



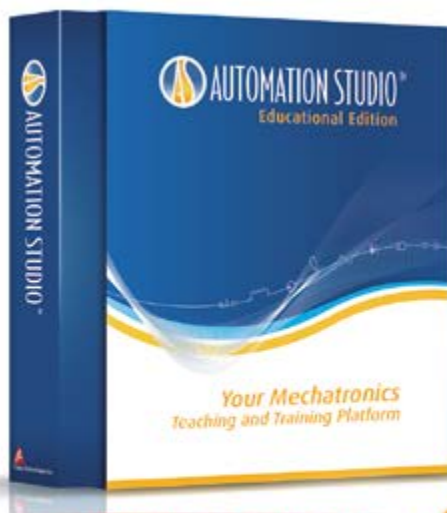
## Libraries and Modules

- Electrotechnical (AC/DC)
- Hydraulics/Proportional Hydraulics
- Pneumatics/Proportional Pneumatics
- Electrical Controls
- PLC Ladder Logic, Allen Bradley Siemens™ and IEC 61131
- Sequential Function Chart (SFC/GRACET)
- 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

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- Software Updates, Service Releases, New Versions
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- Unlimited Technical Support (Phone, Fax, Email, Technical Support Portal)
- Teachware
- Manufacturers' Catalogues



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## Who are we?



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

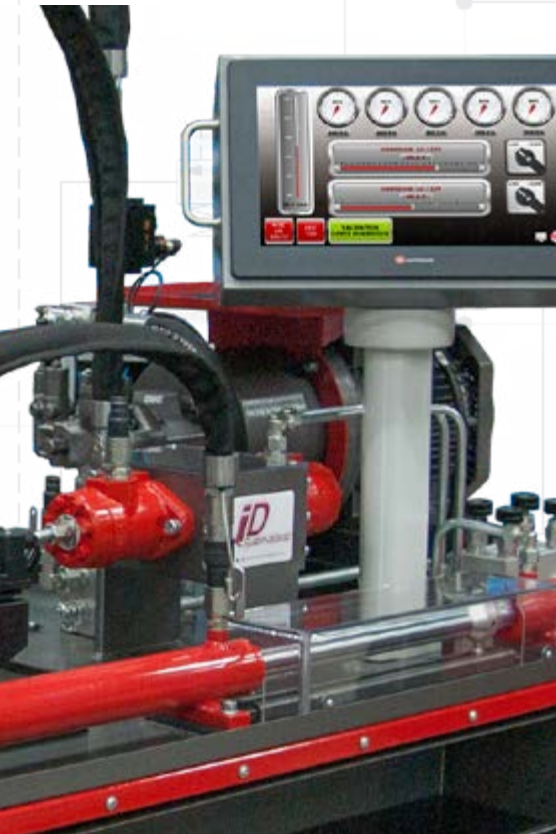
Our equipments match with the strenghtest technical obligations and newest technologies that are used in the industry.



- 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 studends 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.

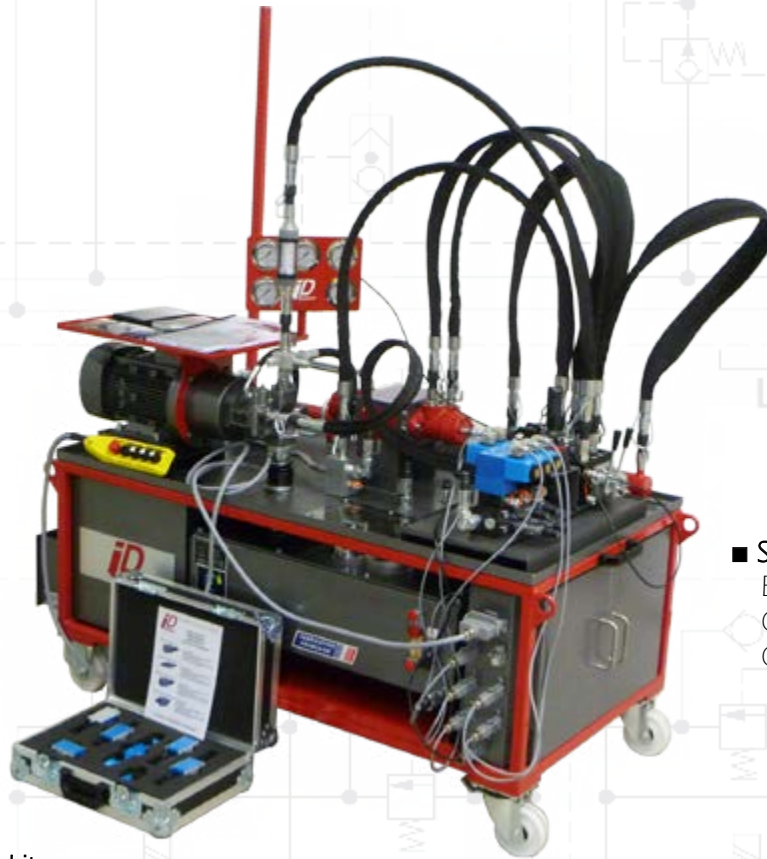
Using our equipments, students from many sectors related to hydraulics such as transport, industry, aviation, agricultural machinery, hydraulic maintenance, mechanics and the like will therefore be able to learn hydraulics in a practical way and use their acquired knowledge in their careers.



