

uneek

EDUCATIONAL SOLUTIONS



fluidpower
TRAINING INSTITUTE™
www.fpti.org

PROVIDING THE MOST INNOVATIVE SOLUTIONS FOR TEACHING,
AND LEARNING, HYDRAULICS FOR MORE THAN TWO DECADES

INFORMATION BROCHURE

www.UneekEducationalSolutions.com

COMPANY PROFILE

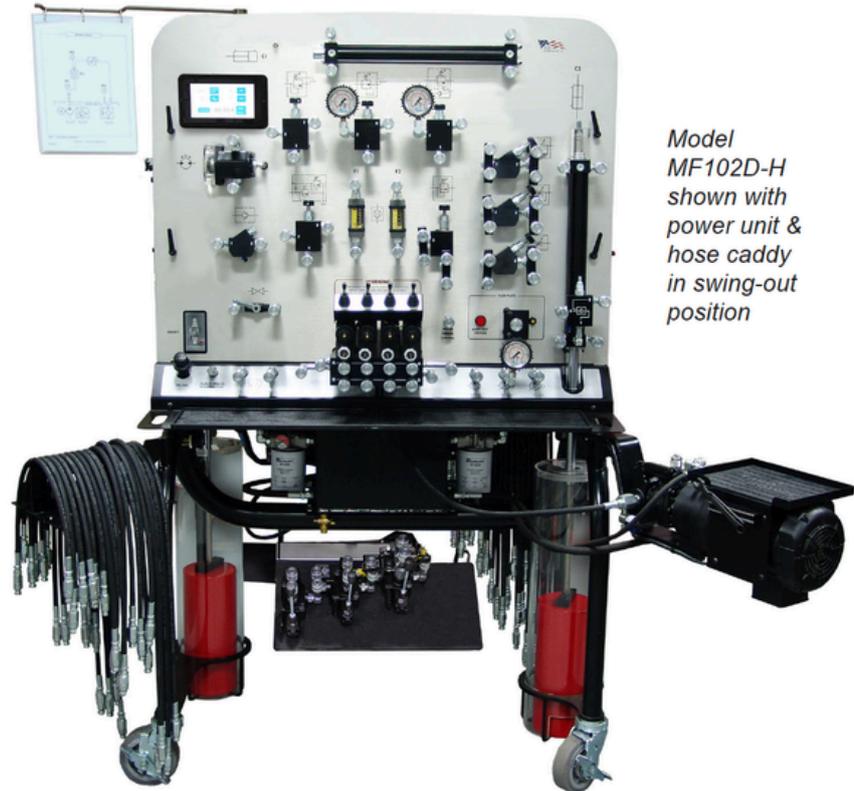


On behalf of my amazing colleagues, we welcome you to our website, a window that lets you see deep into the heart and soul of the most passionate fluid power training company in the world. Our site will show you what a handful of people can achieve when they have a common goal – give students the knowledge they need to become brilliant fluid power technicians. However, to create brilliant fluid power technicians you need exceptional teachers. Ask any student what their definition of an exceptional teacher is, and the answer will be unanimous – “Knowledge alone does not an exceptional teacher make. The ability to impart that knowledge is what makes a teacher exceptional.”

I am Rory McLaren, FPTI™’s founder, director, and chief designer. These are titles I earned by co-incidence. However, there is one title that defines my true profession, and certainly, the one of which I am most proud, and that’s “teacher.” Even though we have built an impressive organization, you won’t find me sitting in an office. You will either find me in a classroom, teaching students, or in a Train-the-Trainer workshop teaching my colleagues. What you will find truly amazing about our company is that it was literally built in a classroom. Every training system, PowerPoint™ slide, textbook, DVD, cutaway model, graphic, animation: absolutely everything, came from my profound desire to impart knowledge about fluid power in a manner that made it possible for every student to understand.

