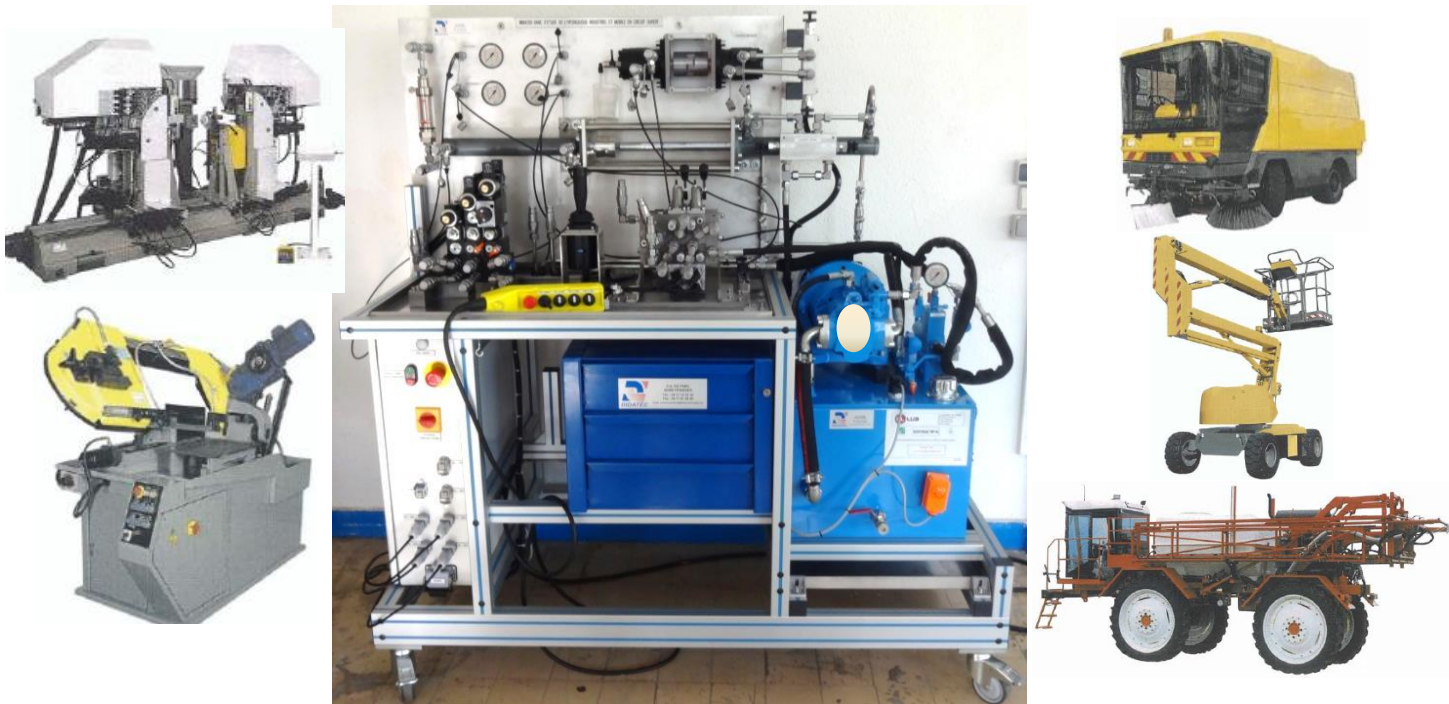


MMH200



INDUSTRIAL AND MOBILE HYDRAULICS STUDY UNIT - OPEN CIRCUITS



Experimental capabilities

- Hydraulic equipment selected of high quality, widely used in industry, public works, etc ... to put in a real situation of the learners.
- Integration of various hydraulic pressure management solutions (differences between the limiters & pressure reducers / proportional pressure limiting)
- Integration of different hydraulic solutions of flow rate management (differences between the limiter & the flow rate controller for comparison of their interest).
- Preventive and corrective maintenance: Cetop3 industrial components for the assembly / disassembly (highlighting the reflection of the hydraulic schematic depending on the type of solenoid valve used)
- Training adapted to the level Bac Pro MEI to BTS

Operating principle

The MMH200 bench allows to implement the study of pressure management solutions and hydraulic flow rate (On/Off and proportional) as well as the hydraulic power distribution (many components of type Cetop 3 provided)
The operative parts, equipped with transparent protective covers, are composed of a double acting cylinder and orbital motors coupled in antagonists manner in order to simulate a variable load during operation (system with double balancing valve and check valves).

The set is powered by a hydraulic unit 3kW, variable displacement piston pump with possibilities of Constant Pressure and LoadSensing. A flowmeter and manometers allow the taking of measurements at many points.

The electrical box incorporates the energy pushbuttons, all the electrical protections and Harting type of connectors to allow control of solenoid valves by a mobile remote control.

