



This project is a simulation and teaching laboratory built on the background of B737. The system mainly includes hydraulic power source, hydraulic component test bench, main landing gear structure body of B737 and landing gear extension and brake console. The landing gear extension and brake consoles are powered by a hydraulic power source and output via a hydraulic assembly bench, providing 3,000 psi and 30 L/min of power. The hydraulic oil is aviation blue oil, which is divided into two channels after input to the console: braking (no loop, with display) and retracting (loop with back pressure).

After the system is completed, the whole process of landing gear braking and recovery test can be completed, and various landing gear faults can be simulated. It is mainly used for practical training, experiment and teaching of aircraft maintenance major in aviation colleges and universities.