

ENSURING SAFETY THROUGH AVIATION TESTING

interface
FORCE MEASUREMENT SOLUTIONS.

Force measurement solutions play a critical role in the aviation industry, ensuring the safety, efficiency, and reliability of aircraft operations. These solutions encompass a range of technologies that enable the accurate measurement of forces exerted on various aircraft components, such as wings, landing gear, and engine mounts. Strain gage load cells, torque transducers and pressure sensors are among the key tools used to contribute to the continuous advancement of aviation technology.

There are hundreds of machines that are used on the production line for the hundreds of thousands of components needed to complete these specialized craft. Interface load cells and torque transducers are found on many of these production and test machines. Our products are used to provide a wealth of insight to guide manufacturers through research, development and final build.

When aircraft are subjected to rigorous testing procedures, engineers and experts ensure the safety of passengers, crew, and cargo while also fine-tuning performance for an exceptional flying experience. They also help to protect the public from the potential dangers of aviation accidents. Interface's high accuracy force measurement products are a necessity in aircraft testing procedures.

U.S. airlines carried 67.1 million systemwide (domestic and international) scheduled service passengers in January 2023 according to the Bureau of Transportation Statistics (BTS).

Aircraft components undergo initial testing using complex simulation systems. Components then get prototyped and subjected to real-world operating conditions to test them to extremes using Interface products. If a component fails it's sent back for re-design, while successful components will be certified.

In 2023, the market size of the airline industry was estimated to be slightly below \$814.5B U.S. dollars. Investing into aircraft innovation is critical. Interface is a provider of precision measurement products for next-gen aviation systems.

