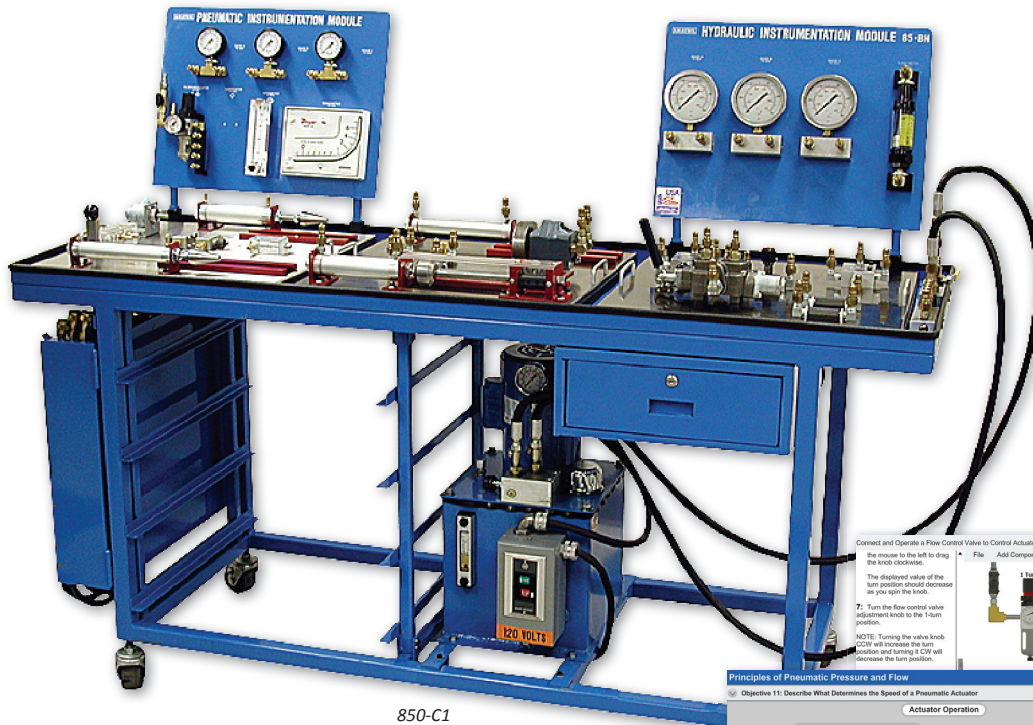
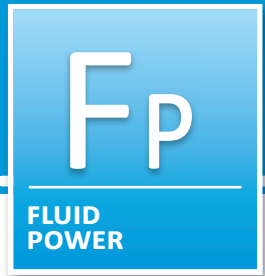


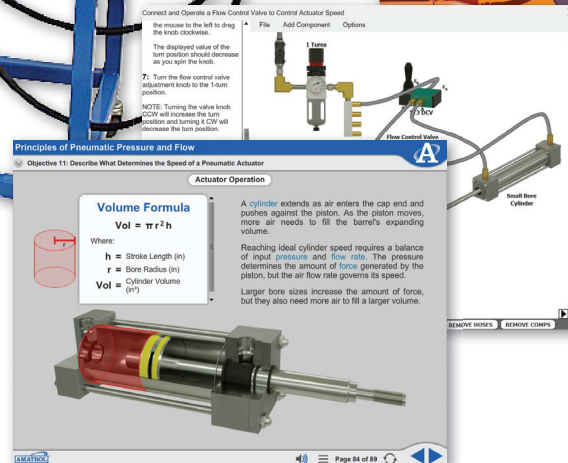
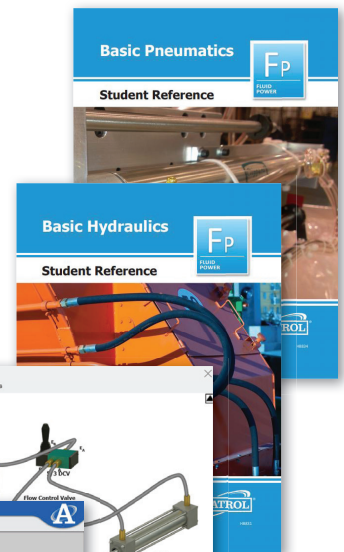
Basic Fluid Power Learning System – Single Surface Bench

