



STARFIGHTERS
SPACE

CAPABILITY STATEMENT



Starfighters Space (NYSE American: FJET) is the only company in the world with the commercial capability to fly at sustained Mach 2+ speeds, with a fleet of iconic F-104 aircraft based at NASA's Kennedy Space Center in Florida and the Midland International Air & Space Port in Texas.



AIR LAUNCH

The F-104 can serve as the first stage for air-launch vehicles carrying commercial, government and research payloads, and for weapon system testing. Our own STARLAUNCH™ system is being designed for responsive suborbital and orbital missions from multiple sites.



HYPERSONIC TECHNOLOGY DEVELOPMENT

Our *Wind Tunnel in the Sky™* offers minutes-long exposure to Mach-2+ speeds under real-world atmospheric and aerodynamic pressures. This is a responsive, highly configurable option for testing materials, intake designs, avionics, and other key systems for hypersonic vehicles.



PROFESSIONAL PILOT AND ASTRONAUT TRAINING

As an original 'right stuff' jet, the F-104 was piloted by Mercury, Gemini, and Apollo astronauts including Neal Armstrong. We use it today for supersonic pilot training and to prepare commercial astronauts for the rigors of space launch and reentry.



MATERIALS SCIENCE AND TESTING

The F-104 is a reusable platform for exposing new or experimental materials to high speeds and acceleration, unique thermal loads, dynamic atmospheric pressure levels, variable gravity conditions, and different flight weather conditions.



MICROGRAVITY SCIENCE

The F-104 is capable of achieving up to 45+ seconds of microgravity. We can accommodate research payloads in underwing carriers, and in multiple fuselage compartments offering pressurized, electrified, and human-tended environments.



SPACEFLIGHT HARDWARE VALIDATION

Our aircraft provide an alternative to suborbital launches and parabolic aircraft for testing and validating the design of spaceflight hardware, including can't-fail components for launch vehicles, satellites, space stations, lunar and Mars mission systems.



HUMAN FACTORS & AEROSPACE BIOMEDICAL

The F-104 is a bona fide 'extreme environment' for human factors research, for both pilots and passengers. Our jets have carried human test subjects, prototype pressure suits, biological samples, and experiments measuring human performance in challenging conditions.



AEROSPACE/DEFENSE TECH TESTING

Our jets offer nine underwing, wingtip, and fuselage stations for captive-carry and deployable hardware, for electronic warfare, flight safety systems, telemetry, avionics, and defense electronic technologies. Our jets can also mimic incoming missiles and other threats.



SUPERSONIC REGULATORY DEVELOPMENT

The return of civil supersonic flight in US airspace brings challenges for developing and complying with new regulatory approaches. Our F-104s can be used to refine air traffic management, train regulators and operators, and calibrate/qualify regulatory technologies.



MEDIA SERVICES

Starfighters has supported various television and movie productions at our hangars and in-flight with our historic aircraft. We also participate in airshows and fly-ins, and have conducted fly-overs to commemorate special events.

