Annual Maintenance and Technical Support Plan

Subscribe to our Annual Maintenance and Technical Support Plan which grants you, for a period of one year, exclusive advantages such as:

- Remote Access Licensing (WAN)
- Software Updates, Service Releases, New Versions
- Online Training Session (2 hours)
- Unlimited Technical Support (Phone, Fax, Email, Technical Support Portal)
- Teachware
- Manufacturers’ Catalogues

Libraries and Modules

- Electrotechnical (AC/DC)
- Hydraulics/Proportional Hydraulics
- Pneumatics/Proportional Pneumatics
- Electrical Controls
- PLC Ladder Logic, Allen Bradley™ Siemens™ and IEC 61131
- Sequential Function Chart (SFC/GRAFCET)
- Digital Electronics
- Electrotechnical One-line
- 2D-3D HMI and Control Panels
- Block Diagram-Math
- Fluid Power Component Sizing

- Electrical Component Sizing
- Troubleshooting and Diagnostics
- Mechanical Links
- Catalogue Manager
- Bill of Material and Report
- OPC Client, OPC Server (CAN Bus)
- SFC Compilers, Export to Siemens™ and XML format (Automation Studio™ PLC)
- APIs/Script Language

While Automation Studio™ can be used without training, we offer training programs that provide in-depth knowledge for a wider range of uses. Whether online, on-site, or at our offices, we have the right training for you!
Who are we?

- Hydraulic professionals who create equipments for industrial and mobile hydraulic applications.

Our equipments match with the strongest technical obligations and newest technologies that are used in the industry.

- A link between Industry and Education.

By listening to the requirements of the teachers and professionals we create our didactic equipments.

Our Benches are the missing link between Industry and Education, we allow students to become “Employable Ready”.

- Focus is made on activities and tasks.

Key to learning is the ability to transfer what is taught in the classroom into the real world of industry.

Using our equipments, students from many sectors related to hydraulics such as transport, industry, aviation, agricultural machinery, hydraulic maintenance, mechanics and the like will therefore be able to learn hydraulics in a practical way and use their acquired knowledge in their careers.
Didactic benches SHCO

This bench totally differs from traditional panel type benches as an innovative training bench both in design and presentation. Students can thus do the hydraulic exercises not only in front but also around of the bench.

The bench represents a hydraulic power unit, as a real equipment that you will found in the Industry or mobile engine manufacturers and not as a “model” or hydraulic simulator.

■ Trouble shooting kit
This kit includes components became defective to simulate breakdowns in order to find the consequences on the circuit.

All the knowledge taught is based on tasks, activities and materials. Exercises + corrected exercises can be supplied together with the bench and include teaching of following (but not limited) functions:

- PW1 Pressure limiter
- PW2 Flow limiter inlet
- PW3 Flow limiter outlet
- PW4 Flow regulation
- PW5 Secondary pressure limiter
- PW6 Pressure reducing valve
- PW7 Controlled check valve
- PW8 Constant pressure regulation
- PW9 Load sensing regulation
- PW10 Fixed displacement pump + PG32
- PW11 Variable displacement pump + PVG32
- PW12 Fixed displacement pump + KVM10
Didactic benches SHCO

The SHCO 4.0 bench has the same functionality as the SHCO-V2 + a new generation touch screen PLC.

☑ 3 versions available:
- On-Off,
- Proportional open loop,
- Proportional open loop and closed loop.

Remote Access:
- Pilot the bench from anywhere at any time with a Smartphone, a tablet or a PC.
- Perform remotely configurations through web server, even on the other side of the world: breakdown simulation, analysis & maintenance ...

Digital control of the bench:
- Control hydraulic functions of the bench through touch screen: bench start-up and commissioning, motors and cylinders control, command signal input for hydraulic proportional valves ...
- Data visualization (flow, temperature, pressure, speed, oil level...).

Import & Export, record measurement data:
- Curves, diagrams, values (flow, temperature, pressure, speed, oil level...).

SHCO 4.0

Option CV
Speed control

Option RP
Position control

Option CARDEV
By-pass microfiltration.

Accumulator option
Pressure accumulator

Option R6
Visualization of the phenomenon of daN force / pressure bar.