850-C1



850-C1

Student Reference Guides



Interactive Multimedia Curriculum & Virtual Trainer

Learning Topics:

- Hydraulic Power Systems
- Basic Hydraulic Circuits
- Principles of Hydraulic Pressure and Flow
- Hydraulic Speed Control
- Pressure Control Circuits
- Pneumatic Power Systems
- Basic Pneumatic Circuits
- Principles of Pneumatic Pressure and Flow
- Pneumatic Speed Control Circuits
- Air Flow Control and Measurement

Amatrol's Basic Fluid Power Learning System – Single Surface Bench (850-C1) teaches learners the fundamentals of two bedrocks of industry: hydraulic and pneumatic power. Hydraulics and pneumatics are used in countless applications throughout industry in fields like automotive, pharmaceutical, packaging, and mining. This fluid power training system includes three panels on its work surface and can store up to four additional panels under the work surface for expanded hydraulic and pneumatic training.

The basic fluid power training system includes a controls technology bench with a hydraulic power supply and Amatrol's basic pneumatics and hydraulics systems. These systems feature industrial-quality components to prepare learners for what they will encounter on the job. Major topics covered by the system's multimedia curriculum include hydraulic and pneumatic power systems, basic hydraulic and pneumatic circuits, principles of pneumatic and hydraulic pressure and flow, and hydraulic and pneumatic speed control.



Technical Data

Complete technical specifications available upon request.

Controls Technology Bench

Hydraulic Power Supply

Basic Hydraulics Actuator Module

- CAM Operators (2)
- Hydraulic Motor Assembly
- Flow Control Assembly
- Flywheel with Key

Basic Hydraulics Valves Module

- Relief/Sequence Valve
- Pressure Reducing Valve Assembly
- Needle Valve Assembly
- Check Valve Assembly
- Directional Control Valve Assembly

Basic Hydraulics Instrumentation Panel

- Flow Meter Assembly
- Gauge and Manifold Assembly

Basic Pneumatics Actuator/Valve Panel

- Air Motor Assembly
- Spring Return Cylinder Assembly
- Flow Control Assembly
- Level-Operated Assembly

Basic Pneumatics Instrumentation Panel

- Pressure Gauge Assembly
- Filter Regulator Assembly
- Rotameter Assembly
- Manometer Assembly

Hydraulic Hose and Fittings Package

Pneumatic Hose and Fittings Package

Bench Manifold Kit

Multimedia Curriculum (NB831/MB834)

Instructor's Guide (CB831/CB834)

Installation Guide (DB831/DB834)

Student Reference Guide (HB831/HB834)

Additional Requirements:

- Hydraulic Oil (16391 or 16393)
- Hand Tool Package (41220)
- Computer (Visit www.amatrol.com/support/computer-requirements for details.)

Utilities Required:

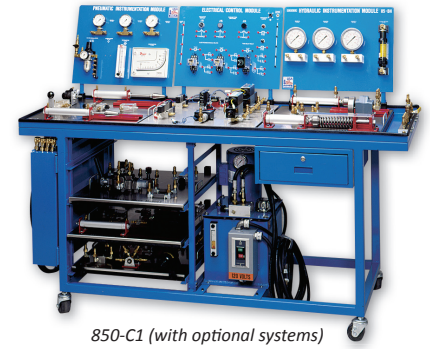
- Electric (110-220 VAC/50-60 Hz/1 phase)
- Compressed Air Supply (2 CFM @ 100 PSIG/0.06 cmm @ 690 kPa)

Options:

- Intermediate Hydraulics (85-IH)
- Advanced Hydraulics (85-AH)
- Electro-Hydraulics (85-EH)
- Intermediate Pneumatics (85-IP)
- Advanced Pneumatics (85-AP)
- Electro-Pneumatics (85-EP)

