Greenlight’s Industrial Automation division specializes in the fabrication of custom automation machinery. Available products include:

- Automated test and measurement equipment
- Automated assembly equipment
- Tooling
- Motion control systems
- PLC systems
- Custom machinery
Assembly Press Fixture for Fuel Cell Stacks

» Used for the assembly of full stacks
» Includes either automated or hand operated hand pump
» Tilts down to horizontal, and tilts up to 23 degrees along the axis of the stack

**Equipment Rating**
- Maximum force: 44 kN (or higher)
- Maximum strokes: varies by model
- Press accuracy: ±2.0%

Fuel Cell Laminator Press

» For accurate assembly of multi-layer MEAs
» Also available in a hydraulic cylinder version

**Equipment Rating**
- Maximum force: 120 kN
- Maximum stroke of press: 400mm
- Press accuracy: ±2.0%

Fuel Cell Leak Test Fixture

» Eliminates leaks in cell stacks before final assembly
» Shortens stack assembly cycle time, and enables detection of leaks in plates and electrodes
» Applies sufficient force to allow pressure testing of individual channels in pre-assembly cell stacks
» Tilts on two axes for maximum ease of use

**Equipment Rating**
- Maximum force: 56 kN
- Maximum stroke of press: varies by model
- Press accuracy: ±2.0%

Materials Compression Tester

» Used to test and collect data on carbon fiber substrate or entire electrode
» while varying the amount of pressure

**Equipment Rating**
- Maximum force: 2kN
- Maximum stroke of press: 40 mm
- Maximum size of sample: 300mm x 700mm
- Accuracy of thickness measurement: ±1 micron

Automated Manufacturing Equipment

**Inspection equipment, fixtureing and tooling, including:**

» Progressive dies
» Cap crimping machines
» Electrolyte wetting machines
» Conveyors
» Handling machinery
» Pick and place machines
» Cell testers
» Pack testers
» Laminators
» Slitters/rewinders
» Coating machines
» Data collections systems