## 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.

### ■ SHCO v2

Bench open circuit,  
On/Off or proportional  
Open Loop/Closed Loop



Huile  
biodégradable.

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           | ▶ PW7  | Controlled check valve             |
| ▶ PW2 | Flow limiter inlet         | ▶ PW8  | Constant pressure regulation       |
| ▶ PW3 | Flow limiter outlet        | ▶ PW9  | Load sensing regulation            |
| ▶ PW4 | Flow regulation            | ▶ PW10 | Fixed displacement pump + PG32     |
| ▶ PW5 | Secondary pressure limiter | ▶ PW11 | Variable displacement pump + PVG32 |
| ▶ PW6 | Pressure reducing valve    | ▶ 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,



SHCO 4.0



■ Option CV  
Speed control



■ Option RP  
Position control



■ Accumulator option  
Pressure accumulator



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



■ Option CARDEV  
By-pass microfiltration.

✓ 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...).

## 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.

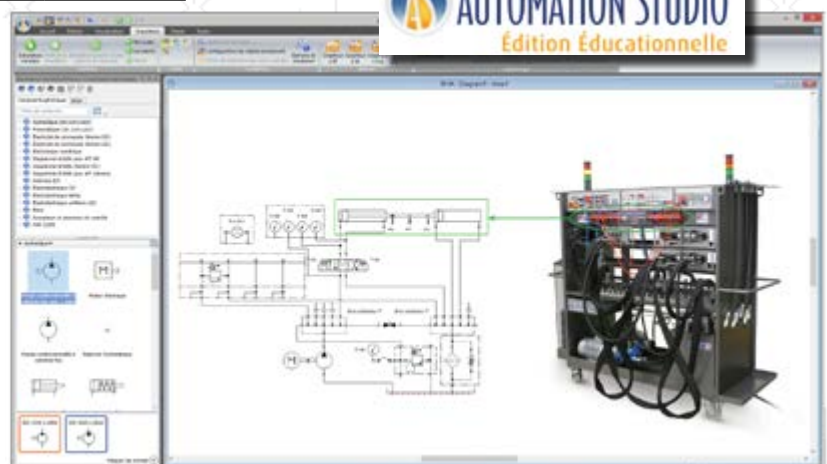
Equipped with hoses with quick couplings, this bench allows for wiring circuits in on-off and proportional hydraulics.

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

Learning process	Options
Pressure	✓
Flow	✓
Hydraulic circuit	✓
Hydraulic wiring	✓
LS and pressure limiter control	✓
Constant pressure control	✓
Fixe and variable displacement	✓
ON/OFF proportional	✓
Open loop and/or closed loop	✓
PLC programming and OPC connection (Automation Studio™)	✓



■ Training documents + exercises included in Automation Studio Soft





## FHTP - Full Hydraulic Training Package

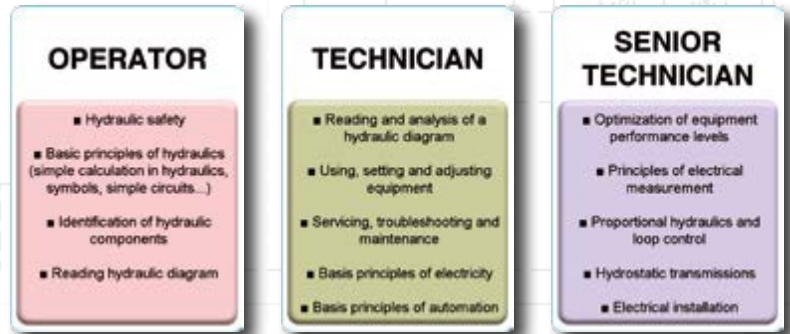
In order to close the gap between the outputs of higher education and the requirements of the job market, ID System-didactic has created in partnership with the French Ministry of Education a new and revolutionary services:

**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.

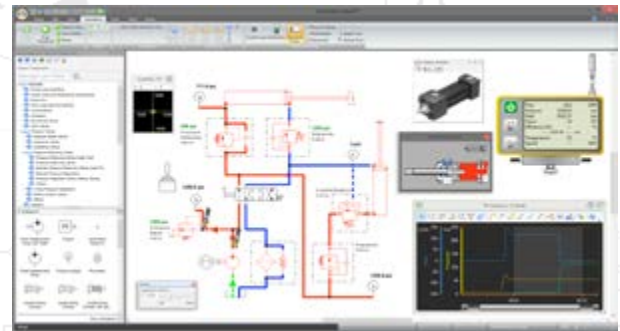


### 2) Courses and simulation soft Automation Studio™

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.