Study Hydraulic and Pneumatic Components and Practice on Real-World Equipment

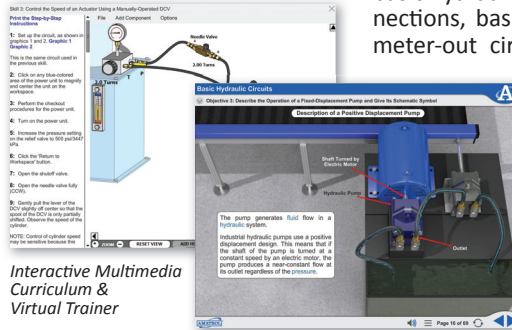
Amatrol's basic fluid power training system features a welded-steel workbench with a hydraulic manifold and power supply and includes the basic hydraulics and pneumatics modules. These systems feature a wide variety of real-world components, including pressure reducing valves, needle valves, check valves, directional control valves, an air motor, a flow control assembly, pressure gauges, and rotameter and manometer assemblies. These industry-standard components allow learners to practice hands-on skills, such as connecting and adjusting the pressure setting of a sequence circuit, designing a hydraulic circuit that uses a pressure reducing valve, and connecting a pneumatic circuit given a schematic.



850-C1 (with optional systems)

Engaging, Highly-Interactive Multimedia

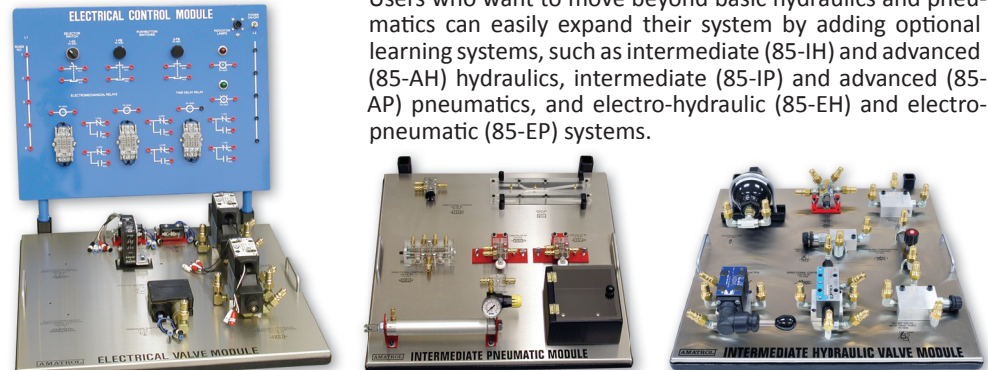
Amatrol's curriculum features a highly-interactive, multimedia format that includes stunning 3D graphics and videos, voiceovers of all text, and interactive quizzes and exercises designed to appeal to learners with different learning styles. The 850-C1 curriculum teaches learners about basic hydraulic and pneumatic concepts, such as circuit connections, basic motor circuits, fluid friction, meter-in and meter-out circuits, pressure reducing valves, schematics, pressure and volume, and flow control valves. The curriculum also features a virtual trainer option that allows learners to gain skills through realistic simulation before using the real equipment. The combination of theoretical knowledge and hands-on skills solidifies understanding and creates a strong basis for pursuing more advanced skills.



Interactive Multimedia Curriculum & Virtual Trainer

Expand Your System To Teach Intermediate and Advanced Hydraulic and Pneumatic Concepts and Skills

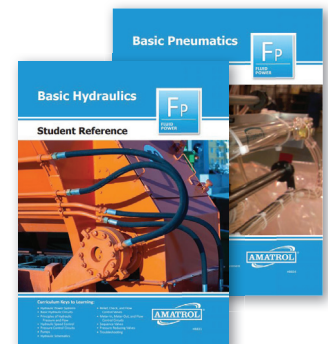
Users who want to move beyond basic hydraulics and pneumatics can easily expand their system by adding optional learning systems, such as intermediate (85-IH) and advanced (85-AH) hydraulics, intermediate (85-IP) and advanced (85-AP) pneumatics, and electro-hydraulic (85-EH) and electro-pneumatic (85-EP) systems.



85-EH, 85-IP, & 85-IH

Student Reference Guide

Sample copies of the Basic Hydraulics and Basic Pneumatics Student Reference Guides are also included with the system for your evaluation. Sourced from the system's curriculum, the Student Reference Guides take the entire series' technical content contained in the learning objectives and combines them into perfectly-bound books. Student Reference Guides supplement this course by providing condensed, inexpensive reference tools that learners will find invaluable once they finish their training, making them the perfect course takeaways.



Certified ISO 9001:2015