# Test benches and ground support equipment

**Opto-electronic test benches and mechanical adjustment and assembly devices represent an important role in verifying customer-specific requirements for space applications. For example, the specific device performance parameters need to be test under various loads and environmental conditions.**

Whether it is a device for Earth observation, a telescope for laser communication or a star sensor for controlling the attitude of a satellite, they all have to perform under the extreme conditions and a long period in space.

Environmental tests are necessary to ensure the performance. For this purpose, Jena-Optronik develops special test benches, which are adapted to the customer's requirements, e.g. vibration and shock tests or thermal vacuum tests.

Furthermore, Jena-Optronik develops mechanical and opto-electronic tools for the integration and adjustment of components suitable for use in space: From the smallest component (e.g. adhesive and adjustment devices) to complex devices such as telescopes and spectrometers.

The high performance and complex test benches developed by Jena-Optronik are used to verify optical devices.