

IAF SPACE TRANSPORTATION SOLUTIONS AND INNOVATIONS SYMPOSIUM (D2)  
Small Launchers: Concepts and Operations (7)

Author: Mrs. Rui Zhang

CAS Space (Guangzhou Zhongke Aerospace Exploration Technology Co., Ltd.), China,  
zhangnrui@caspace.com.cn

Mr. Sihan Yang

CAS Space (Guangzhou Zhongke Aerospace Exploration Technology Co., Ltd.), China,  
yangsihan@caspace.com.cn

Mr. haoliang Yang

CAS Space (Guangzhou Zhongke Aerospace Exploration Technology Co., Ltd.), China,  
yanghaoliang@caspace.com

Mr. jie lian

CAS Space (Guangzhou Zhongke Aerospace Exploration Technology Co., Ltd.), China,  
lianjie@space.com.cn

Mr. yingcheng wang

CAS Space (Guangzhou Zhongke Aerospace Exploration Technology Co., Ltd.), China,  
wangyingcheng@caspace.com.cn

Ms. yuning wang

CAS Space (Guangzhou Zhongke Aerospace Exploration Technology Co., Ltd.), China,  
wangyuning@caspace.com.cn

## DEVELOPMENT STATUS OF THE COMMERCIAL ROCKET:PR-2

**Abstract**

A new Chinese commercial launch vehicle PR-2, developed by Guangzhou Zhongke Aerospace Exploration Technology Co., Ltd. It is the latest in a series of new additions to the PR family, following the introduction of the PR-1 in recent years. The PR-2 is designed to carry a payload of about 1.6 tons to a 500-kilometer polar sun-synchronous orbit, er in the history of the Chinese space program. The new rocket use non-toxic propellants, with kerosene- and hydrogen-fueled engines to replace the older hydrazine-burning engines. Technically, it used commercial engines, industrial components and electric devices etc. to take place the aerospace-grade products with industrial concept and commercial management model in China. This paper reviews of development status of PR-2 and related technologies.