www.fpti.org

The MF102-H Training System

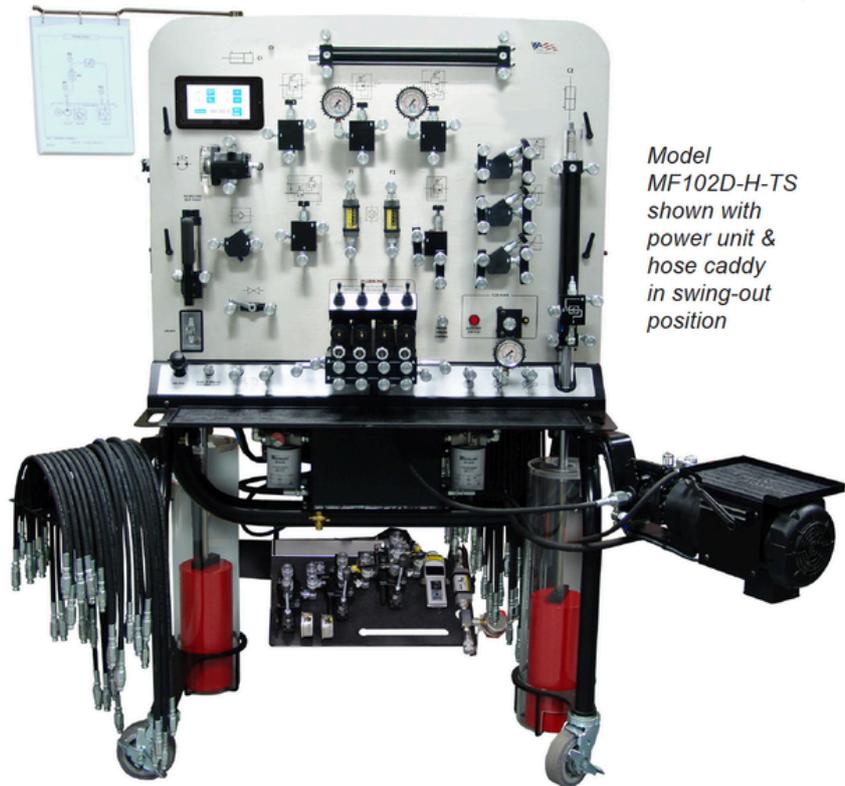


*Model
MF102D-H
shown with
power unit &
hose caddy
in swing-out
position*

The MF102-H is a brilliant “foundation building” training system that is masterfully crafted to help students connect the dots. Pascal’s Law, inertia, power, resistance, pressure differential, series, parallel – theory, it’s all so confusing if the students can’t apply it, yet it’s the very foundation upon which their knowledge of hydraulics is built.

Combines theory with practice brilliantly - The MF102 combines theory with practice brilliantly. Every training system activity has a defined learning outcome. However, each consecutive activity is so brilliantly engineered that 10% of the activity relates to the new topic and 90% is critical reinforcement.

MF102-H-TS Training System



*Model
MF102D-H-TS
shown with
power unit &
hose caddy
in swing-out
position*

The Model 102-H-TS has the same features and capabilities as the models MF102-H and MF102-H-TSE. The letters “TS” denote troubleshooting. The only difference between the “TS” and “TSE” models is that the “TS” model has manually controlled faults which are entered on the panel-mounted screen and the “TSE” model has electronically controlled faults which are automatically entered via the touchscreen.

The “TSE” model is equipped with an on-board panel PC and a 19” (48cm) touchscreen. The MF102 series training systems are FPTI™’s flagship models and are undoubtedly our best-selling products.

Hydraulic Training Systems

In collaboration with industry and education FPTI™ developed a much-needed solution - It took FPTI™ over ten years to develop the most effective hydraulic training system on the planet. In the hands of a properly trained teacher the model MF102-H-TSE training system has the power to turn ordinary technicians into extraordinary hydraulic technicians because they will have the skillsets needed to revolutionize the industry.



Model MF102D-H-TSE shown with power unit & hose caddy in swing-out position

MF102-H-TSE Training System -

The model 102-H-TSE has the same features and capabilities as the model MF102-H-TS but the letter “E” denotes “electronic troubleshooting.”

This is FPTI™’s flagship, and best-selling, training system loaded with features and benefits you will NEVER find on any other training simulator.

“In a side-by-side comparison we conducted with competitive products that boast troubleshooting capability the MF102-H-TSE outperformed the entire field so convincingly that it was, quite frankly, embarrassing.”

Technical Training Director –
Mine Training Institute

MF200-CAV Pump Cavitation Simulator



A Teaching and Learning Masterpiece -

This exceptional simulator is a teaching and learning masterpiece because it leaves absolutely nothing to the imagination because it can simulate every situation in real time:

- Normal operation at the inlet side of a pump- students will see with a vacuum gauge, flow meter, pressure gauge, and temperature gauge exactly how a well-designed and maintained pump inlet works.
- High inlet restriction – as you operate the “oil-restrictor” valve students will see the pump inlet restriction gradually climbing until the dissolved air comes out of the oil and the pressure causes the loud implosions.

