TESTWIN

APPARATUS MARKETING SERVICE PRIVATE LIMITED

Engineering Trust. Inspiring *Strong Partnerships.*

TESTWIN

Apparatus Marketing Service Private Limited

"Where Precision Meets Purpose, and Trust Builds Legacy."

At Testwin, we are not just providers of testing equipment — we are enablers of accuracy, reliability, and industrial confidence.

Founded in 2020 in Kolkata, Testwin Apparatus Marketing Service Private Limited is a women-led engineering enterprise dedicated to delivering high-performance material testing machines, metallurgical instruments, and laboratory solutions.

With a strong foundation built on:

- Precision Engineering
- Customer-Centric Solutions
- Trusted Industry Partnerships

We serve industries, laboratories, research institutions, and educational organizations across India.

Vision & Mission

Our Vision: *To be the leading provider of innovative testing solutions in India.*

Our Mission: *Empowering industries with accurate and reliable testing technologies.*

Our Core Strengths:

- ✓ Precision-driven technology
- ✓ Strong after-sales commitment
- ✓ Strategic industry partnerships
- ✓ Reliable and timely delivery
- ✓ Customized engineering solutions

"We don't just measure strength — we build it."

Testwin

OUR INTEGRATED MACHINE PORTFOLIO

"Engineered. Delivered. Supported."

SECTION 1 PHYSICAL TESTING MACHINES

Universal Testing Machines

1. Analogue- Universal Testing Machines.
2. Computerised- Universal Testing Machines.
3. Analogue Cum Computerised- Universal Testing Machines.
4. Servo Computerised- Universal Testing Machines.
5. Front open crosshead Servo Computerised-
   Universal Testing Machines.
   (With load & Strain rate controls,hydraulic grips)
6. *Computer Controlled, Ball-Screw Driven Universal Testing Machines*

Spring Testing Machines

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OUR INTEGRATED MACHINE PORTFOLIO

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OUR INTEGRATED MACHINE PORTFOLIO

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9. CBR Test Apparatus
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Testwin proudly stands as a Marketing Partner of **Fine Spavy Associates (FSA)** — a beacon of **innovation** in **physical testing machines across India.**

PHYSICAL TESTING MACHINES

Fine Spavy Associates & Engineers | ***Testwin***

Machine representations are indicative. For queries, contact (+91) 7603057584.

UNIVERSAL TESTING MACHINES

Analogue -Universal Testing Machines

Model : TUN

- Conducts a wide range of tests including Tension, Compression, Transverse, etc.
- Equipped with a continuous roll autographic “Load vs Elongation” recorder.
- Suitable for testing a broad spectrum of metallic materials.
- Optional accessories include: Mechanical Extensometer, Pace (load) rate control, Load Stabilizer, and attachments for Brinell test, tensile (shouldered & threaded), single & double shear, bolts–nuts & washers, rope, flat belt, bend-rebend, 180° bend, pull-out, and chain testing.
- Available in various models with capacities ranging from 100 kN to 2000 kN.
- Ensures loading accuracy within ±1%, conforming to IS:1828 / BS:1610 standards.

Computerised - Universal Testing Machines

Model : TUE-C

- Automatic data capture, storage, and graphical display.
- Recording, storage, and retrieval of test results and related details.
- Real-time online display of load and extension.
- Fully automatic, on-screen calculations based on acquired data.
- Digital printer output for test data, results, and graphical reports.
- Automatic detection of overload, over-travel, and specimen break; machine shuts down upon detection.
- Load resolution of 0.01% of machine capacity across the entire range.
- Accurate, user-friendly software with all additional facilities as per Model: TUN.

Analogue Cum Computerised -Universal Testing Machines

Model : TUE-CN

- The DC valve is provided which directs oil flow
- either to analogue or computerized control panel.
- One can use one system at a time.
- Both Analogue & Computerized control panels are provided.
- Various Models - Capacities from 100kN to 2000kN are available.
- Loading accuracy well within ± 1%, conform to IS:1828 / BS:1610.

