

TiNi Aerospace, Inc.

TiNi Aerospace, Inc. is the foremost manufacturer of aerospace mechanisms employing Shape Memory Alloy (SMA) materials. The most common of which is an alloy of Titanium and Nickel or TiNi, where the company derives its name.

Among the products developed and manufactured are a family of high force release devices called the Frangibolt[®], an array of fast acting Pinpullers, and a host of other SMA Actuators. These devices are used to secure spacecraft deployables during launch and then to release them on command once in orbit.

Typical applications include hold down and release of solar panels, antennae, instrument cover doors, booms, heat shields, radiators, isolation systems, tether experiments, and other spacecraft components. To date we have

manufactured and delivered over 1000 release mechanisms with a perfect On-Orbit track record.

TiNi products have been used on such high profile missions as the Clementine (the first spacecraft to travel to the moon since the Apollo program), the Mars Global Surveyor Spacecraft, and the Lunar Prospector. They have also been used on numerous other commercial and government satellites flown for conducting scientific experimentation, earth observation, and increasingly for telecommunication purposes.

TiNi Aerospace offers the following products and services:

Products

TiNi Aerospace manufactures an array of SMA based release mechanisms for aerospace and military applications (See Product Spec Sheets).

Engineering

TiNi Aerospace provides consultation and R&D support (personnel and facilities) for development of other Shape Memory Alloy products.

Manufacturing

TiNi Aerospace offers high quality machining services for prototype and low volume production of critical aerospace components.



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