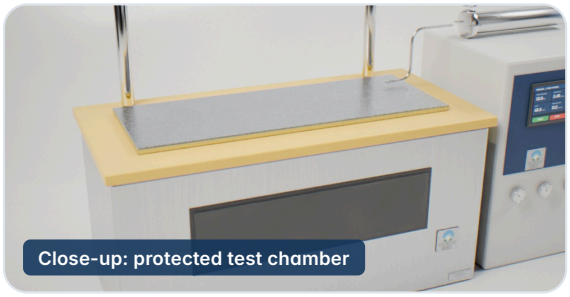
PRODUCT DATASHEET

Cylinder Hydrostatic and Pressure-Cycling Test Bench

Proof, burst and cycling tests for CNG, hydrogen and composite cylinders

Product page





Close-up: protected test chamber

OVERVIEW

The Tech Inc. Cylinder Hydrostatic and Pressure-Cycling Test Bench tests gas cylinders and composite pressure vessels by filling them with water and raising the pressure in a protected chamber. It runs proof and burst tests and thousands of fill-and-empty cycles, and records every curve for the test report.

TYPICAL DESIGN DATA

Test pressure	To about 1,500 bar by model
Cycling rate	Several cycles per minute, set by volume and pressure
Test medium	Water, with heating for elevated-temperature cycling on request
Standards	Test sequences set up to the cylinder standard the client works to
Safety	Interlocked chamber, relief valves, remote operation
Records	Pressure-time curves, cycle counts and PDF reports

MODELS AND CAPACITIES

- **TI-HCB-400** – to about 400 bar, chamber for cylinders up to about 150 L
- **TI-HCB-1500** – to about 1,500 bar, small cylinders and components
- **TI-HCB-1000** – to about 1,000 bar, cylinders up to about 150 L
- **TI-HCB-XL** – long chamber for tubes and tanks up to about 6 m

Indicative maximum test pressure and chamber size.

ORDERING CODE

Example **TI-HCB-1000-C-2**: **1000** maximum test pressure, bar; **C** tests: P proof and leak, B burst, C cycling, A all; **2** number of test stations.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual. **Options:** heated water for elevated-temperature cycling; second test station; volumetric expansion measurement; long chamber for tubes; remote viewing camera.

KEY ADVANTAGES

- **Safe** – interlocked chamber and remote operation
- **Traceable** – curves and reports for every test
- **Repeatable** – automated sequences
- **High pressure** – to about 1,500 bar

How to cite: Cylinder Hydrostatic and Pressure-Cycling Test Bench (model TI-HCB; Tech Inc., Vaughan, Ontario, Canada). www.techincresearch.com/product-page/cylinder-hydrostatic-cycling-test-bench

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.