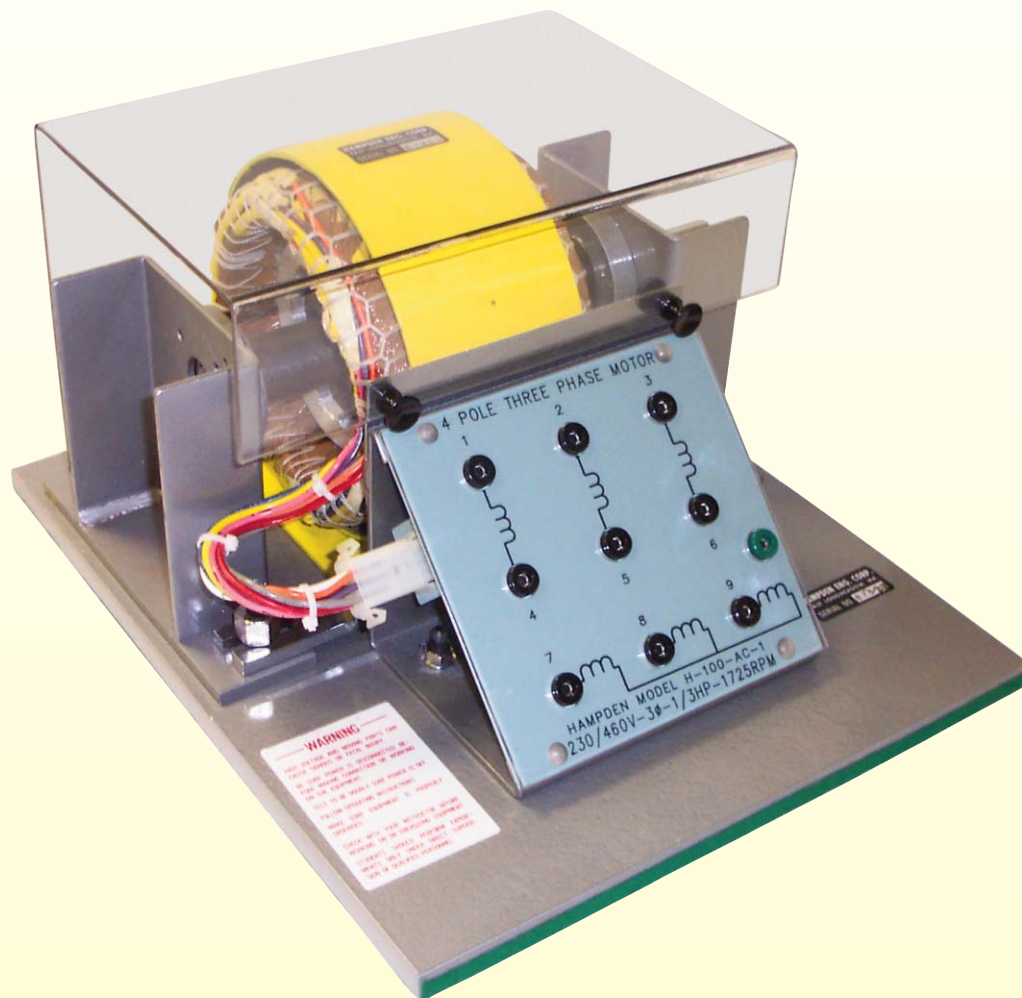


# HDI

## HAMPDEN DISSECTIBLE MOTORS



HDI-100 DISSECTIBLE MOTORS

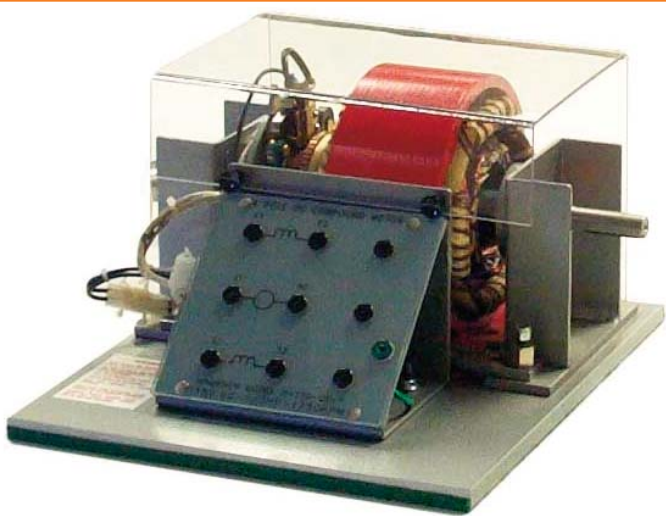
Extend Hampden Series 100 Rotating Electrical Machines Program with Series HDI-100 Dissectible Motors

Series HDI-100  
Hampden Dissectible Motors

Hampden's Dissectible Motors, **Series HDI-100**, are a versatile aid in teaching the construction, principle of operation, and operating characteristics of fractional horsepower motors. Their versatility makes them a practical complement to the Hampden Series 100 Rotating Electrical Machines Program.

The four stators and corresponding rotors of Hampden's Dissectible Motors are the same ones used in standard industrial motors. This architecture provides the student with realistic construction and operating characteristics. Commutator, brushes, centrifugal switch, etc., may all be observed during operation.

