



Universal Test Bench

UTB - Non Elevated Series

Test Bench

- Size: 1500 x 1000 x 1460 mm (LBH)

Work Table

- Work table frame structure is made up of 40 mm powder coated mild steel square tube
- Work table top is made up of 25 mm thick chip board suitably laminated and post formed
- Size: 1500 x 1000 x 780 mm (LBH)

Bench-top Panel

- The bench top panel is constructed with 19 mm thick chip board suitably laminated
- The front plates are fixed with top and bottom profile run throughout the panel length
- The Front plates are made up of 3 mm high quality aluminium cut sheets pasted with 0.3 mm aluminium printed sticker with names, indication, cutouts, etc
- All the instruments of different sizes and weights are duly mounted in the panel with good mounting base plates, fixtures as required with suitable cut outs for easy frontal operations.
- For others like switch, socket, MCB, etc. are mounted or fixed by fixtures as required with making suitable cut outs for easy frontal operations
- The electrical wiring is done as per the standard practice by using quality wires, crimping legs and proper ferruling for easy identifications and troubleshooting in the future
- The pneumatic tubing is made by using PVC or Nylon hose or Copper or SS material depending upon the pressure rating. Normally, PVC or Nylon hoses are used according to the withstanding rated pressure
- Back of the panel are made up of 19mm chip board with inserted perforated mild steel ventilator arrangement with hinge and lock with key

- The back doors are easily openable for cleaning and fault finding or any other service requirements
- Size: 1500 x 450 x 680 mm (LBH)

Under Bench Cabinet

- Trolley Type
- Under bench cabinet is made up of chip board suitably laminated & fascia
- Storage space with lockable drawers - 2 nos., cupboard - 1 no. for keeping necessary stationary items/tools and tackle, etc
- Size: 420 x 460 x 685 mm (LBH)

Mains Power Supply and AC Socket Panel

- 230V VAC, 50Hz Single Phase main power supply
- Residual current circuit breaker (*for operators safety*)
 - Rated fault current: 30 mA
 - Rated Current: 25 A
 - No. of poles: 2
- Miniature Circuit Breaker
(*For protection of built-in instruments and Power Supplies*)
- Emergency off
- Power On Lamp
- 5 meters extension cable with plug to connect the work bench

Signal Calibrator - USC PM*

- Measurements and simulation of mA, mV, V, Ohms, RTD (Pt100), Thermocouples like J, K, T, E, N, R, S
- Power Supply: 230 VAC, 50 Hz prewired with on off switch with illumination

AC Socket Panel

- Miniature Circuit Breaker
- Universal AC Socket 230VAC/15A
 - On-Off switch with illumination

AC Socket Panel

- Miniature Circuit Breaker
- Universal AC Socket 110VAC/2A
- On-Off switch with illumination
- Step down Transformer (PRI) 230VAC/50HZ
- SEC 110VAC/2A

Pressure Calibrator: Hydraulic - APC PM700*

- Panel mounted Version
- Range: 0 to 700 Bar with mA and V measurement
- Transmitter power supply
- On-Off switch with illumination
- 230 VAC, 50 Hz power supply
- External comparator pump with proper hose and fittings used for generation



pressure (either oil or water can be used)

Blank Plate

- For future add ons

Variable DC Power Supply

- Variable Output Range: 0 to 30 VDC
- Variable Current Range: 0 to 2 A
- Power Supply: 230 VAC, 50 Hz

Fixed DC Power Supply

- 230VAC, 50Hz prewired with
- On-Off switch with illumination
- 24V DC / 2A Output port thro banana socket

Pressure Calibrator: Pneumatic

- APC PM 5000LP*

- Panel mounted Version
- Range: 0 to 5000 mm WC with mA and V measurement
- LP and HP ports
- Transmitter power supply
- On Off switch with illumination
- 230 VAC, 50 Hz power supply
- External Screw pump with proper hose and fittings used for generation vacuum as well as pressure
- Other hand regulated or controlled air supply through motorized vacuum and pressure can be used. Scope of motorized vacuum or pressure pump is not included for pricing

Pressure Calibrator: Pneumatic

- APC PM 20*

- Panel mounted Version
- Range: -1 Vacuum to 20 Bar with mA and V measurement
- Transmitter power supply
- On Off switch with illumination
- 230 VAC, 50 Hz power supply prewired
- External pneumatic hand pump with proper hose & fittings used for generation vacuum as well as pressure
- Other hand regulated or controlled air supply through motorized vacuum and pressure can also be used.

