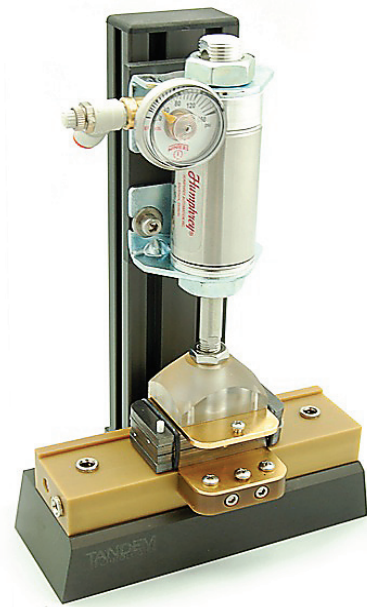


# FUEL CELL HARDWARE

## TP50 & TP5 Research Cells



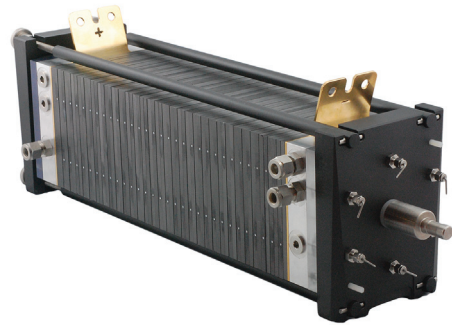
- » Ability for use as a single cell or short stack
- » Special features suited to rapid screening of samples
- » Simple and reliable design
- » Pneumatic piston for even pressure distribution
- » Custom test fixtures designed for your MEA dimensions
- » Unique sealing technology
- » Water heating for uniform temperature control
- » Quick release tie-rods (no tools required)
- » Optional electric heating
- » Optional compatibility with HT-PEM and DMFC

# Features

## TP50 Research Cells

Built on the strong history of PEM fuel cell research at Canada's national labs, the TP-50 is a robust development tool using well established materials, techniques and quick assembly features.

- » Ideally suited for sample screening, R&D and educational purposes.
- » Contains materials that have proven compatibility with PEM fuel cells (Ultem, Niobium, fuel cell grade graphite, stainless steel and silicone).
- » Sealing gaskets are simple and reliable and can accommodate user-supplied MEA's.
- » No tools required for MEA changes.
- » Custom stacks available up to 30+ cells.



## Custom Cells

Greenlight offers custom cell designs to meet specific requirements for MEA geometry, flow field patterns, thermal management techniques and specific compression needs.

- » All cell connections are made to the compression fixture - not the cell.
- » Fluids are in contact with materials that have proven compatibility with fuel cells.
- » Liquid or electric thermal management for even temperature control.
- » Sealing gaskets are simple and reliable to accommodate user-supplied MEA's.
- » Pneumatic piston or spring compression available to accurately maintain cell compression.
- » The cell can be pre-assembled independent of the compression hardware.
- » Single cell or short stack configuration.



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