PRODUCT DATASHEET

High-Pressure Gas Storage and Distribution Skid

24-cylinder high-pressure gas storage skid





DETAIL – REGULATORS AND VALVES

OVERVIEW

The Tech Inc. High-Pressure Gas Storage and Distribution Skid stores helium or nitrogen at up to 400 bar and delivers it at regulated pressure to launch pads, engine test stands and other high-pressure users. The TI-HPS24 holds 24 cylinders in a single frame, manifolded to a distribution panel with isolation, regulation and relief. We design and build the skid around high-pressure cylinders and components from leading makers.

MODELS AND CONFIGURATIONS

- **TI-HPS24** – 24-cylinder gas storage and distribution skid.
- **Helium configuration** – storage for pressurant and leak-test gas.
- **Nitrogen configuration** – storage for purge, command and test gas.
- **Multi-bank configuration** – cylinders split into banks for cascade supply or separate users, to client specification.

TYPICAL DESIGN DATA

Storage pressure	Up to 400 bar, or to client specification
Cylinders	24 per skid, from leading makers, with cylinder size to client specification
Gases	Helium or nitrogen
Outlet pressure and flow	Regulated to client specification
Banks	Number of banks and isolation arrangement to client specification
Controls	Local gauges, or transmitters and remote valves, to client specification
Frame	Structural steel with lifting points and protection, to client specification

APPLICATIONS

Gas storage at rocket launch pads, supply to engine test stands, pressurant and purge gas reserves, and buffer storage for high-pressure helium and nitrogen systems.

KEY ADVANTAGES

- **Compact storage** – 24 cylinders in one frame on a single foundation
- **Regulated distribution** – storage and pressure control on the same skid
- **Bank isolation** – banks can be isolated for recharging or inspection while others stay in service
- **Factory tested** – pressure and leak tested before dispatch
- **Integrates with the gas system** – feeds our servicing rigs, panels and test-stand packages

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

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