



\*This image is for marketing purposes; the actual instrument may vary slightly\*



## 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 aluminum cut sheets pasted with 0.3 mm aluminum printed sticker with names, indication, cutouts, etc..
- All the instruments of different sizes & 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 19 mm chip board with inserted perforated mild steel ventilator arrangement with hinge and lock with key

## Under Bench Cabinet

- Trolley Type
- Under bench cabinet is made up of chip board suitably laminated and 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)

# Universal Test Bench

## UTB – Non-Elevated Series

### Test Bench

Size: 2000 x 1000 x 1120 mm (LBH)

### Power supply of test bench

- 5 meters extension cable with plug to connect the work bench

### Work Table:

- Work table frame structure is made up of 50 x 25 mm powder coated rectangular mild steel tube.
- Work table top is made up of 25 mm thick chip board suitably laminated & post formed.

### Mains Power Supply

- 230 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 dry block temperature calibrator)
- Emergency off
- Power On Lamp

### AC Socket Panel

- Universal AC Socket 230 VAC / 15 A
- On-off switch with illumination
- Step down Transformer (PRI) 230 VAC / 50 Hz SEC 110 VAC / 2 A
- Universal AC Socket 110 VAC / 2 A
- On-off switch with illumination

### Multifunction Calibrator-MCAL-20

- Ideal for calibration of thermocouples, RTDs, thermometers, transmitters, indicators, controllers, receivers, mA, V, mV, ohms, frequency measuring instruments etc..
- Power Supply: 230 VAC, 50 Hz prewired with on off switch with illumination

### Variable DC Power Supply

- Variable Output Range: 0 to 30 VDC
- Variable Current Range: 0 to 5 A
- Power Supply: 230 VAC, 50 Hz

### Fixed DC Power Supply

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



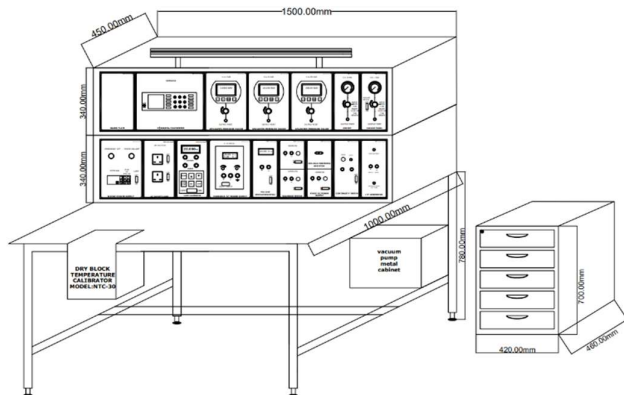
## R&D Instrument Services

### Pressure Calibrator: Pneumatic APC PM - 5000LP\*

- Panel mounted Version
- Range: 0 to 5000 mm WC with m A and V measurement
- LP and HP ports
- Transmitter power supply
- On Off switch with illumination
- 230 VAC,50Hz 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

### Pressure Calibrator: Pneumatic - APC PM20\*

- 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 and 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



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**Manufacturer of Test benches  
Calibration Instruments**

### 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)

### Air Set

- Pressure gauge: 0 to 10 Bar or kg / cm<sup>2</sup> \*
- Pressure Regulator
- Output port through quick connectors
- Input connected from the front side of the panel

### Dry Block Temperature Calibrator - 650 ATC\*

- Range:50°C to 650°C
- 0.05°C stability
- Accuracy: ±0.4°C
- radial Uniformity: ±0.3°C with similar probes
- Mounted on the test bench surface as shown in the GA drawing

### Blank plate

- For feature add-ons

### 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 Standard

### Optional:

- Rubber mat /ss sheet
- Constant temperature liquid bath(CTB series)
- High temperature dry block calibrator(1200TS)
- Additional AC/DC power supplies
- Digital manometer
- Pressure calibrator
- Precision digital indicators and gauges
- Provision for dead weight tester
- Calibration management software system
- Space for computer systems (CPU, monitor, keyboard, mouse and printer)
- Mobile/stationary under bench cabinets
- Shelves and cabinets
- Oil or water operated pressure comparison pump
- Compressor
- Motorised vacuum pump