MF300-VCLS Hydrostatic Transmission and Hydraulic Steering Training Simulator



The MF300-VCLS is an extremely versatile 2-in-1 training simulator designed for teaching and learning hydraulic steering and hydrostatic transmissions. The front-end has a fully-functional hydraulic steering system that is identical to those found on articulated machines such as front-end loaders. The rear-end features a fully-functional hydrostatic (hydraulic) transmission identical to those in skid-steer type loaders and many other types of industrial and mobile machinery.

How the Model MF300-VCLS simulator will benefit instructors and students - Hydrostatic Transmissions are widely used in mobile and industrial machinery. Due to problems associated with safety, liability, the environment, cost, floor-space and limited accessibility actual machines are not always available to students for hands-on learning.

MF500-HT-TSE Hydrostatic Transmission Training Simulator



The MF500-HT-TSE is an instructor's "dream-come-true" with respect to teaching state-of-the-art, electronically-controlled hydrostatic transmission systems - hands-on. It can even be driven as if it were on a construction site - in real-time. Driving a skid-steer loader around a construction site and operating the MF500-HT-TSE in the lab amounts to the same thing - without the hazards! The electronically-controlled, infinitely variable, wheel-load system allows students to drive the hydrostatic transmission under any type of operating condition, i.e., up-hill, downhill, level surface - it can even simulate a runaway condition.

MF600-1HP HydraBike – Basic Hydraulics Training System



The 1-HumanPower™, zero-emissions hydraulic training system is designed to help students clearly understand fundamental hydraulics as it relates to horsepower, flow and pressure. It's the only training system that lets students literally see how increases and decreases in pedal speed relates to increases and decreases in actuator speed. Also, the clever use of areas and weights let's students actually see the relationship of pressure to actuator force and torque. Changes in "human-power" in reaction to increases and decreases in pedal speed (flow) and pedal force and torque (pressure) makes it possible for students to relate those changes to input horsepower in a hydraulic system.

MF700-PN Pneumatic Training System



Build completely operational
pneumatic systems

Plug-and-Play component mounting system: All components store neatly along the bottom of the mounting panel. Each component is tagged with its appropriate ISO symbol. The student simply selects the component that corresponds with the symbol on a schematic and constructs the system - it's that simple!

Teach Basic Pneumatics today and Electro-Pneumatics tomorrow: The unique panel design makes it possible to exchange front panels in literally seconds. Simply lift off the upper panel and exchange it with the lower panel - the upper panel is equipped for teaching basic pneumatics, and the upper panel for electropneumatics.

MF900-VETS Vehicle Electrical Training System



With the advances in electronic systems today and their use in automotive systems, instructors need a better way to introduce students, who may have only mechanical backgrounds, to the world of automotive electronics systems. The MF900-VETS is designed to help instructors to help students with:

- Fundamentals of electrical and electronics circuits
- Understanding electrical automotive systems
- Learn automotive starter system
- Learn alternator's battery charging system
- Learn about speed, coolant temperature and oil pressure sensors
- Understand CAN-BUS multiplexing systems (J1939 and OBD-II (*))
- Learn about DTC (Diagnostic Trouble Code)
- Troubleshooting of automotive lighting systems
- Understand the difference between LED and Incandescent Lights
- Learn about automotive electronics modules

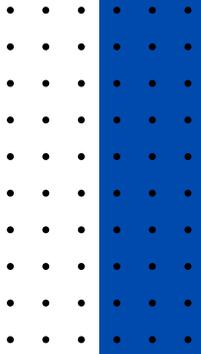


TRAINING FOR TOMORROW

About Us

Introducing Uneek Educational Solutions

We're Uneek ES, and we can't wait to start working together. Your vision is important to us. We're eager to map out the needs of your school, your educators and your students. STEM curriculum is our specialty, so let us help you find the right solutions for tomorrow.



WHAT WE DO

- We are your partner in selecting the right educational programs for your technical focus
- Keep you up to date on new technologies and courses
- Utilize our network of contacts to find a provider that fits your needs

The logo for 'uneek' is displayed in a lowercase, sans-serif font. The letters are a dark orange color. The 'u' is partially obscured by a dark orange rectangular bar that extends from the left edge of the image. The 'n', 'e', 'e', and 'k' are fully visible. The logo is set against a light yellow rectangular background that is slightly offset to the right and bottom relative to the dark orange bar.

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