The hydraulic connections are done with couplers flat side anti-drip. This system allows to use the MMH200 bench alone or associated with other compatible devices in the range as our independent operating parts inspired by real systems (cylinder "

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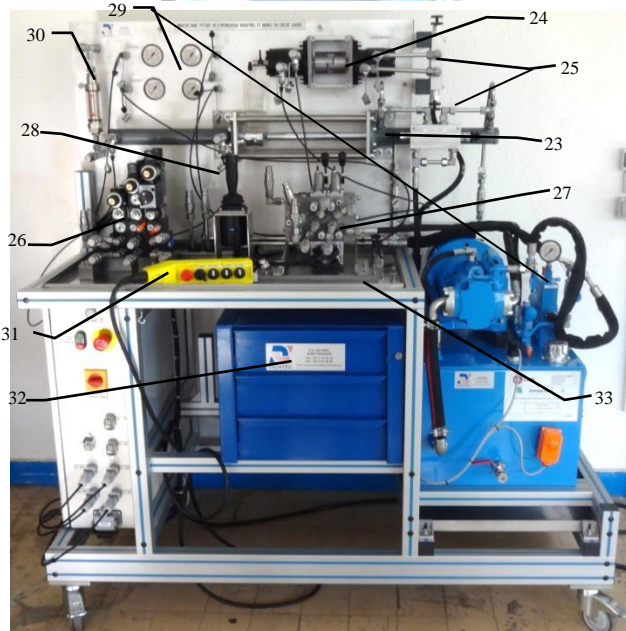
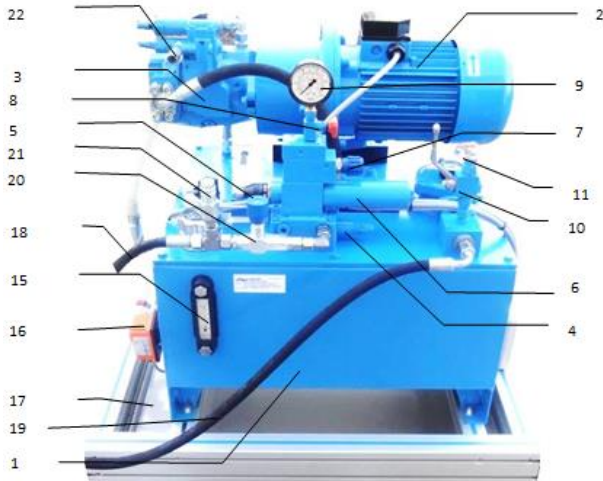
MMH200



load-lifting", "Load tipper" our systems "mixer", "test of pneumatic endurance ", " hydraulic press ", etc ...) from our UAH range
The robust design of this equipment makes it perfectly suited for use in schools.
Its anodized aluminum structure on wheels makes it extremely robust as well as great flexibility of integration into your premises.
The set is equipped with a drip collecting tray directly connected to the tank via a strainer
The manufacturing of this equipment meets the European machine directive

