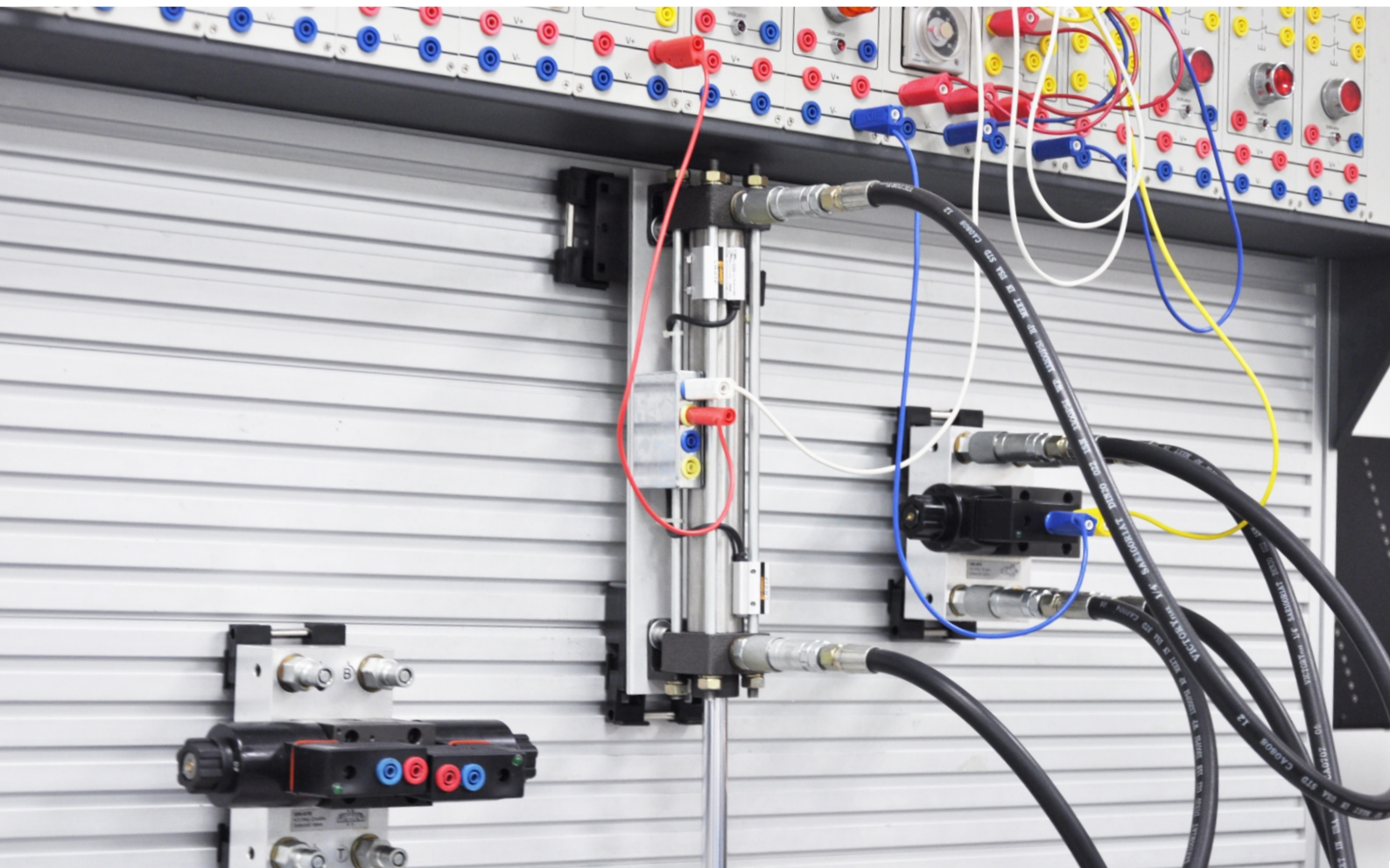


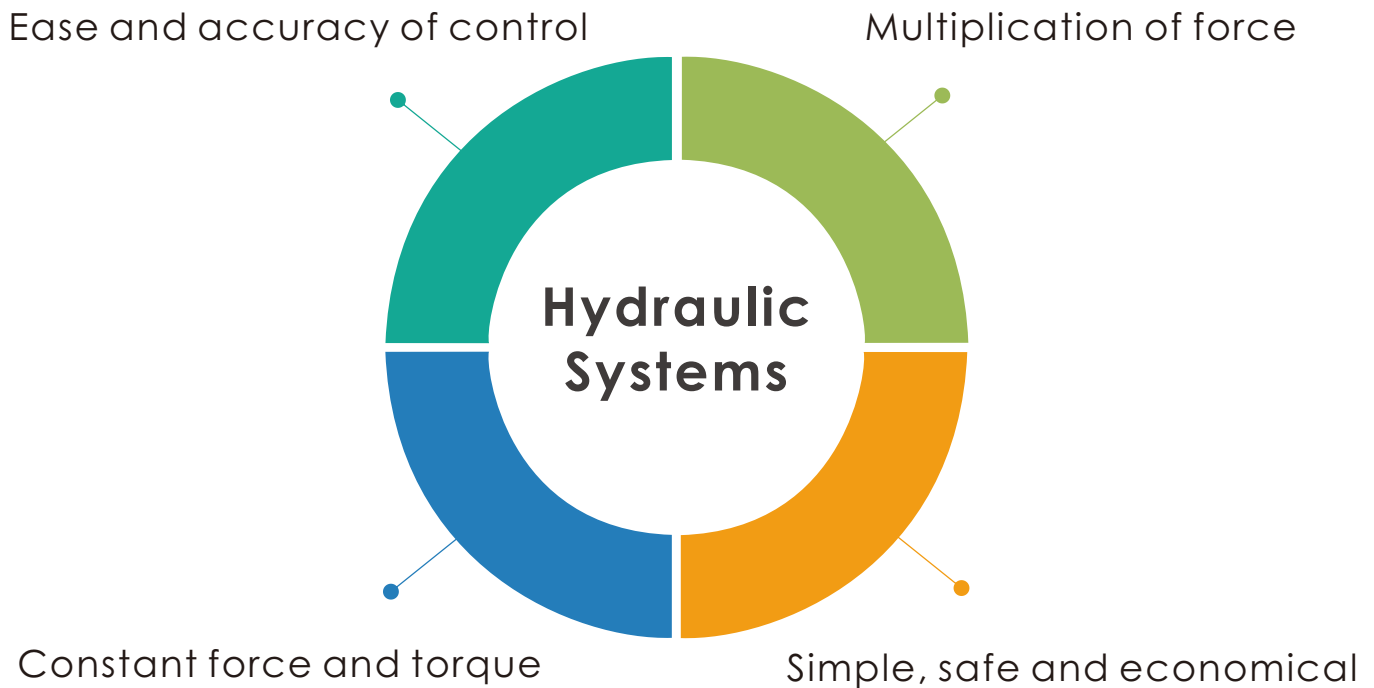
HS-2000 Hydraulic Training System



The hydraulic system uses hydraulic fluid as a working medium and utilizes the pressure energy of the oil to power hydraulic machinery. Hydraulic system can produce large amounts of power, that's why hydraulic is commonly used in heavy equipment.

The “HS-2000” is launched to offer enriched knowledge from basic oil pressure components, advanced oil-pressure loop design to PLC-based electrical control system. The trainee can prepare themselves to be a high-level automation engineer with the help of the “HS-2000” trainer system.

The advantages of hydraulic systems



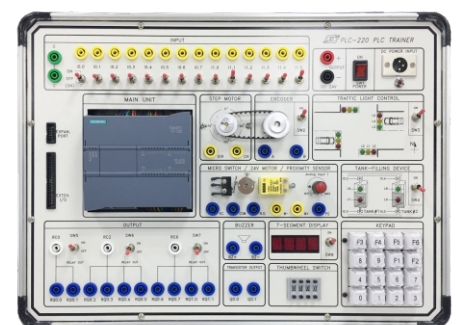
Pneumatic vs Hydraulic

Characteristics	Pneumatic	Hydraulic
Complexity	Simple	Medium
Peak power	High	Very high
Speed	High	Low
Noise	High noise level	Quiet
Utilities	Compressor/power /pipes	Pump/power/pipes
Reliability	Excellent	Good
Operating cost	Medium	High
Rotary actuator	High speed - difficult	Low speed - good
Position actuator	Difficult	Requires additional components and user support



Learning Topic

- Understanding the principles and applications of various oil pressure components
- Advanced oil-pressure loop design
- Training of PLC programming, including architecture, instructions and ladder diagram



PLC Trainer (Optional)
SIEMENS SIMATIC S7-1214C