

## H-6690 Engine Test Bed Demonstrator

### Purpose

The Hampden **Model H-6690** Engine Test Bed Demonstrator provides a high quality dynamometer system for the analysis of a internal combustion engine. The test Bed is a compact, self contained system and incorporates a DC dynamometer with an AC solid state control unit that provides full starting and monitoring services. The DC dynamometer is trunnion mounted and coupled to a spring balance. The engine is a tecumseh horizontal mount over head valve 8Hp engine.

### Specifications

- **Base:** Welded square mechanical steel tubing finished in instrument tan texture.
- **Control Panel:**  
*Enclosure:* 14-gauge steel finished in instrument tan texture.  
*Panel:* 11-gauge furniture steel finished in instrument white enamel.  
*Nomenclature:* Silk-screen, black KEM enamel.
- **Dynamometer:**
  - 8Hp
  - 1800 RPM (nominal)
  - Trunnion Bearing Mount
  - Armature Volts 125
  - Field Volts 125
  - Load Cell

#### ■ Engine:

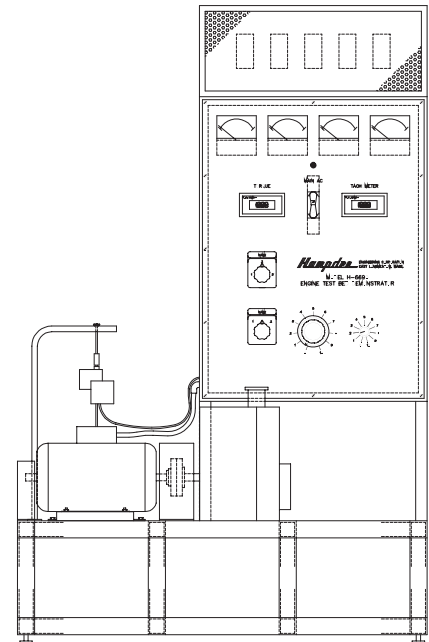
- 8Hp Tecumseh Power Sport
- Over Head Valve
- Electronic Starter
- Large Non-rusting Fuel Tank (26 oz.)
- Cast Iron Sleeve
- Paper Air Filter
- Mesh In-line Fuel Filter

#### ■ AC Solid State Control Unit:

- DC Power Supply
- Voltmeters (3)
- Ammeter
- Variable Transformer
- Circuit Breaker with Pilot Light
- Resistive Load Bank
- Digital Tachometer
- Digital Torque Indicator

### Services Required

220V AC-1 $\phi$ -60Hz



**Model H-6690**  
Engine Test Bed Demonstrator

### Computer Data Logging

This feature adds digital meters and one interface package containing National Instruments I/O modules provided for interfacing with a PC through the RS-232 port. Templates for LabVIEW® control software are included.

Specify **Model H-6690-CDL**

All Hampden units are available for operation at any voltage or frequency

**Hampden**  
ENGINEERING CORPORATION