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 Aircraft Landing Gear Drop Test These drop tests, known as the Approach and Landing Test program, used a modified Boeing 747, known as the Shuttle Carrier Aircraft or SCA, to carry Enterprise to an altitude of 15,000 to 30,000 feet (4,600 to 9,100 m). After a series of captive-flight tests in which the orbiter was not released, five free-flight tests were performed in August through October 1977. Drop test - Wikipedia
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 The Landing gear drop test is a dynamic test of simulating aircraft landing impact. The situation of landing gear is obtained by measuring various parameters such as displacement, load, acceleration, force and stain. The more parameters are measured, the more clearly it simulates the situation at landing.
 Experimental Research on Aircraft Landing Gear Drop Test ... Abstract: The structure of a shock absorber based on magnetorheological (MR) damper with a metering pin is proposed, and structure of the magnetic circuit of MR damper is optimized. By drop tests, the damping characteristics of the shock absorber and damping effect are tested. The experimental results show that the shock absorber has the characteristic of a wide damping force adjustment range and lower energy dissipation.
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