

BPH100



OIL PUMPS TRAINING SYSTEM



Experimental capabilities

- Study of four designs of oil pumps
- Study of pump curves
- Power measurement
- Flow measurement
- Pressure measurement
- Speed measurement
- Performance measurement

DIDATEC– Zone d'activité du parc – 42490 FRAISSES- FRANCE
Tél. +33(0)4.77.10.10.10 – Fax+33(0)4.77.61.56.49 – www.didatec-technologie.com
email : service_commercial@didatec-technologie.com

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version : FT-BPH100-STD-D

BPH100



Operating principle

The BPH100 trainer allows the study of four different oil pumps.

It is equipped with four pumps. Students will have to select the different couplings and measure the following characteristics: flow, pressure, rotational speed, electrical power for different operating points.

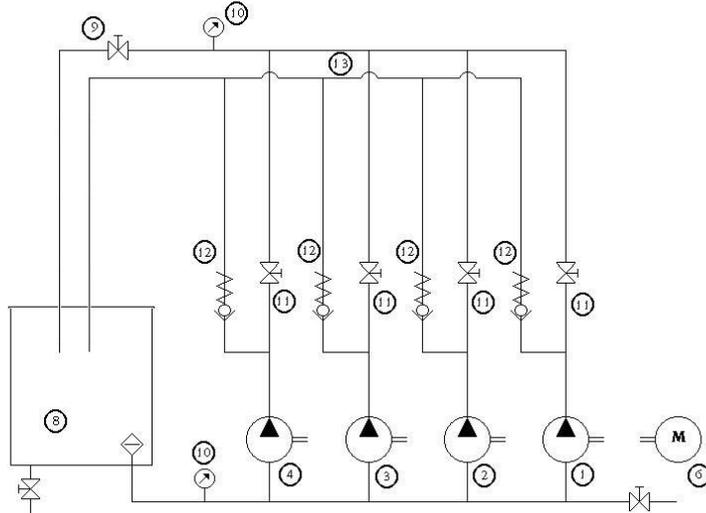
The bench has a tank to work under load and the pumps allow oil to circulate in the circuit.

The rugged design of this equipment makes it perfectly suited for use in schools.

Its anodized aluminum structure on multidirectional wheels with brakes gives it great robustness and flexibility of integration into your premises.

The manufacture of this equipment complies with the European machinery directive.

Illustrations



Technical details

- 1.Pump N°1
- 2.Pump N°2
- 3.Pump N°3
- 4.Pump N°4
- 6.Variable speed motor mounted on slides 1KW mini
- 8.Tank 75 l
- 9.Manual flow control valve
10. Pressure sensors
- 11.Pump isolation valves
- 12.Safety valves
- 13.Hydraulic system
- 14.demonstration gear pump with transparent casing :

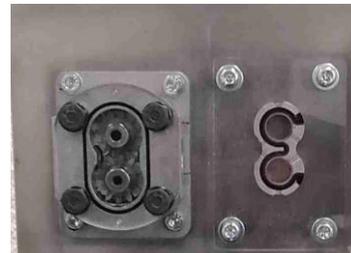
The trainer is installed on an aluminum profile structure equipped with four directional brake casters.

It has an electrical box with general power disconnector and 30mA differential circuit breaker.

Integrated instrumentation:

- two pressure sensors
- an oil flow meter
- Electric power consumed by the engine
- engine rotation speed

The measurements are displayed on a 7" color touch screen.



Services required

- Electrical supply : 230 Vac – 50 Hz – 16 A
- Electrical network : 1 phase(s) + Neutral + Earth.
- Hydraulic oil supply: 70L
- Dimensions: (LxWxH mm): 1645 x 800 x 1805
- weight (Kg): 160

Note : if the equipment installation is operated by our staff, all supplies and exhaust connections required must stand at less than 2m from the machine

Documentation

- User's manual
- Technical documentation of the components
- Lab exercises
- Wiring diagram
- Hydraulic diagram
- Certificate of conformity CE

Options

- Data acquisition with software
- Ref : BPH101

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