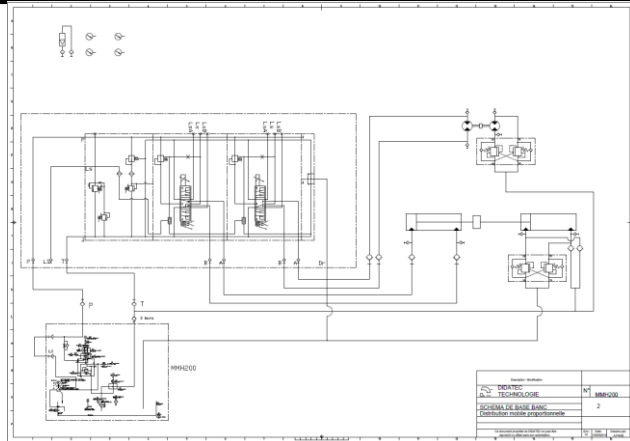
Illustrations

Technical details



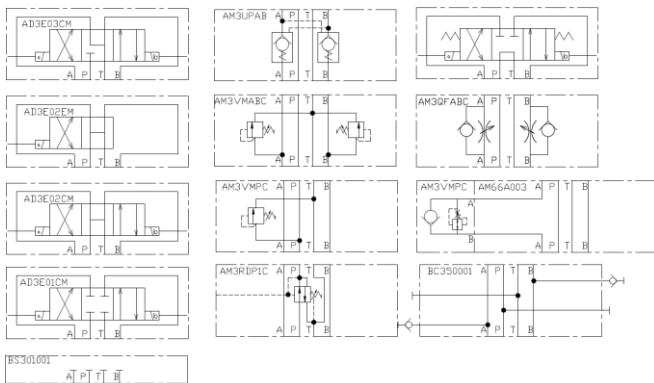
1. Tank 60L
2. Electric motor 3kW – around 1450rev/min - three phase
3. Hydraulic axial piston pump with variable flow rate (or fixed displacement according to settings) with opportunities of Constant Pressure and Load Sensing.
4. Main pressure limiter
5. Clogging indicator of the pressure filter
6. Pressure filter
7. Bypass valve / return to the tarpaulin of the pump outlet
8. Isolation valve
9. Measurement manometer of the pressure in unit outlet
10. Pressure outlet isolation valve on line T
11. Pressure tap on line T
12. Return filter with clogging indicator
13. Filler cap + breather hose
14. Mini level detector in the unit
15. Indicator of visual level
16. Thermostat (set at 70°C)
17. Retention bin of oil drippings
18. Hose to connect on manifold P of the bench
19. Hose to connected to manifolds T of the bench
20. Flow rate limiter: creation of pressure loss at the pump outlet
21. Coupler for connecting of signal hose LS to connect when the LS signal cannot be generated locally on the modules used to perform the control circuit.
22. Pilot port LS (Load Sensing): the hose LS must be connected to the coupler LS of the proportional block HPV41 or to that of the landmark 21 when using Cetop3 block.
23. 2-cylinder, double acting, coupled to simulate a variable load (ability to vary the load during operation)
24. 2 orbital motors coupled to simulate a variable load (ability to vary the load during operation)
25. Dual balancing valves and gaskets: adjusting by knobs of the loads exerted on the actuators
26. Block Cetop3: 3 slots for the controls On/off
27. Proportional distributing valve HPV41 2 blocks with lever
28. Electric proportional manipulator 2 axis joystick type
29. Set of 5 nanometers (one to remain at the unit outlet) equipped with of capillary length 2000mm for pressure measurement and Δp
30. Piston flowmeter equipped with flat face couplers
31. Mobile remote control 5 functions: control distributors
32. Storage store with key, integrated into the chassis for storing Cetop3 components, hardware, tools, connectors, etc ...
33. Large stainless steel container connected to the unit with filter with strainer

MMH200



Accessories included

- 8 Hoses following standard EN8532SN with protective sock and cable as standard EN982, equipped with coupler with flat side anti-drip
- 6 LED connectors with length of 2000mm & quick connector
- 1 Set of 3 closure plates Cetop 3 with screws
- 2 Bases Cetop3 two pressure taps on A & B, a base with pressure tap on P
- 2 Double flow rate limiters on A & B and 1 Limiter with CAR unidirectional
- 1 Double pressure limiter on A & B and 1 Pressure limiter on P
- 2 Pressure reducers
- 1 Flow rate controller + 1 block for different mounting possibilities
- 1 Check valve controlled double on A and B
- Solenoid valves set: 4/2 center in H, 4/3 closed center, 4/3 in H, 4/3 P to A & B on T
- 1 Barrel of biodegradable oil, non-toxic type TMP46
- 1 Bag of 30 gaskets laying plane Cetop 3
- 1 Set of screws CHC of different lengths for mounting on the block
- Tool kit (Allen key, flat screwdriver, graduated beaker 0.5L, etc ...)



Services required

- Alimentation électrique : 400 Vac – 50 Hz – 20 A
- Dimensions: (LxlxH mm): 1600 x 800 x 1700
- Poids (Kg): 350 à vide

Nota : Dans le cadre d'une installation de l'équipement par nos services, tous les raccordements aux réseaux doivent se situer à moins de 2m de la machine

Documentation

- Instruction manual
- Technical file (Documentation suppliers, diagrams)
- Practical work with different examples of hydraulic diagrams and libraries of components provided in 2D
- CE certificate of conformity

Options

- Briefcase for fault finding 7 components
 - Pollution control laboratory
 - Filtration unit
 - Module cylinder load lift
 - Module load tipper
 - Module hydraulic Mixer with mechanically variable load
 - Module hydraulic press
 - Module test bench of tire endurance
 - Regulation study kit composed of:
 - 1 "control" set consisting of a control box with 1 OB/CB control board for flow, pressure, position, 1 set point potentiometer, a setpoint and measured value display
 - 1 set of proportional electro-hydraulic components comprising a proportional distributor, proportional pressure limiter, proportional flow controller
 - 1 set of sensors : 1 speed sensor on the motor + 1 position sensor on the cylinder, software for parameterizing and controlling the control
- This set allows to study the regulation of the open-loop pressure, the regulation of the open-loop speed on the double-acting cylinders, the servocontrol in cylinder position and the control of the speed on the engine.

- Ref: MMH 013
- Ref: MMH 020
- Ref: MMH 100
- Ref: UAH 920
- Ref: UAH 930
- Ref: UAH 940
- Ref: UAH 950
- Ref: UAH 970
- Ref: MMH 210 (S-S MMH200)



- Software for simulation of hydraulic circuits and servos - automation studio (for 1 station). quantity defined on estimate
- Ref: LOG 010

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