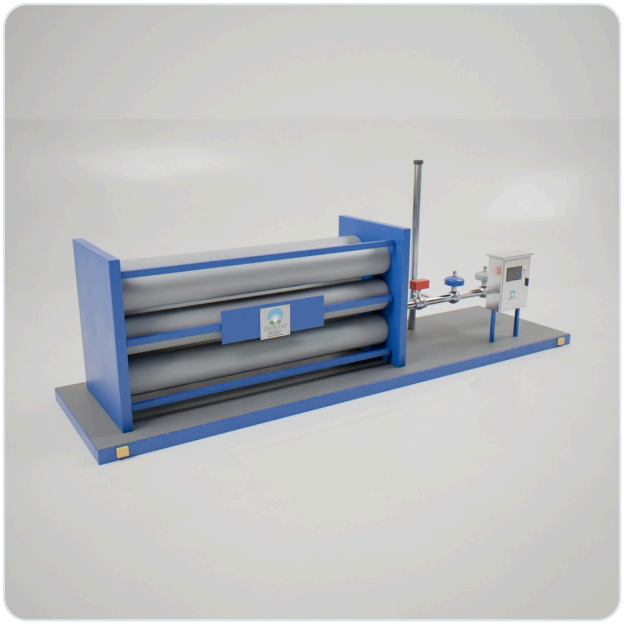
PRODUCT DATASHEET

Engine Test-Stand Gas Package

High-pressure gas supply for engine test stands





DETAIL – GAS CYLINDER BANK

OVERVIEW

The Tech Inc. Engine Test-Stand Gas Package supplies high-pressure helium and nitrogen to rocket engine and propulsion test stands, where engines are fired on the ground for development and acceptance testing. The TI-TSF combines storage, pressure control, purge, pressurisation and command-gas circuits, interconnecting piping and controls in one package at up to 400 bar.

MODELS AND CONFIGURATIONS

- **TI-TSF** – high-pressure gas supply package for rocket engine and propulsion test stands.
- **Helium and nitrogen package** – storage, regulation and distribution for both gases.
- **Nitrogen package** – purge, command and test gas for smaller test cells, to client specification.
- **Upgrade package** – additional circuits or storage for an existing test stand, to client specification.

TYPICAL DESIGN DATA

System pressure	Up to 400 bar, or to client specification
Gases	Helium and nitrogen
Storage capacity	Sized to the test duration and number of runs, to client specification
Circuits	Pressurisation, purge and command gas, with the number to client specification
Controls	PLC with interlocks and signals to the test-stand control system, to client specification
Scope	Storage, boosting, panels, piping, installation and commissioning, to client specification

APPLICATIONS

Liquid rocket engine test stands, propulsion stage tests, component and valve test cells, and ground test facilities for propulsion development.

KEY ADVANTAGES

- **Single gas scope** – storage, boosting, panels and piping engineered as one system
- **High-pressure rating** – helium and nitrogen service up to 400 bar
- **Integrated controls** – PLC interlocks and signals tied into the test-stand control system
- **Modular build** – skids and panels factory tested before installation
- **Site support** – installation, commissioning and operator training by our own engineers

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

Offices: Chennai · Toronto · Tallinn · Al Khobar

mail@techincresearch.com · +1 (289) 622-1032 · www.techincresearch.com

Disclaimer: All products, designs and content are the property of Tech Inc. Tech Inc. reserves the right to change specifications and details without notice. Images are for representation only; the supplied equipment may differ in appearance. Data are typical; final design to client specification.