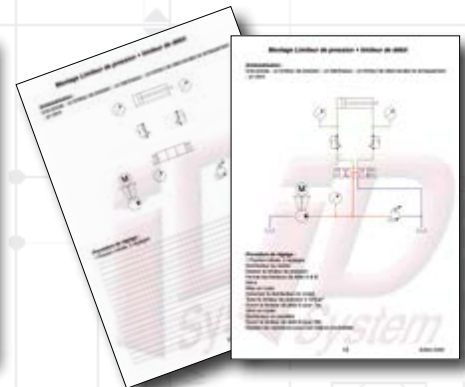
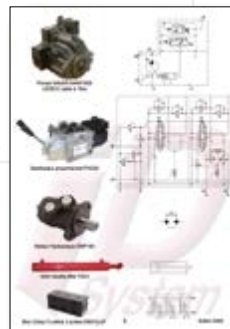
The tool of choice for Teaching, Training and Learning **Hydraulic**, Mechatronics, Automation, Electrical and Fluid Power Engineering Technologies.



### 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.



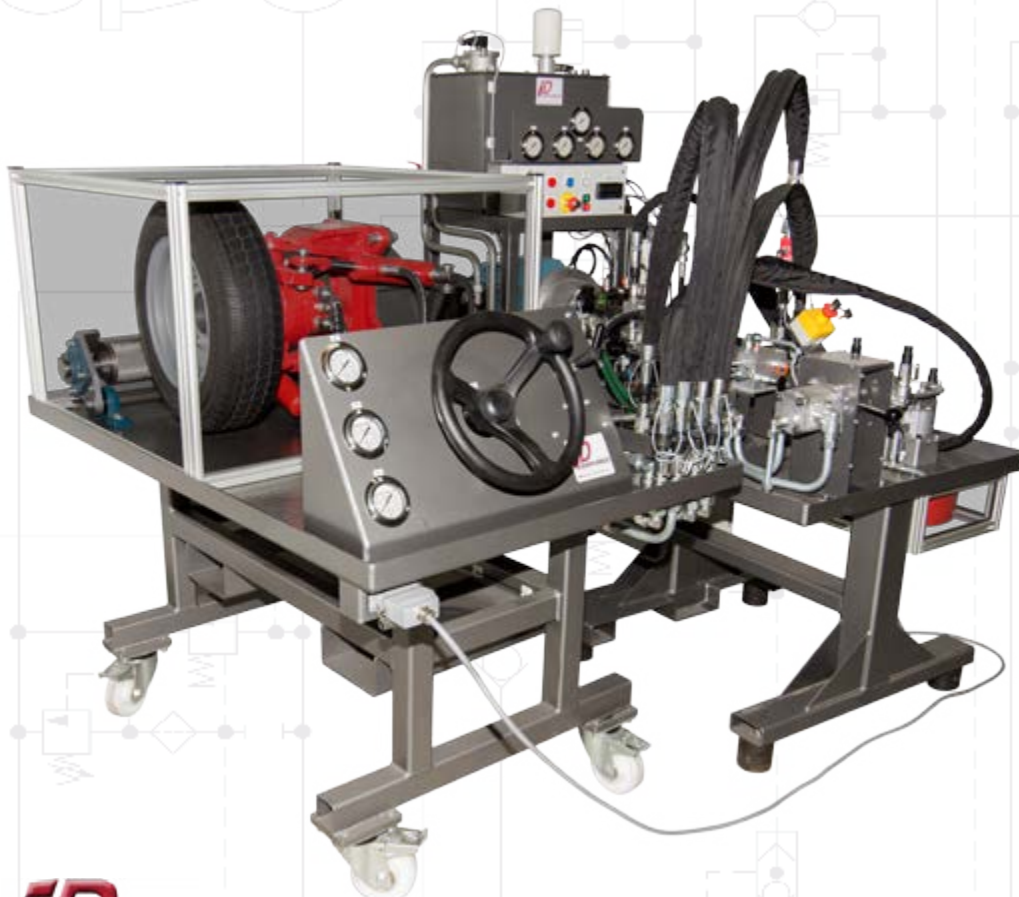
### ■ Operative part SHDH

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.