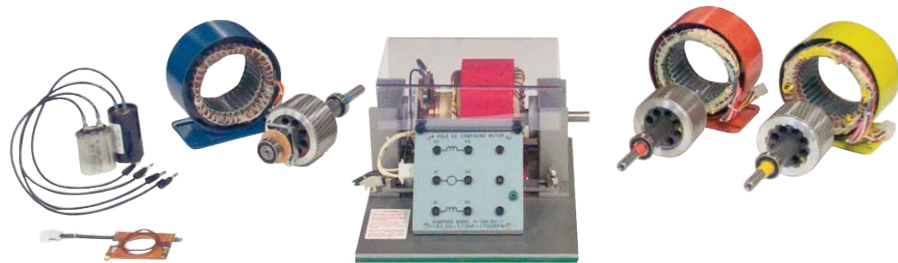
Each motor assembles in minutes. First the student clamps the selected stator on the terminal panel/base. Next, the rotor is inserted and held in position by specially designed end bells. A coupling flange is then secured to the motor shaft. The student then chooses the terminal panel overlay for that motor and begins the experimentation.



The motor program includes the following four motors:

- DC Motor
- Single-Phase AC Squirrel-Cage Induction Motor
- Three-phase, Four-Pole Squirrel-Cage Induction Motor
- Three-phase, Two-Pole Squirrel-Cage Induction Motor

Hampden Dissectible Motors include DC and Single-Phase and Three-Phase AC in fractional horsepower size



WRM-100-HDI  
Dissectible Wound Rotor Motor

The Dissectible Wound Rotor Motor can be used to enhance the study of 3-phase machines. In addition to operating as a wound-rotor or synchronous motor and alternator, the unit functions as an induction regulator or (in pairs) as a power selsyn. A worm-and-wheel assembly and angle indicator are included.

AC-DC POWER SUPPLIES

All Hampden power supplies are circuit breaker protected and supplied complete with cords.

BPS-100-PP-3



The Hampden **Model BPS-100-PP-3** contains power sources whose ranges are compatible with the requirements of Hampden's Series 100 fractional-horsepower rotating machines. Designed for bench-top mounting, the **BPS-100-PP-3** provides all of the fixed and variable AC and DC power supplies required by Hampden's Series 100 fractional-horsepower rotating machines.

The **Model BPS-100-PP-3** requires the following input: 208 volts, 3Ø, 4-wire, 50/60 Hz

BPS-103A



The Hampden **Model BPS-103A** fulfills all of the power requirements of the DC motors and generators, and AC single- and three-phase motors and alternators of the Series 100 complement of fractional-horsepower machines. Each of the variable power supplies is controlled by a separate variable autotransformer.

The **Model BPS-103A** requires the following input: 208 volts, 3Ø, 4-wire, 50/60 Hz.

All Hampden variable power supplies are both primary and secondary circuit breaker protected and are supplied complete with cords.

BPS-101



The Hampden **Model BPS-101** is ideal for electrical labs where a source of variable DC and single-phase AC is required. Built-in AC-DC voltmeter eliminates the need for separate meters to monitor supply output.  
Input power: 120V, 1Ø, 50/60 Hz

All Hampden variable power supplies are both primary and secondary circuit breaker protected and are supplied complete with cords.

BPS-104



The **Model BPS-104** consists of various AC and DC power supplies rated for use with Hampden Series 100 fractional horsepower machines as well as general laboratory use. The **Model BPS-104** consists of one AC ammeter, one AC voltmeter, one DC ammeter, and one DC voltmeter.

Input power of 208/120V, 3Ø, 4W is through a twist-lock power cord supplied with the unit.

Standard Products...Designed to Meet Your Growing Needs!



*Hampden Engineering Corporation*

## *Provide interactive troubleshooting via computer with these Hampden Trainers*

### H-MGI SERIES



The **H-MGI Series** Motor-Generator Interface package provides an all-in-one solution for interfacing motors and machines with any standard PC computer via a USB cable. Templates for many standard fractional and integral motor setups are included with each unit.

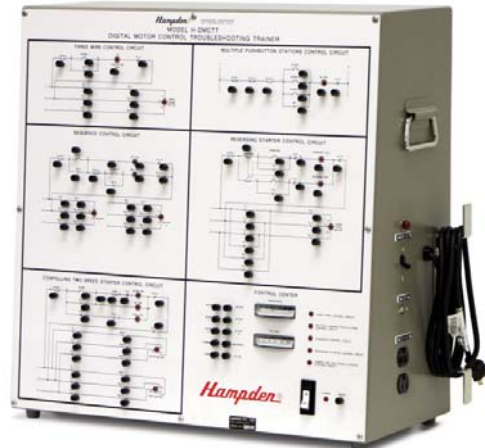
The Hampden **H-MGI Series** Motor-Generator Interface Package is directly compatible with:

- Hampden Series 100 Motors\*
- Hampden H-REM-120\*\*
- Hampden H-REM-1A\*\*
- Hampden Series 2 2Hp Motors\*\*
- Hampden Series 3 3Hp Motors\*\*

\* Specify **Model H-MGI-100**

\*\* Specify **Model H-MGI-REM**

### H-DMCTT



The Hampden **MODEL H-DMCTT** Digital Motor Control Troubleshooting Trainer provides interactive motor control troubleshooting training without bulky hardware and electrical hookups. Student operators are given exposure to connection and operation via computer.

The software includes instructor's set-up program complete with password, master fault list, number of fault identification attempts, and running time with limit option. The troubleshooting program provides both skills and tutorial operation.



Hampden is committed to providing industry-leading technology.

For the latest from Hampden, visit our home page at <http://www.hampden.com> or e-mail us at [sales@hampden.com](mailto:sales@hampden.com)

**Hampden®**  
**ENGINEERING CORPORATION**

99 Shaker Road P.O. Box 563, East Longmeadow, MA 01028-0563 • TEL. (413) 525-3981 • (888) HEC-CORP • FAX (413) 525-4741