

Series 2 Rotating Machine Systems

Educational Training Equipment for the 21st Century

Bulletin 163-1A

Series 2 Rotating Machine System

Purpose

The Hampden **Series 2** Integral Horsepower Rotating Machine System utilizes a modular approach to the study of principles and applications of rotating machines.

The **Series 2** system provides practical training for electrical power in a manner which allows for focusing on specific power and electro-mechanical topics.

Description

All motors and machines are mounted on a tracking system that allows for quick, secure interconnection on a rugged steel test stand, **Model H-TS-60**.

The **Series 2** equipment consists of motors, machines, power supplies and metering appropriately rated for the program, loads and other accessory equipment such as listed on this bulletin.

Machines

- DM-2** DC Machine, 2HP
- SM-2** Synchronous Machine, 2HP
- IM-2** Induction Motor, Wye-Delta 2HP
- WRM-2** Wound Rotor Motor, 2HP
- DYN-2** Electro-dynamometer, 2HP
- H-TG-2** Tachometer with cover
- DSDM-2** Dahlander Motor, 2HP
- MFM-2** Multifunction Motor, 2HP
- REL-2** Synchronous Reluctance Motor, 1.5 HP
- DSIM-2** Dual Speed Induction Motor, 2HP

Loads

- HMRL-3** Resistance Load, 1 ϕ & 3 ϕ , 3kW
- HMIL-3** Inductance Load, 1 ϕ & 3 ϕ , 3kVA
- HMCL-3** Capacitance Load, 1 ϕ & 3 ϕ , 3kVA
- VIL-2** Variable Inertia Load

Metering

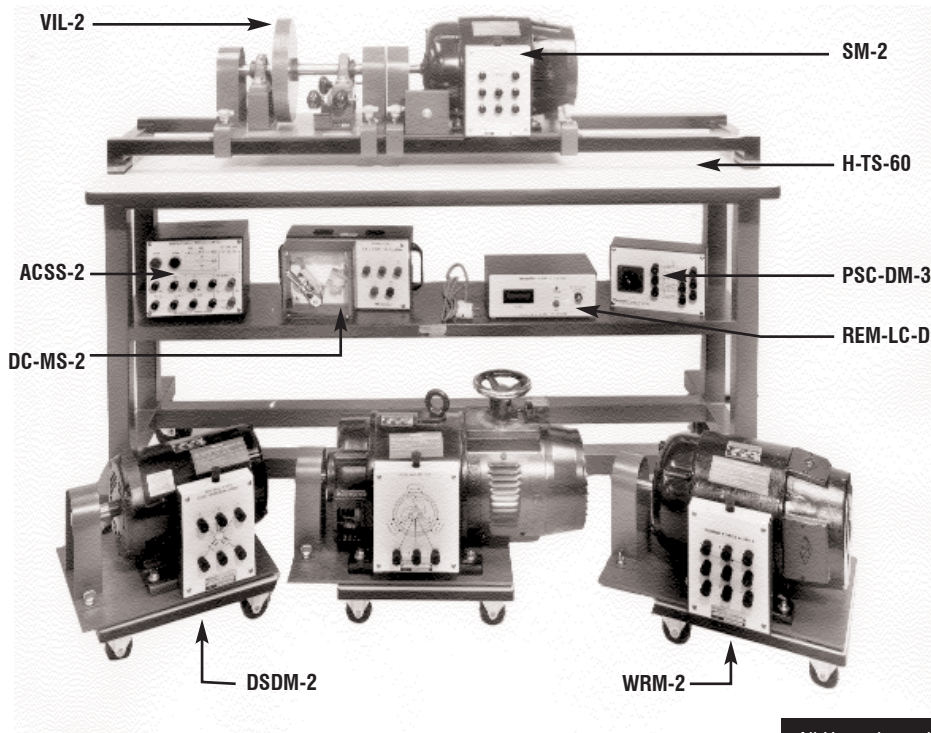
- DCVA-300** Portable DC Meter Panel
- ACVA-300** Portable AC Meter Panel
- ACHZ-120/240** Portable Frequency Meter
- ACWM-3 ϕ -Y** Portable 3 ϕ Wattmeter

Machine Accessories

- HPT-100A** Photo Tachometer w/feedback signal
- DC-MS-2** DC Manual Starter
- WRSC-300** Wound Rotor Speed Controller
- ACSS-2** Synchronous Motor Starter
- H-PSC-DM-3** Dahlander Motor Switch
- SFR-3** Series Field Rheostat
- REM-LC-D** Load Cell with digital readout
- HMR-NR-22016** Mobile AC/DC Power Supply
- H-LS-3PST** Load Switch
- H-MB-60** Mobile Table with shelf
- H-TS-60** Test Stand for machine mounting
- MPR-1** Mobile Machine Pallet Rack
- H-PTC-50AA** Positive Temperature Coefficient Control Module
- H-MTP-1** Machine Thermistor Protection, 1-phase, DC
- H-MTP-3** Machine Thermistor Protection, 3-phase, DC
- H-OSC-2** Overspeed Cutout Switch
- W-WW-2** Worm and Worm Wheel Assembly

Miscellaneous

- SYN-300B** Synchronizing Switch with Meter
- H-TB-3PB** Pushbutton Switch Panel
- 1290B-6C** Dissectible Transformer with **HC-1290** case



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

Hampden
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