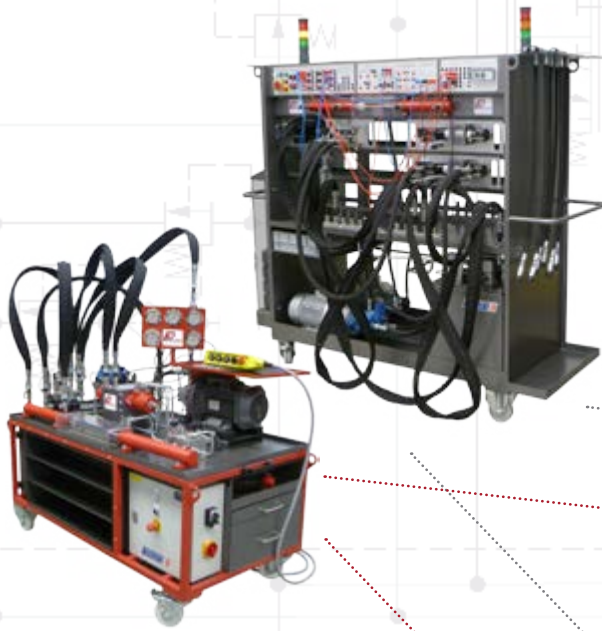
Thanks to its drive and wheel motor design, students will understand and analyze more easily external constraints (realized by the mechanical steering on the wheel) on the hydraulic kinematics of a closed circuit.

This operative part is therefore the ideal complement system to our BHT3 bench to gain additional skills and knowledge of a complete hydrostatic transmission





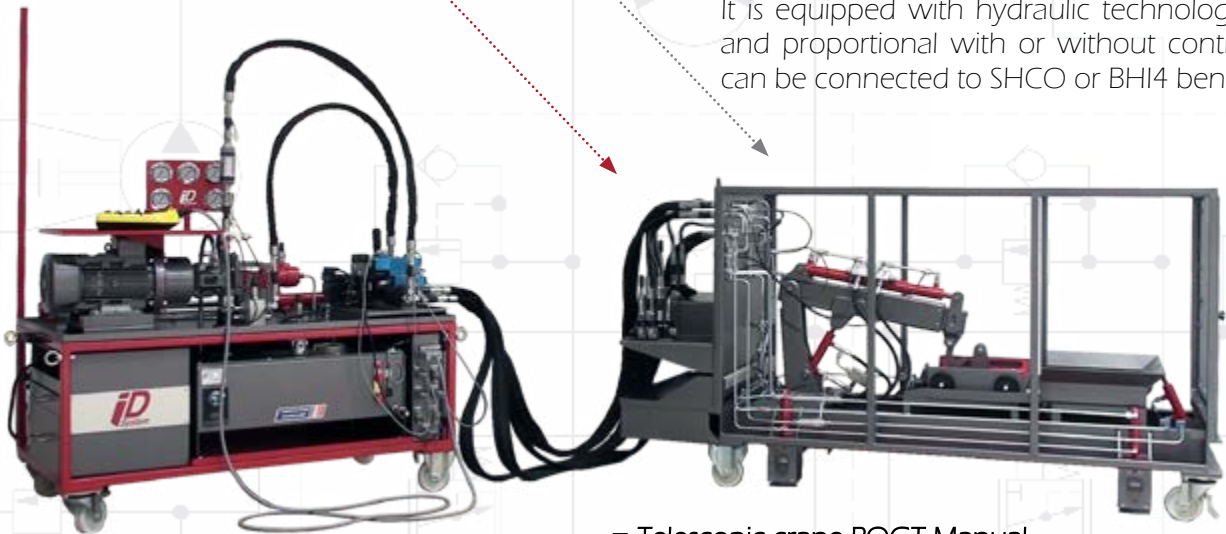
## Operative parts



### ■ 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.



### ■ Telescopique crane POGT with PLC

## 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.



### ■ Fluids sampling



### ■ Fluids analysis



### ■ Filtration group with particles and humidity counter.



### ■ Datalogger Flow, pressure, temperature.



### ■ 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 feed-back of Aeronautic teachers : by listening to their needs, we have developed a bench which make possible for the students to now understand hydraulic.



■ Operative part  
Landing gear control

■ Didactic bench\*  
Aeronautic maintenance

■ Operative part  
Flap control

### ■ On request didactic training equipments

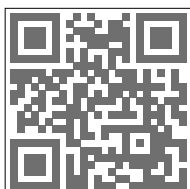


■ Aerial work platform

\* In option:

- Servitude and filtration group
- ECAM visual PLC screen





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