

## LIST OF INSTRUMENTS

We, at D.B. Solutions are pioneer in providing customize solutions in the field TESTING & MEASURING for various diversified applications such as Embedded Electronics, High Voltage applications Research Org, Photonics, Laser Applications, Automotive, LED Testing, Power Electronics Educational Institutes etc. We have tied up with many OEM in Test & Measurement industry.

DIGITAL ELECTRONICS TESTING INSTRUMENTS	ELECTRICAL TESTING INSTRUMENTS
OSCILLOSCOPE LOGIC ANALYZER PROTOCOL ANALYZER BIT ERROR RATE TESTER HV DC POWER SUPPLY FREQUENCY COUNTER OSCILLOSCOPE PROBES RF POWER METER 8 1/2 DMM, 7 1/2 DMM DC ELECTRONIC LOADS SOLDERING STATION REWORK STATION VACUUM STATION IMPEDANCE ANALYSER & LCR METER USB BASED & PXIE BASED DIGITIZERS & CONTROLLERS FUNCTION/ARBITRARY WAVEFORM GENERATORS (AWG) ELECTROMETERS, SOURCE MEASURE UNITS PICOAMMETERS DESKTOP PICK AND PLACE MACHINE & REFLOW OWEN PROBE STATION WITH MICROPOSITIONER, TIP HOLDERS, HOT CHUCKS, FOUR POINT PROBES & ACCESSORIES	POWER ANALYZER THERMAL IMAGER DIGITAL MULTIMETERS CLAMPMETER ADAPTERS FOR MULTIMETERS ELECTRICAL INSTALLATION TESTERS ELECTROMAGNETIC FIELD INSULATION TESTERS SOLAR PANEL TESTERS EARTH AND RESISTIVITY TELECOM/NETWORK TESTERS OTHER TESTERS LOGGERS MICRO-OHMMETER PROCESSING AND ANALYSIS VIBRATION TESTING SOUND TESTING DATA ACQUISITION THERMAL IMAGER BATTERY TESTERS IMPULSE WINDING TESTER
RF & MICROWAVE TESTING INSTRUMENTS	OPTICAL ELECTRONICS INSTRUMENTS
VECTOR NETWORK ANALYZER (VNA) VECTOR SIGNAL ANALYZERS (VSA) RF SIGNAL GENERATORS (SIGNAL SOURCES) SPECTRUM ANALYZER PHASE NOISE, PHYSICAL LAYER TEST SYSTEMS RF POWER METERS & POWER SENSORS EMI & EMC MEASUREMENTS RF PROBE STATION CLOCK GENERATION & DISTRIBUTION BROADBAND RF & MICROWAVE AMPLIFIERS UP TO 70GHZ MULTIPLEXERS (MUX) & DEMULTIPLEXERS (DEMUX) DIGITAL-TO-ANALOG CONVERTERS (DAC) PAM GENERATION AND SAMPLING (PAM-MUX, PAM-SAMPLER) SIGNAL SHAPING (FILTERS, EQUALIZERS AND ATTENUATORS) SWITCHES FREQUENCY DIVIDERS & MULTIPLIERS DIPLEXERS, BIAS TEES, DC BLOCKS, DC FEEDERS & POWER DIVIDERS UPTO 110GHZ RF & MICROWAVE CONNECTORS AND CABLES UP TO 110GHZ	LASERS LASER DIODE & TEC DRIVERS PICOSECOND OPTICAL PULSE GENERATOR OPTICAL FREQUENCY COMB SOURCE - FIXED WAVELENGTH & TUNABLE WAVELENGTH METER LASER DIAGNOSTIC TOOLS MONOCHROMATOR DETECTION EQUIPMENT'S SOLAR SIMULATORS UV EXPOSURE SYSTEMS ENVIRONMENTAL CHAMBERS OPTICAL TRANSMITTER & RECEIVER OPTICAL TIME-DOMAIN REFLECTOMETER FIBER INSPECTION TOOL KIT OPTICAL SOURCES AND AMPLIFIERS OPTICAL SIGNAL CONDITIONING OPTICAL SIGNAL SWITCHING & ROUTING OPTICAL POWER & SPECTRAL MEASUREMENT PASSIVE CONNECTOR TEST (PCT) SYSTEM FOR IL/RL OPTICAL ATTENUATORS OPTICAL SPECTRUM ANALYSERS OPTICAL FIBER SENSORS, OPTICAL INTERROGATORS OPTICAL POWER METER

