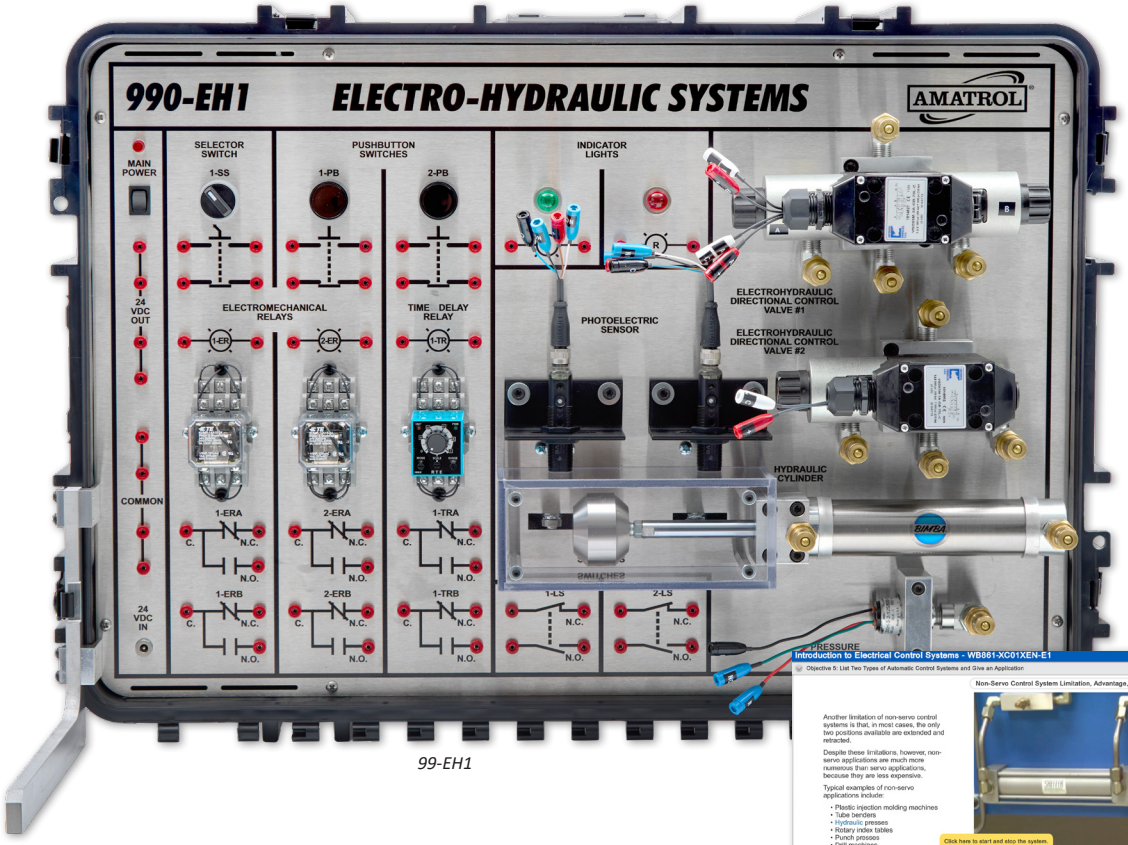
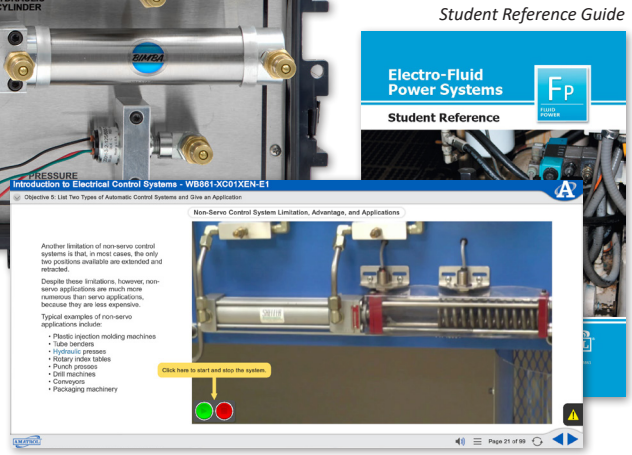
Portable Electro-Hydraulics Learning System

99-EH1

FP
FLUID POWER



99-EH1



Student Reference Guide

Interactive Multimedia Curriculum

Learning Topics:

- Time Sequencing
- Ladder Diagram Schematics
- Electrical Pressure Control
- Electrical Safety Interlocks
- Control Transformers
- Fuses and Circuit Breakers
- Solenoid Operated DCVs
- Pushbuttons
- Selector Switches
- Indicator Lights
- Electrical Motor Control
- Electrical Control Relays
- Time-Delay Relays
- Cylinder Sequencing
- Electrical Safety Interlocks
- Rapid Traverse Slow Feed

Amatrol's Portable Electro-Hydraulics Learning System (99-EH1) teaches electrical relay control of industrial hydraulic applications. Learners will study industry-relevant electro-hydraulic skills including operation, installation, performance analysis, and design. The Portable Electro-Hydraulics training system builds upon the fundamental skills taught by the Portable Basic Hydraulics Learning System (990-BH1).