Machine representations are indicative. For queries, contact (+91) 7603057584.

Servo Computerized - Universal Testing Machines

(With Load & Strain Rate Controls)

Model : TUE-C-Servo

- Electronically controlled imported pressure & flow valves with dedicated controller operate in closed-loop PID for precise load and strain rate control.
- Variable load and strain rates selectable via computer.
- DAS panel features a 32-bit microcontroller with multiple control modes.
- USB connectivity enables interface with modern PCs/laptops.
- Ensures ±1% load accuracy from 2% to 100% capacity.
- User-friendly, accurate software provided.
- Available capacities: 100 kN to 2000 kN.
- Conforms to IS:1828 and BS:1610 standards.

Servo Computerized - Universal Testing Machines

(With Load & Strain Rate Controls, With Front Open Crossheads And Hydraulic Grips)

Model : TUF-C-Servo

- Servo-controlled machine with precise load rate and strain rate control.
- Electronically operated using sophisticated imported pressure and flow control valves with dedicated controller in closed-loop PID.
- Designed with front-end opening crosshead and hydraulic gripping system.
- Ensures ±0.5% accuracy from 2% to 100% of capacity.
- Other specifications as per Model: TUE-C-(SERVO).
- Available in capacities from 400 kN to 2000 kN.
- Conforms to IS:1828 and BS:1610 standards.

Computerized & Analogue Versions, 2000 Kn Capacity, Universal Testing Machines

Models : Tue-C-2000 Kn & Tun-2000 Kn

- This is a big size machine i.e. 2000 kN (200 Tons) capacity, with neck breaking height.
- Machine performance is excellent and even bars of size upto dia 50 or 60 mm are comfortably tested without jerks and shakes.
- Middle crosshead speed is 300 mm/min.
- Additional middle crosshead control push buttons on machine columns to facilitate ease of machine operation.
- Increased length and rigidity of jaws and inserts.
- Accuracy and other features as mentioned under Models : TUN & TUE-C.
- Machines strictly conform to IS:1828 & BS:1610 standards

Machine representations are indicative. For queries, contact (+91) 7603057584.

Computer Controlled, Ball-Screw Driven Universal Testing Machines

Model :M Series

- Double-column, twin ball-screw driven universal testing machine.
- Performs tension, compression, transverse, peel, bend, and shear tests.
- Suitable for rubber, plastics, and ferrous/non-ferrous metals in various forms.
- AC servo motor with precise, infinitely variable computerized crosshead control.
- High-accuracy load cell with overload/travel safety.
- Windows-based software with real-time data and graphs.
- Stores 50,000 tests; auto calculations (UTS, YS, proof stress).
- Optional extensometer; capacities 1–100 kN; ±1% accuracy; conforms to IS:1828 / BS:1610.

SPRING TESTING MACHINES

Digital,Hand Operated,Coil Spring Testing Machines

Model :STM

- Table-mounted, digital, hand-operated testing machine
- Load measured by load cell; displacement by rotary encoder
- LCD display for load and displacement on DAS panel
- Load resolution: 10,000 counts (optional 20,000 counts); displacement resolution: 0.01 mm
- Vertical daylight: 300 mm
- Includes tension shackles and compression plates for spring testing
- Supports multiple load cells (additional at extra cost) for wider range
- Capacities available from 100 N to 2000 N
- Loading accuracy within ±1%, conforming to IS:1828 / BS:1610

Leaf Spring Testing Machines

Model : FST, FST-E, FST-EC

- Tests a wide range of leaf/laminated springs for load rate as per IS:1135-1984
- Measuring ranges with auto load selection facility
- Large table with motorized rapid test height adjustment
- Standard autographic recorder provided
- Overload and over-travel safety features
- Supports compression, shear, Brinell, and bending tests with accessories
- Optional load stabilizer maintains constant load at specific deflection
- Suitable for helical compression and disc springs
- Capacities from 100 kN to 500 kN
- ±1% accuracy as per IS:1828 / BS:1610;
- Aavailable in analogue, digital, computerized versions

Machine representations are indicative. For queries, contact (+91) 7603057584.

