

Hydraulic Technology Package

Industry Relevant Accessories for State-of-Art, Multidisciplinary, Mechatronics and Automation Training System, Specifically Designed for Educational & Industrial Training Installations.

Mechatronics & Automation is a Synergic mix of Electronics, Electrical, Mechanical, Computer Science and Instrumentation & Controls. It is being increasingly used all across industry for production & quality enhancement.

As a result, industry requires Engineers with multi-disciplinary knowledge to handle automated systems.

With the help of indepth industry knowledge, experience and extensive R & D capabilities, Cybermotion Technologies Pvt. Ltd. has developed different Mechatronics Training Packages. These packages can work as stand alone systems and can also be combined into one completely integrated Mechatronics Laboratory for training of Engineering Students and Industry personnel (Technical).

The Hydraulic Technology Package is one of the Mechatronics Training Packages.

Hydraulics technology plays an important role in today's manufacturing processes, by creating substantial linear forces with relatively small and remote devices.

The study and use of hydraulic technology is thus an important element in preparing students for success in industrial careers and making existing technical Industry personnel aware of these technologies.

The Hydraulic Technology Package enables them to grasp the fundamentals of hydraulic & electro-hydraulically controlled systems (Fluid Power Systems) commonly used in modern automated manufacturing environments through hands-on activities. This package challenges them to design and build hydraulic & electro-hydraulic circuits with actual components.

The Hydraulic Technology Package uses the training panel along with a

wide assortment of industrial grade hydraulic components. Unlike the fixed panel components in some other Hydraulic Technology Package, students/Industry personnel can easily mount and configure components on the hydraulic panel in order to create a variety of applications. They can connect different components, change physical parameters and observe system response.

ATS Hydraulic Technology Package emphasizes real industrial concerns as it takes students/industry personnel through two level of study:

- Hydraulics & advance hydraulics.
- Electro-hydraulics using PLC.

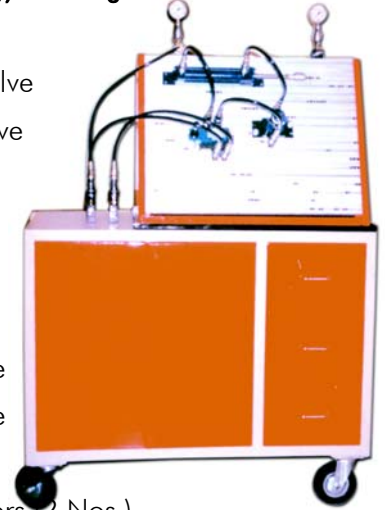
The accompanying curriculum is a combination of textbooks and automation exercises giving the students/industry personnel, state of art industry relevant experience.

Basic Hydraulic Technology Package Includes:

- Profile Plate (800X570)
- Double Acting Cylinder
- Hydraulic Motor
- Power Pack Unit
- Pressure Gauge (3 Nos)
- 4/2 way Hand operated valve
- 4/3 way Hand operated valve
- 4/2 Roller Operated Valve
- T-Connectors
- One Way Flow Control Valve
- Two Way Flow Control Valve
- Shut Off Valve
- Non Return Valve
- Pressure relief Valve
- Pressure sequence Valve
- Mounting Plates for the Above
- Hydraulic User Manual
- Hydraulic Exercise Manual

Electro-Hydraulic Technology Package Includes:

- Double Acting Cylinder
- One Way Flow Control Valve
- Two Way Flow Control Valve
- Non-return Valve - 1 bar
- Pressure Relief Valve
- Pressure Sequence Valve
- 3/2 Single Solenoid Valve
- 4/3 Double Solenoid Valve
- 4/2 Double Solenoid Valve
- T-Connectors
- Capacitive Proximity Sensors (2 Nos.)
- Mounting Plates for the above
- PLC (Programmable Logic Controller)
- PLC Software
- PIC Manual
- Electro-Hydraulic User Manual
- Electro-Hydraulic Exercise Manual



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