Air Set

- Pressure gauge 0 to 10 Bar or kg / cm²*
- Pressure Regulator
- Output port through quick connectors
- Input connected from the front side of the panel

Blank Plate

- For future add ons

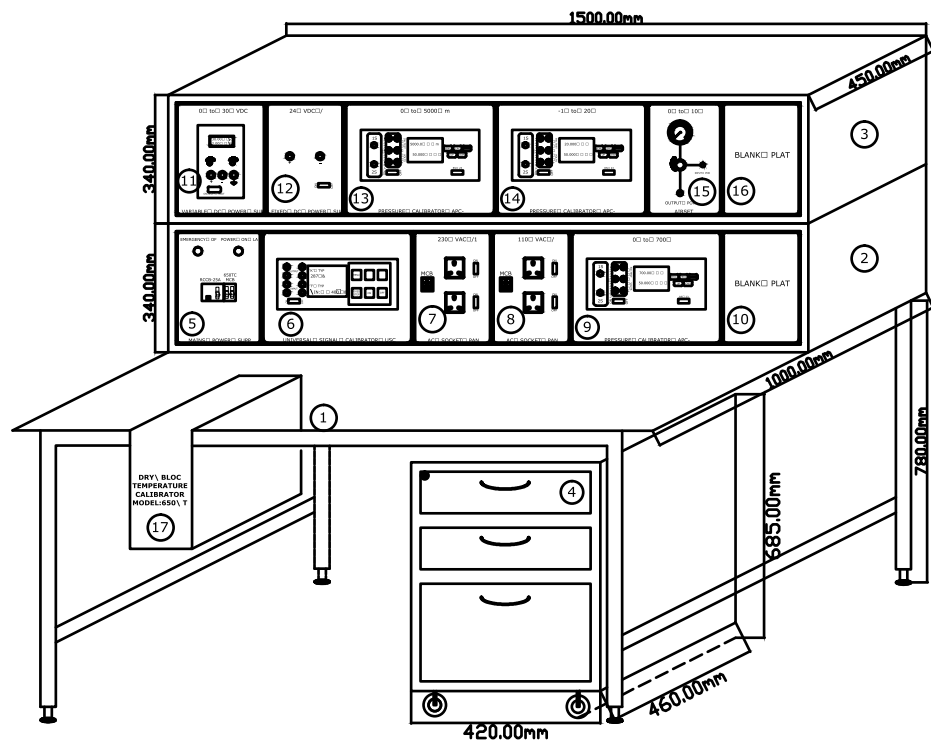
Dry Block Temperature Calibrator - 650 TC*

- 50°C to 650°C
- 0.05°C stability
- Mounted on the test bench surface as shown in the GA drawing

Accessories

- Necessary test leads to connect the input and output of the power supplies, multi meter and continuity tester
- Hose and connectors for air set

* Accredited (NABL) Calibration Certificate as per ISO/IEC 17025:2005 Standard



OPTIONAL

- * Rubber Mat / SS Sheet
- * Constant Temperature Liquid Bath (CTB Series)
- * High Temperature Dry Block Calibrator (1200 T)
- * Additional AC / DC Power supplies
- * Digital Manometer
- * Pressure Calibrator
- * Precision Digital Pressure Indicators and Gauges
- * Provision for Dead Weight Tester
- * Calibration Management Software System
- * Space for Computer Systems (CPU, Monitor, Keyboard, Mouse and Printer)
- * Mobile / Stationery Under bench cabinets
- * Shelves and Cabinets
- * Oil or water operated pressure comparison pump
- * Compressor
- * Motorised Vacuum Pump

Manufacturer of
**TEST BENCHES
CALIBRATION INSTRUMENTS**

**ISO 9001:2008
Certified Company**

www.rndinstruments.com

Contact

5, Natesan Nagar, Alapakkam,
Chennai 600116. Tamilnadu, INDIA.
Tel.: +91-44-4283 9039 / 4284 1119
Mobile Nos.: +91-87544 78464 / 87544 68463
email: sales@rndinstruments.com
service@rndinstruments.com

Note: For special custom built Test Benches, please contact us.

ACCREDITED CALIBRATION LABORATORY

As per ISO / IEC 17025

**THERMAL
MECHANICAL
ELECTROTECHNICAL**

www.calibrationlab.in