The Portable Electro-Hydraulics training system includes an electrical control panel with relay control components and an electrical valve module with solenoid-operated hydraulic directional control valves and electrical/electronic sensors. These components will be used to study a variety of topics including electrical control systems, basic control devices, power devices, control relays, sequencing control, timer control, pressure control applications, and circuit applications.

AMATROL®

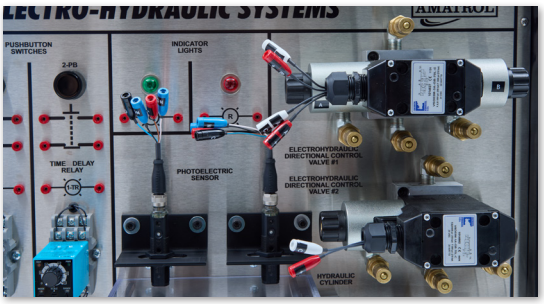
Technical Data

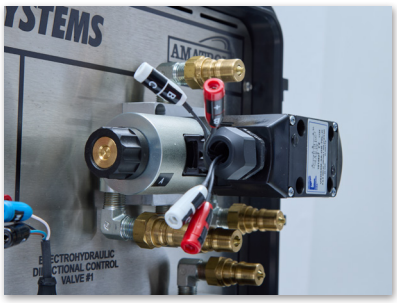
Complete technical specifications available upon request.

Portable Console with Hydraulic Cylinder
Directional Control Valves (2)
Photoelectric Sensors (2)
Pressure Switch
Limit Switches (2)
Timer Delay Relay
Electromechanical Relays (2)
Multimedia Curriculum (MB861)
Instructor's Guide (CB861)
Installation Guide (DB861)
Student Reference Guide (HB861)
Additional Requirements:
Portable Basic Hydraulics Learning System (990-BH1)
Utilities Required:
Electric (100-240 VAC/50-60 Hz/1 phase)

Study Electro-Hydraulics Components and Practice on Real-World Equipment

The Portable Electro-Hydraulics trainer includes a variety of real industrial electrical and hydraulics components, including pushbutton switches, indicator lights, control relays, a timer relay, directional control valves, a pressure switch assembly, limit switch assemblies, and a photoelectric switch assembly. Learners will use these components to set up a variety of industrial relay control circuits using ladder diagrams and Boolean logic. Relay control is a fundamental building block in the study of automation since programmable controllers and solid-state controls also use the same programming methods.

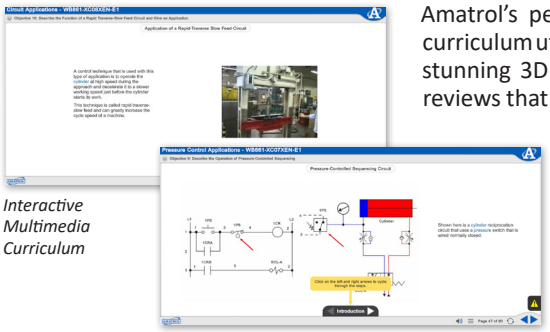




Gain Hands-On Skills with Real Industrial Components

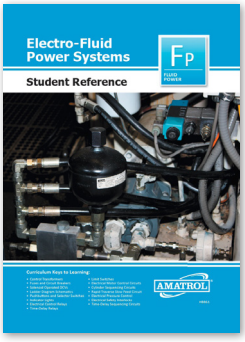
Engaging, Highly Interactive Multimedia Curriculum

Learners using the Portable Electro-Hydraulics trainer will gain in-depth knowledge of electrically controlled hydraulic systems used for industrial applications. This system's eLearning curriculum covers a large selection of electro-hydraulic topics including logic elements, ladder diagrams, solenoid-operated valves, circuit protection, transformers, relay operation and applications, cylinder sequencing, timer applications, and pressure switch operation and applications.



Interactive Multimedia Curriculum

Amatrol's peerless interactive multimedia eLearning curriculum utilizes text with voiceovers, pictures, videos, stunning 3D animations, and interactive quizzes and reviews that engage learners in theoretical knowledge and concepts. This thorough, detailed curriculum begins with the basics and advances to complex concepts. Through partnerships with key industry leaders and leading educators, Amatrol developed the right balance of knowledge to train learners to work in their chosen field.



Student Reference Guide

A sample copy of the Portable Electro-Hydraulics Student Reference Guide is also included with the system for your evaluation. Sourced from the system's curriculum, the Student Reference Guide takes the entire series' technical content contained in the learning objectives and combines them into a convenient student resource. Student Reference Guides supplement this course by providing a condensed, inexpensive reference tool that learners will find invaluable once they finish their training, making it the perfect course takeaway.

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