

XPO - WORK BENCH



Electrical Work Bench

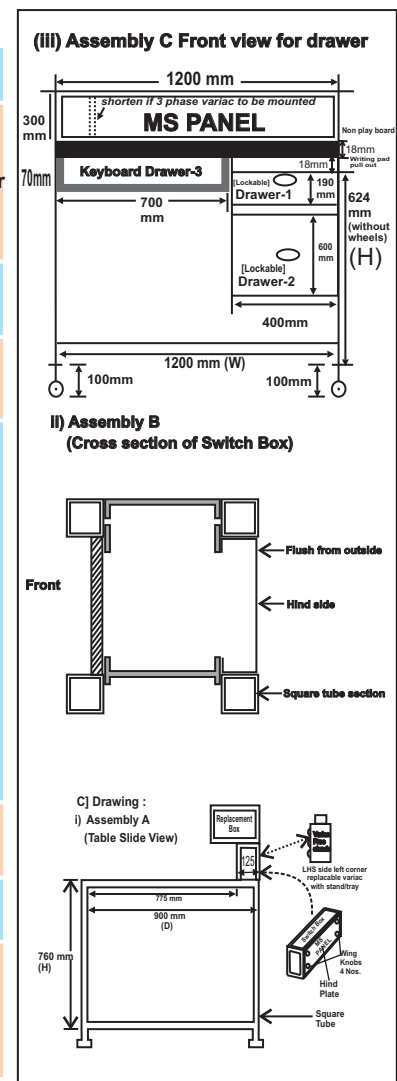


Electronics Work Bench



Mechanical Specification of Work Bench :

Specifications	Descriptions
Assembly	Table is made from 3 disassemblable sub assemblies a) Bottom stand Pi type structure with table top, drawers etc. b) Hind rectangular box, also called as switch box, to hold 1ph. & 3ph. power sources etc.c) Optional top side rectangular box mounted on top of Hind or switch box to house various instruments like CRO, FG,& power supplies etc.
Frame	16 slide MS square tube (Heavy duty) Colour : Brown / Off white powder coating, optionally sturdy aluminium profile frame.
Table Top Material/Colour	The nova pan or Rubber wood with white / Silver gray with smooth finish Veneer finish table top (18 mm thick optionally 40mm)
Drawer	Drawers to have two position options: Horizontal (optional) or vertical (Default). • Horizontal drawers have restriction of height else they will obstruct knees of tall person while sitting in front of table. • Vertical drawer has limitation of no. of students which can be accommodated in front of table i.e. only one but advantage here is bottom drawer can be heighted. • Out of 3 drawers, one is open type & would double up as PC keyboard carrier with mouse pad on its side. Other two drawers are closed type, lockable. Of these two, bottom drawer has double height to accommodate tall (pneumatic / hydraulic) components. • Dimensions : Upper Drawer : 400 mm (L) x 480 mm (W) x 190 mm (H) Tall Drawer : 400 mm (L) x 480 mm (W) x 600 mm (H) Open Drawer : 700 mm (L) x 300 mm (W) x 045 mm (H) Writing Pad : 335 mm (L) x 300 mm (W) x 018 mm (H) • Pull Out Put Writing pad provided above upper drawer on right side of table
Bottom Legs	Four rubber bottom legs are provided support the table optionally Castor Wheel with locking mechanism is provided so that table can be easily moved
Dimentions	Overall : 1200mm (L) x 610mm (W) x 760mm (H) Nt. Wt. 40 Kg, Gr. Wt. 50Kg
Electrical Fitting	Hind (Switch) box with screwable hind side panel to facilitate wiring & controlling 6 separate sets of 5 Amp switch & 5 pin 3 phase stock proof protective Socket with 4 Pole MCB with Neon indicator are provided on the facing panel of switch box.






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Specifications subject to change without notice

Instrument Specification of Work Bench:

S.N.		Name & Specs.	Electronics Bench	Electrical Bench
1	AC/DC Power Supplies		<p>Regulated DC Power Supply : XPO-RPS Consisting of 2 Meters select to read voltage/current of each output for dual Power Supply (0-30V) Fixed Output Ranges : 5V,12V @ 5Amps Ripple & Noise : <2mVrms Output Current : Max rated Current with over load RED LED indication. Regulation : Line : <0.01% ±2mV for 10% change in line, Load : <0.01% ±2mV for load change from zero to full load Ripple & Noise : <1mVrms max indication. Constant Current Mode Output Range : 0 to RATED CURRENT continuously adjustable Regulation : Line : <0.1%+ 250uA for + 10% change in line, Load : <0.1%+ 250uA for change in output voltage from 0 to max.</p>	<p>1) Regulated DC Power Supply : XPO-RPS Consisting of 2 Meters select to read voltage/current of each output for dual Power Supply (0-30V) Fixed Output Ranges : 5V,12V @ 5Amps Ripple & Noise : <2mVrms Output Current : Max rated Current with over load RED LED indication. Regulation : Line : <0.01% ±2mV for 10% change in line, Load : <0.01% ±2mV for load change from zero to full load Ripple & Noise : <1mVrms max indication.</p> <p>2] 3 Phase Auto Transformer : 0 - 440B / 5A Voltage : 0 - 440V, Current : 5A. Indicator: 3 ½ digit digital voltmeter with selector switch. Terminations:BTI 15 Terminals with resp. phase colours & neutral</p> <p>3] Unregulated variable DC supply 0 - 300 VD/5A Voltage : 0 - 300VDC variable current 5A</p>
2	Multifunction Meters		<p>31/2 Digital Multimeter (DMM) Model Name : HQ DMM TECHNICAL SPECIFICATIONS :</p> <ul style="list-style-type: none"> • General • Displaying : LCD displaying • Max. Indication : 1999 (3 ½), auto polarity indication • Measuring method : Dual slope A/D transfer • Sampling rate : Approx. 3 times / sec • Over range indication : MSD display "1" or "-1" • Operation : "0-40" °C, relative humidity <80% • Size : 189x97x35 (LxWxH) <p>• Technical Characteristics : Following Ranges: • DC volt (DCV) - 200mV, 2V, 20V, 200V, 1000V with Resolution of 100uV, 1mV, 10mV, 100mV, 1V with Accuracy +1%. • AC volt (ACV) - 2V, 20V, 200V, 750V with Resolution of 1mV, 10mV, 100mV, 1V with Accuracy +1.2%. DC current (DCA) - 20mA, 200mA, 200mA, 20a with Resolution of 10uA, 100uA, 10mA with Accuracy +2.0%. • AC current (ACA) - 20mA, 200mA, 20A with Resolution of 10uA, 100uA, 10mA with Accuracy +3.0%. • Resistance (W) - 200W, 2KW, 20KW, 200KW, 2MW, 200MW with Resolution of 0.1W, 1W, 10W, 100W, 1KW, 100KW with Accuracy + 5.0% • Capacitance (C) - 20nF, 200nF, 2uF, 20uF, with resolution of 10pF, 1nF, 10nF with Accuracy +2.5%. • Frequency (f) - 2kHz, 200kHz with Resolution of 1Hz, 100Hz, with Accuracy +3.0%. • Transistor Data test - hfe NPN or PNP with Resolution of Basic current is appx. 10uA, Vce is about 3V with Accuracy 0-1000</p>	<p>A] Multifunction 1 Phase Meter Aux Supply : 230V AC 50MHz Voltage : 0 to 300V Current : 1A/5A range Display : LCD Display CTR : 10/1A Measurement : V, A, Hz, PF, KW, KVA, KVar Energy Termination : SBSS Terminals</p> <p>B] Multifunction 3 Phase Meter Connection : 3Phase 3/4 wire Volts Input : 400V/230V AC Aux Supply : 230V AC, 45-65Hz, 5W Display : LCD Display CT Input : 5A, 0.1 VA/Ph. Measurement: V, I, Hz, Pf, KVA, KW, KW/h Computer Input : Modbus RTU RS485 Termination : SBSS Terminal</p>
3	Measuring Instruments		<p>A] 25 MHz Colour LCD Digital Storage Oscilloscope Sampling : ACQU Mode : Sample, Average Sampling Rate : 100 MS/s. Input Coupling : DC, AC, Input , Impedance : 1M ± 2%, connect -ed with 20pF± 3pF in parallel, Max. Input Voltage Level : 300V, Peak Value. Sampling Rate Range : 10S/s ~ 100MS/s Record Length : 6000 sampling points per channel Scanning Speed Range (S/div) : 5ns/div ~ 5ns/div, according to the stepping mode of 1 - 2.5 - 5. Measuring Accuracy of Time . Display Type : 7.8" Colored LCD (Liquid Crystal Display) Display Colors : 256 Colors. Power Mains Voltage : 100 ~ 240 VAC RMS, 50Hz. Accessories : 1) Mains Cord: 01 Nos 2) x1, x10 CRO Probe: 02 Nos 3) Aligner : 01 Nos 4) USB Cable : 01 Nos 5) Manual: 01 Nos</p> <p>BJ 3 MHz Function Generator with 50MHz Frequency Counter • Sine, Triangle, Square, Variable duty cycle. • Pulse and Ramp. • Wide frequency ranges. IFrequency/Universal counter & voltmeter. • With internal & external frequency counter upto 50MHz, • AM/FM Frequency Range : 0.03 MHz to 3 MHz, Waveform : Sine, Square, Triangle, Accuracy ±1% plus 1 digit, Maximum Output level : -20Vpp & 10Vpp into 50W, Sine Wave Distortion : <1% typical <100KHz; 3% >100KHz</p>	<p>—</p>