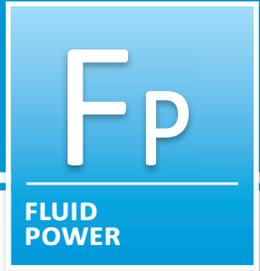


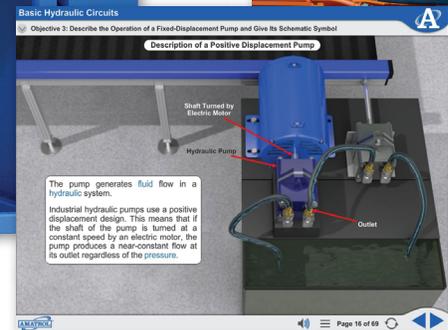
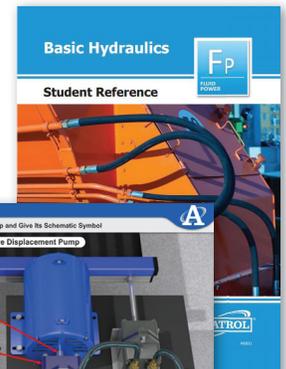
Basic Hydraulics Learning System – Double Sided A-Frame Bench with Two Hydraulic Manifolds

850-HD1



850-HD1 (shown with optional systems)

Student Reference Guide



Interactive Multimedia Curriculum

Learning Topics:

- Hydraulic Power Systems
- Circuit Connections
- Basic Hydraulic Circuits
- Hydraulic Schematics
- Principles of Hydraulic Pressure and Flow
- Fluid Friction
- Hydraulic Speed Control
- Flow Control Valves
- Pressure Control Circuits
- Pressure Reducing Valves

Amatrol's Basic Hydraulics Learning System – Double Sided A-Frame Bench with Two Hydraulic Manifolds (850-HD1) features one set of basic hydraulics panels with the option to add another set to the opposite side to double your training capacity. This basic hydraulics training system introduces industry-relevant hydraulic skills while showing learners how to operate, install, design, and troubleshoot basic hydraulics for various applications.

The 850-HD1 includes a controls technology workbench, a hydraulic power unit, and one set of basic hydraulic panels. The system's industrial-grade hydraulic training components provide learners with real-world experience they would normally only attain on the job. The system also has ample storage slots for additional hydraulic and pneumatic panels that can be added to the system to teach more advanced skills.



Technical Data

Complete technical specifications available upon request.

Double Sided A-Frame Controls Technology Bench

Hydraulic Power Supply

Basic Hydraulic Valve Panel

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

Basic Hydraulic Actuator Panel

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

Basic Hydraulic Instrumentation Panel

- Flow Meter Assembly
- Gauge and Manifold Assembly

Hydraulic Hose and Fittings Package

Bench Manifold Kits (2)

Multimedia Curriculum (VB831)

Instructor's Guide (CB831)

Installation Guide (DB831)

Student Reference Guide (HB831)

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)

Options:

- Basic Hydraulics (85-BH)
- Intermediate Hydraulics (85-IH)
- Advanced Hydraulics (85-AH)
- Electro-Hydraulics (85-EH)
- Basic Pneumatics (85-BP)
- Intermediate Pneumatics (85-IP)
- Advanced Pneumatics (85-AP)
- Electro-Pneumatics (85-EP)
- Electro-Fluid Power Learning System (85-EF)

Study Hydraulic Components and Practice on Real-World Equipment

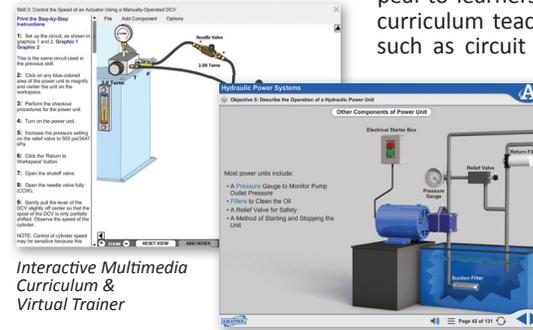
The 850-HD1's double-sided bench maximizes training space by allowing learners to use hydraulic panels on both sides of the system. The hydraulic power unit provides hydraulic fluid flow to both sides of the system where learners practice skills, such as connecting and actuating basic hydraulic circuits. When precise flow rates and measurements are required, the system has the ability to limit the flow to one side or the other. Panels can be easily removed and repositioned, and additional panels can be stored underneath the system. Each end of the 850-HD1 features a hose storage rack that contains all the hydraulic hoses needed to perform required skills.



Double-Sided Bench Maximizes Training Space

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-HD1 curriculum teaches learners about basic hydraulic 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.



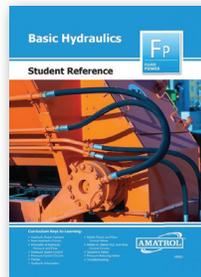
Interactive Multimedia Curriculum & Virtual Trainer

Expand Your System To Teach a Wide Variety of Hydraulic and Pneumatic Concepts and Skills

Users who want to teach basic hydraulics with both sides of the double sided a-frame bench can add an additional basic hydraulics (85-BH) system. Those who want to move beyond basic hydraulics can easily expand their system by adding a variety of optional learning systems: intermediate (85-IH) and advanced (85-AH) hydraulics; basic (85-BP), intermediate (85-IP) and advanced (85-AP) pneumatics; and electro-hydraulic (85-EH), electro-pneumatic (85-EP), and electro-fluid power (85-EF) systems.



850-HD1 (back) (shown with optional systems)



Student Reference Guide

A sample copy of the Basic 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 one perfectly-bound book. 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.