## MESSUNG WORKPLACE TECHNOLOGY

Workplace Technology is one of the 3 businesses of the diversified Messung Group.



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## MESSUNG WORKPLACE TABLES

### VOLUME-ESD WOOD

- The product shall comply with following directives
  - ANSI/ESD S20.20-2014 and IEC 61340- ESD Standards**
  - DIN EN 312- Standard for High Pressure Laminated Worktop**
- The table top or worktop is raw chipboard allowing electro-static discharge with a thin chipboard top as per IEC 61340-5 (volume conductive). Decorative side with 0.8 mm brilliant HPL.
- 28 mm thick high pressure laminated (HPL) chipboard, front corners with an ergonomic 50 mm rounding having dimension of 1600mmx1000mm(LxD).
- Core Material**  
 Premium Board P2 ESA  
 Electrostatically dissipative particleboard, Type P2 to DIN EN 312
- Chemical Resistance:** against organic solvent, slight acids and lye, benzene and oil, as per DIN 53799.
- Temperature Resistance:** Short time 180°C
- Earth Connection Resistance:**  $1 \times 10^4 - 1 \times 10^9$  Ohm
- Volume Resistance:**  $1 \times 10^4 - 1 \times 10^9$  Ohm Measured dry, measurement voltage 100 V DC, cylindrical electrode, 20 – 30°C fund 20 – 50% relative humidity (conditioned for 96 hours)
- Formaldehyde Emission Class:** E1  
**ESA = Static-dissipative**



HPL ESA

Premium Board ESA P2

HPL ESA

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## APPLICATIONS

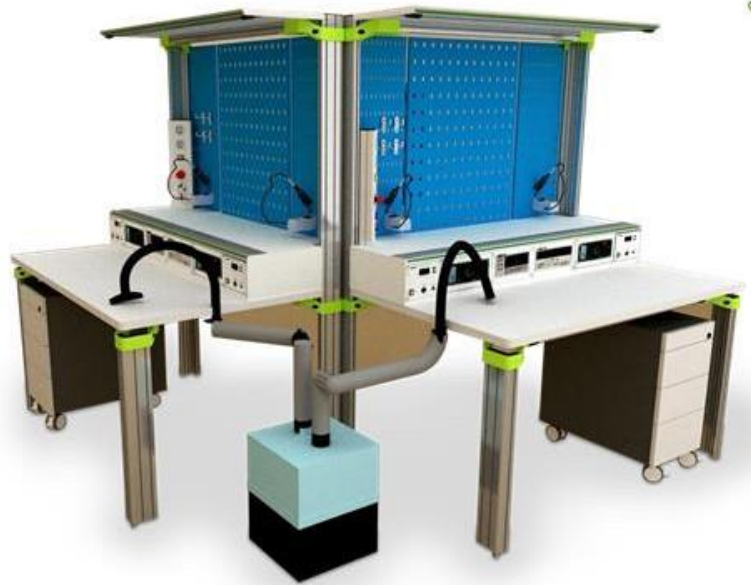
### Wire Harness & Assembly Workstation for Missile Manufacturing

**Setup consists of:**

1. Customised Volume-ESD workstation with integrated instruments
2. High accuracy digital multimeter
3. Programmable DC power supply
4. Soldering station & fume absorber
5. Insulation tester
6. Thermal wire stripper
7. Safety Ohm meter

