

MEE 71 Order Code -22235575.4.71 **Hydraulics Bench and its accessories**



Description: The hydraulics bench is a robust, bench-mounted system constructed around a sturdy framework, designed for comprehensive hydraulic experiments and training. It is equipped with essential features for efficient water management and data logging.

Key Features:

- Construction: Sturdy framework with lockable castor wheels for mobility and stability.
- Water Storage Tank: 75-liter capacity tank mounted on the framework, supplying water to the electrically operated external pump.
- Pump: Centrifugal pump with a 0.365 kW, single-phase, 230V AC motor. Standard flow rate of approximately 30 L/m.
- **Controls:** On/off switch and safety cut-out control on the front of the frame.
- **Electrical Outputs:** Twin 240V waterproof electrical outputs.
- Data Logger:
 - Channels: 21-channel data logger with 48 screw terminals, push-on edge connections, 20 external channels, and 1 internal channel (mains voltage).
 - USB Connectivity: Includes a USB cable for PC connection; can be used via a USB splitter with up to 3 loggers.
 - Inputs:
 - Differential voltage inputs (±100 mV DC)
 - Eight single-ended DC voltage inputs (±8V)
 - Four logic or frequency inputs
 - **Power Supplies:** Onboard 12V DC, ±5V DC (optional ±15V DC power supplies).
 - **Software:** HDL software with curve-fitting calibration facility, allowing manual input and recording of transducer outputs. Supports linear and polynomial fits and stores results automatically. Includes characteristic curves for Type K and Type T thermocouples.

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



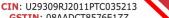
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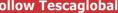
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Tesca Technologies Pvt. Ltd.



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Additional Features:

- Water System: Closed system for re-use of water.
- **Training Modules Included:**
 - 1. Free & Forced Vortices
 - 2. Bernoulli's Theorem Demonstration
 - 3. Orifice & Venturi Flow Measurement
 - 4. Pressure Loss in Bends & Fittings
 - 5. Center of Pressure Module
 - 6. Impact of a Jet Module
 - 7. Osborne Reynolds Demonstration
 - 8. Flow Meter Module
 - 9. Series and Parallel Pump Upgrade
 - 10.Pressure and Throttle Module

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