

BUSINESS INNOVATION SYMPOSIUM (E6)
Public/Private Human Access to Space - Supporting Studies (2)

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THE SPECIALTY CONSTRUCTION OF CHINESE AEROSPACE ENTERPRISE: UNDER MARKET
COMPETITION

Abstract

Based on systems engineering, China aerospace industry has becoming increasingly stronger. Remarkable achievement like manned space project, lunar exploration project and so on, have been recognized worldwide during these 50 years. Now, the international space market is becoming more and more competitive, this made Chinese aerospace companies must be relying on the global intellectual resources, focusing on core product, and making further step in cutting down RD cycle, reducing cost, and enhancing the reliability. In recent years, some international aerospace companies have growing up sharply through management innovation and configuration optimization, such as SpaceX, Orbital Science and Virgin Galactic corporations. In addition to bring new challenges, it also inspires Chinese aerospace companies on new developing strategies. This paper analyses the specialty construction configuration, the product RD cycle and the performance of Falcon 9 launch vehicle(SpaceX co.), Boeing 777 and the spaceship of Virgin Galactic. It also raised the disparity and deficiency of China aerospace industry evolution thread for China aerospace's specialty construction under the competitive market. The paper classifies the Chinese aerospace's specialty into core specialty, scarce specialty, general specialty and common specialty, and gives classification standards and developing strategies of example of an orbital transfer launch vehicle, and gives an analysis of the specialty composition which plays a very important role in supporting the RD of the orbital transfer launch vehicle. At last, the paper makes suggestions about giving priority to developing core specialty.