**Benefits:**

- Earlier customer used to have two different setups for Wire Harnessing & Assembly. This was too time-consuming and inconvenient to move big missiles from one setup to another
- This combined setup brings ease of work & efficiency grows. Also, productivity has increased
- This kind of setup requires very accurate ESD properties. Our Volume-ESD property is the best solution available



## MESSUNG WORKPLACE TABLES

## APPLICATIONS

### Automated Test Equipment Setup for R&D

**Setup consists of:**

1. Customised workstations with instrument integration
2. Customised instrument trolley setup
3. Programmable DC power supplies
4. High end digital recorders
5. High end signal analysers
6. Digital storage oscilloscope
7. Function generator
8. High end digital multimeter

**Benefits:**

- Properly integrated test setup makes the work environment clean & neat. Also, results in optimum utilisation of workspace
- Customer is able to enjoy error free operations



## APPLICATIONS

### Wire Bonding Test Setup

#### Setup consists of:

- Customised Volume-ESD workstation
- Wire bonder systems
- 0 to 10 Bar regulated pneumatic systems

#### Benefits:

- Customer was facing an issue with their earlier setup due to improper ESD & low weight carrying capacity. The earlier tables were sagging due to the heavy weight of instruments
- Wire bonder systems are very heavy in weight & need sturdy workstations
- These are being used in very high-end research organisations like DRDO, ISRO. Here ESD is a major concern as the electronics components are very sensitive & costly



## APPLICATIONS

### Switch Gear Testing Setup

#### Setup consists of:

1. Customised Volume-ESD workstation
2. Programmable Logic Controller
3. Variable frequency drives
4. Network switch systems
5. Both AC single & three phase power distribution

#### Benefits:

- Properly organised, neat & clean work surface enabling optimum utilisation of space
- Error free testing with increased efficiency & productivity



## APPLICATIONS

### RF Test Lab

**Setup consists of:**

- Customised Volume-ESD workstation & 19" specific ESD racks
- High end RF receivers & transmitters
- High end vector network analysers & digital recorders
- Digital storage oscilloscopes
- Programmable DC power supplies
- Digital multimeter & function generator

**Benefits:**

- Customer was facing issues with earlier setup due to improper ESD & low weight carrying capacity. The earlier tables were slugging due to the heavy weight of instruments
- These kinds of systems have a number of heavy instruments & need sturdy workstations. Also instrument integration provides proper utilisation of space
- These are being used in very high-end research organisations like DRDO, ISRO. Here ESD is major concern as the electronics components are very sensitive & costly



## APPLICATIONS

### Testing & Tuning System for Naval Weapons

**Setup consists of:**

- Customised Volume-ESD workstation with integrated test & measuring instruments
- Variable AC & DC power sources
- Frequency inverter
- Regulated pneumatic system

**Benefits:**

- Customer was facing issues with earlier setup due to improper ESD & low weight carrying capacity. The earlier tables were slugging due to high weight of instruments
- These kinds of systems have a number of heavy instruments & need sturdy workstations. Also instrument integration provides proper utilisation of space
- These are being used in organisations like NAVAL Dockyards. Here ESD is a major concern as the electronics components are very sensitive & costly



# MESSUNG MOBILE TEST SYSTEMS



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# MESSUNG TROLLEYS



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## Messung ESD Chairs: The ultimate solution to all your seating problems

Messung presents a range of world-class ESD industrial work chairs, made in India.

Designed and manufactured with Volume-ESD, as per stringent global standards, these chairs set the standard for lasting ESD protection, rugged durability, and unmatched ergonomics that promote good posture, comfort and wellbeing.



AFM-CH-FABRIC

AFM-CH-LEATHER

AFM-CH-PU



ESD range: 10<sup>6</sup>-10<sup>9</sup> ohms  
IEC 61340-5-1 & ANSI ESD S20.20.2014

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