BRINELL HARDNESS TESTING MACHINES

Automatic Optical Brinell Hardness Testing Machines

(Model : OPFA-3000, OPFA-3000-PC)

- Robust C-type load frame for production testing of cast/forged components (leaf springs, camshafts) for Brinell hardness
- Ideal for foundries and engineering production lines
- Fast, mostly automatic operation reduces operator fatigue; ~12 sec cycle time (excluding loading/unloading)
- Load stages: 750 kgf and 3000 kgf
- Optical system with 14× magnification; measurement via microscope (0.01 mm least count)
- Push-button start; loading/unloading manual, rest automatic
- Impression visible for diameter measurement after cycle
- Computerized model with CCD, software, auto display, and printout
- Accuracy as per IS:2281

Brinell Hardness Testing Machines / Testers

Model : AKB-3000

• Designed for Brinell hardness testing of ferrous and non-ferrous materials in cast, forged, or rolled forms, including various shapes.
• Ideal for production testing; floating fulcrum lever ensures high accuracy and reliability.
• Dead-weight load system with mechanical lever and hydraulic lifting for smooth operation.
• Test loads from 500 to 3000 kgf in 250 kgf steps.
• Size: 380 × 200 mm with 25× microscope.
• Optional fixtures and computerized system available.
• Models: manual, optical, computerized; conforms to IS:2281-2005 & BS:240.

Optical Brinell Hardness Testing Machines

Model :OPAB-3000

• Designed for Brinell hardness testing on ferrous and non-ferrous materials in various forms and shapes.
• Modified AKB-3000 with inbuilt 14X optical system.
• Automatic indenter index tilts post-impression; direct screen measurement with 0.01 mm least count.
• Ensures fast, accurate results with reduced operator fatigue.
• Ideal for industrial applications; floating fulcrum lever ensures reliability.
• Dead-weight load with hydraulic lifting/damping.
• Loads: 500–3000 kgf; size: 380 × 200 mm.
• Optional computerized system; conforms to IS:2281-2005 & BS:240.

Machine representations are indicative. For queries, contact (+91) 7603057584.

Computerised Brinell Hardness Testing Machines

(With Inbuilt Industrial Pc & Touch Screen Facility)

Model : OPAB-3000-PC

- Computerized Brinell Hardness Tester (Model: OPAB-3000-IPC) for testing ferrous (steel) and non-ferrous (brass, bronze, aluminium) materials; suitable for cast, forged, or rolled forms in flat, round, or irregular shapes.
- Dead-weight load system with mechanical lever; hydraulic system for initial lifting and smooth load application.
- Separate bottom-mounted hydraulic power pack enhances stability.
- Floating fulcrum lever design ensures high accuracy and reliability.
- Automatic indenter index tilts after impression; magnified image on IPC for area measurement and hardness display.
- Saves cycle time, improves accuracy, reduces operator fatigue.
- Ideal for auto shops, foundries, forging and heat treatment units; conforms to IS: 2281-2005 & BS: 240.

Deep Throat Brinell Hardness Testing Machines with Roller Conveyors (*With Movable Table*)

(Model: TEXMACO Type)

- · Suitable for batch testing of heavy jobs
- · C-type load frame with 400 mm throat & 750 mm vertical clearance
- · Ideal for wheels, discs, plates, cylinder blocks, etc.
- · Load stages: 750 kgf & 3000 kgf (optional: 500 / 1000 kgf)
- · 25X Brinell microscope, 0.01 mm least count
- · Movable table (1100×600 mm) with XX 1000 mm & YY 200 mm travel; 700 kg capacity
- · Ram stroke 300 mm; speeds: up 1200 mm/min, down 600 mm/min
- · Optional: test blocks, special fixtures, BIMS system
- · Conforms to IS:2281-2005 & BS:240
- · Semi-automatic inline production tester

