >](#)



[PDF] **Read Write Inc. Phonics: Orange Set 4 Storybook 2 I Think I Want to be a Bee**

Follow the hyperlink below to download and read "Read Write Inc. Phonics: Orange Set 4 Storybook 2 I Think I Want to be a Bee" file.

[Read eBook >](#)



[PDF] **Read Write Inc. Phonics: Grey Set 7 Non-Fiction 2 a Flight to New York**

Follow the hyperlink below to download and read "Read Write Inc. Phonics: Grey Set 7 Non-Fiction 2 a Flight to New York" file.

[Read eBook >](#)



[PDF] **Read Write Inc. Phonics: Purple Set 2 Non-Fiction 4 What is it?**

Follow the hyperlink below to download and read "Read Write Inc. Phonics: Purple Set 2 Non-Fiction 4 What is it?" file.

[Read eBook >](#)



[PDF] **Learn at Home:Learn to Read at Home with Bug Club: Pink Pack Featuring Trucktown (Pack of 6 Reading Books with 4 Fiction and 2 Non-fiction)**

Follow the hyperlink below to download and read "Learn at Home:Learn to Read at Home with Bug Club: Pink Pack Featuring Trucktown (Pack of 6 Reading Books with 4 Fiction and 2 Non-fiction)" file.

[Read eBook >](#)