Option CV
Speed control
Hydraulic Didactic Equipments for Bridging Industry and Education

Didactic benches BHI4

BHI4
- Open or closed circuit,
- Single or double side,
- Industrial or mobile modules.

Completely modular and upgradeable system: the BHI4 is designed to allow industrial components mounted on anodized plates.

Equipped with hoses with quick couplings, this bench allows for wiring circuits in on-off and proportional hydraulics.

To answer to all levels of training, we offer 5 different packs with over 60 available components modules in the catalogue.

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<tr>
<td>Flow</td>
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<td>✓</td>
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<td>Hydraulic wiring</td>
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<td>LS and pressure limiter control</td>
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<td>PLC programming and OPC connection (Automation Studio™)</td>
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</tbody>
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- Training documents + exercises included in Automation Studio Soft
Hydraulic Didactic Equipments for Bridging Industry and Education

**FHTP - Full Hydraulic Training Package**

In order to close the gap between the outputs of higher education and the requirements of the job market, ID System-didactic has created in partnership with the French Ministry of Education a new and revolutionary services: FHTP or Full Hydraulic Training Package

All needed learning materials for the creation of this Hydraulic courses are supplied:

1) **Evaluation of the students**

   3 levels are possible.

2) **Courses and simulation soft Automation Studio™**

   All the knowledge taught to the student becomes directly linked to industry needs and is based on tasks, activities and materials.

   Simulation software Automation Studio™ Educational Edition can be included in the package.


3) **Documented practical exercises, benches, operative parts and accessories**

   Exercises are documented by step-by-step pictures for perfect understanding by the students.

   For each exercise, a sheet is supply and give the procedure, means, expected results, corrected exercise and evaluation.

4) **Validation by French Ministry of Education**

   Final Evaluation is validate by the French Ministry of Education, Académie de Clermont-Ferrand.
Didactic Hydrostatic transmission bench

Didactic bench BHT3

The closed circuit bench with hydrostatic transmission new generation **BHT3** is intended for trainings in mobile hydraulics.

It offers the possibility to understand the basic principles of a closed circuit. It is equipped with a POCLAIN pump with its configured calculator by computer.

All the receivers are coupled to opposing loads or actuators to simulate a resistance force as real mobile machinery.

A data logger kit with flow, pressure and temperature sensors allows taking measurements at different points in the circuit.

Operative part SHDH

This Operative Part **SHDH** is dedicated specifically to the mobile hydraulic trainings.

The SHDH allow to complete trainings to our BHT3 bench in basic principles of a hydrostatic transmission.

Thanks to its drive and wheel motor design, students will understand and analyze more easily external constraints (realized by the mechanical steering on the wheel) on the hydraulic kinematics of a closed circuit.

This operative part is therefore the ideal complement system to our BHT3 bench to gain additional skills and knowledge of a complete hydrostatic transmission.
Hydraulic Didactic Equipments for Bridging Industry and Education

Operative parts

- **Aerial work platform**
  The aerial work platform hydraulic system represents a lifting platform of person with articulated arm.

  It is equipped with hydraulic technologies ON/OFF and proportional with or without control desk and can be connected to SHCO or BHI4 bench.

- **Telescopic crane POGT Manual**

- **Telescopic crane with PLC**
  The operative part POGT with PLC is the replica of a handling telescopic arm.

  Powered by a hydraulic group, it is controlled by a PLC, an electric remote and by a manual hydraulic distributor.

- **Aerial work platform**

- **Telescopic crane POGT with PLC**

**MADE IN FRANCE**
Equipements pédagogiques

Training documents
- Workbook with exercises and corrections,
- Practical works and overview written by teachers,
- Training videos for the bench SHCO,
- CD with start-up manual.

Filtration group
- with particles and humidity counter.

Datalogger
- Flow, pressure, temperature.

Fluids sampling

Fluids analysis

Digital proportional
- Opened and closed loop
Didactic benches and operative parts for specific industries

Didactic benches and operative parts for Aeronautical application:

Our bench have been developed with the valuable feedback of Aeronautic teachers: by listening to their needs, we have developed a bench which makes possible for the students to now understand hydraulic.

- Operative part
  Landing gear control

- Didactic bench*
  Aeronautic maintenance

- Operative part
  Flap control

* In option:
  - Servitude and filtration group
  - ECAM visual PLC screen

On request didactic training equipments