

SPACE TRANSPORTATION SOLUTIONS AND INNOVATIONS SYMPOSIUM (D2)
Launch Vehicles in Service or in Development (1)

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NEW GENERATION LARGE LAUNCH VEHICLES OF CHINA

Abstract

In the twenty-first century, major space agencies around the world begin to develop the new generation large launch vehicles, with the common characteristics: large diameter, high capability, less stages, serialization, low cost, high reliability and fast operations. To satisfy the increasing space explorations and achieve the launch vehicle's capability of 25 tons to Low Earth Orbit (LEO) and 14 tons to Geosynchronous Transfer Orbit (GTO), China starts to develop the new generation large launch vehicles to provide high reliability transfer vehicles for the manned space station program, manned lunar program, lunar exploration program etc. This study introduces basic situations for the new generation large launch vehicles of China such as the research background, technical proposals, reliability, adaptability and security. Key Words New generation, large, Launch vehicles