

Description

Digital Hydraulic Bench

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A mobile self contained bench with recirculating water supply. It provides water at different flow rates direct to experiments and includes digital flow display for hydraulic and fluid mechanics experiments. The body of the bench forms a reservoir or 'Sump Tank' with a submersible pump. Once filled, the bench needs no external water supply. This product supplies a controlled flow of water to a wide variety of laboratory experiment modules. The top of the bench provides a working surface.

Larger experiments usually stand next to the bench. It also catches discharged water from some experiments in the fluid mechanics range. A rim around the top contains any spilled or excess water.

A small recess or 'Trough' in the top works with a removeable Drain Valve to trap a small volume of water. A hand-operated control valve adjusts the water flow rate from the pump. An electrical box on the side of the bench includes the pump switch, circuit protection and a digital display of flow. An electronic flowmeter measures the outlet flow from the submersible pump. The signals from the flowmeter pass to the digital display to show the flow rate. The viewing angle of the display allows the user to see it clearly from a normal standing position. Four wheels allow the user to move the bench around the classroom. Two wheels have foot-operated locks to hold the bench in position. A sight gauge to the lower side of the bench allows the

user to check the water level inside the
tank.

Didac Scientific Pvt. Ltd,
Martinfield Business Centre, 108
Martinfield, Welwyn Garden City ,
United Kingdom

Direct Contact Details 
sales@didacscientific.co.uk
 www.didacscientific.co.uk/