PRODUCT DATASHEET

High-Pressure Nitrogen Charging Cart

Mobile nitrogen boosting and charging for struts, accumulators and tyres

Product page





Close-up: booster and charging panel

OVERVIEW

The Tech Inc. High-Pressure Nitrogen Charging Cart charges landing-gear struts, hydraulic accumulators, tyres and gas springs with dry nitrogen at the aircraft, the ship or the machine. Cylinders on the cart feed an air-driven gas booster that raises the pressure to about 350 bar, and a control panel lets the technician set, read and vent the charge pressure safely through fine-adjustment regulators.

TYPICAL DESIGN DATA

Outlet pressure	Up to about 350 bar, adjustable
Gas	Dry, oil-free nitrogen
Booster drive	Compressed air, or electric on request
Codes and standards	Pressure equipment designed to ASME B31.3 practice; hoses and fittings rated with a safety factor of four on burst
Filtration	Inlet and outlet filters to protect the components being charged
Instruments	Test gauges of accuracy class 0.6 or better, relief valves on every pressure stage
Mobility	Pneumatic tyres, brake and tow bar

MODELS AND CAPACITIES

- **TI-NCC-200-2** – about 200 bar, two cylinders, no booster
- **TI-NCC-350-6** – about 350 bar, six cylinders
- **TI-NCC-350-4** – about 350 bar, four cylinders, air-driven booster
- **TI-NCC-350-T** – about 350 bar, trailer with cylinder bank

Indicative outlet pressure and cylinder capacity.

ORDERING CODE

Example **TI-NCC-350-4-A**: **350** maximum outlet pressure, bar; **4** number of cylinders carried; **A** booster drive: A air, E electric, N none.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual. **Options:** electric booster; trailer with larger cylinder bank; digital pressure display with data logging; nitrogen generator to refill cylinders; spare hoses and seal kits.

KEY ADVANTAGES

- **Full pressure** – booster works down to low cylinder pressure
- **Precise** – fine-adjustment regulators and test gauges
- **Safe** – relief on every stage and controlled venting
- **Mobile** – cart or trailer to suit the site

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

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