Deep Throat Brinell Hardness Tester With Fixed Table

(Model: WOM Type)

- Semi-automatic inline Brinell hardness tester for batch testing of heavy jobs
- C-type heavy-duty frame with 400 mm throat & 900/600 mm test height
- Suitable for heavy job hardness testing
- Load stages: 750 kgf & 3000 kgf (optional: 500 / 1000 kgf)
- 25X Brinell microscope, 0.01 mm least count
- Large fixed table: 1200 × 600 mm; load capacity 1200–1500 kg
- Ram stroke 300 mm; speeds: up 930 mm/min, down 440 mm/min
- Optional: test blocks, special fixtures, BIMS system
- Conforms to IS:2281-2005 & BS:240

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VICKERS MACHINES

Vickers Cum Brinell Hardness Testing Machines / Testers

Model : BV

- Suitable for Vickers and Brinell hardness testing of metals from soft to very hard.
- Push-button control for easy selection of test loads.
- Wide load range from 1 kg to 250 kg.
- Optical magnifications: 35X, 70X, and 140X for precise observation.
- Equipped with 136° diamond pyramid indenter for accurate impressions.
- Capacity: 250 mm height and 150 mm throat depth.
- ±1% load accuracy; conforms to IS:1754.
- Computerized model with CCD, software, automatic display, and printout of results.

Computerised Vickers Hardness Testers

Model : FV-50 PC

- Fully computerized system for measurement and display of Vickers hardness indentation on PC (PC supplied by us).
- Vickers hardness measured using advanced image processing techniques based on conditional edge detection, ensuring highly accurate, repeatable, and faster results than conventional methods.
- Specially designed multi-element lens system with dual illumination technology provides constant magnification across the field of view.
- Balancing accuracies achievable up to 0.5 microns for maximum rotor weight.
- Active CMOS sensor with integrated photo detector and amplifier delivers sharper images compared to standard CCD cameras.

EXTENSOMETER

Mechanical Extensometers

Model : FXT-3

- Attachment for Universal Testing Machines and Tensile Testing Machines, used to determine proof stress at specified elongation percentages.
- Measures elongation of the test specimen under load for the set gauge length.
- Least count of 0.01 mm, with maximum measurable elongation up to 3 mm.
- Adjustable gauge length ranging from 30 mm to 120mm.
- Accommodates round specimens from 1 mm to 20 mm diameter and flat specimens from 1 mm to 20 mm thickness.

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Electronic Extensometer

Model FE2-25-50

•• Designed for use with Tensile/Universal Testing Machines to determine proof stress and Young's modulus.
• Suitable for brittle materials such as high carbon steels, alloy steels, aluminium, and magnesium alloys where yield point is difficult to obtain.
• Determines proof stress at specified plastic strains of 0.1% or 0.2%.
• Measuring range up to 5 mm with 0.001 mm resolution.
• Standard gauge lengths: 25 mm and 50 mm; others optional.
• Compatible with computerized UTM; ensures Class-I accuracy as per IS:12872-1990.

BALANCING MACHINES

Horizontal Type DSP Based Dynamic Balancing Machines

Models : FBM-D, FSBM-D/DB

- BIE (unit of FSA) manufactures hard-bearing Horizontal two-plane Dynamic Balancing Machines with DSP/microcontroller/computerised panels (FBM-D, FSBM-D, FSBM-DB).
- Suitable for rotors like electric rotors, flywheels, crankshafts, cylinders, pump rotors, blowers, ID fans, and impellers.
- Fully automatic cycle with digital display of unbalance (grams/angle) and auto stop; optional electrical braking (~15 sec).
- Motor with gearbox and VFD starter for higher capacities.
- DAS panel with keyboard input; optional computerised models, software, extended beds, and vertical drill head.

Vertical Type DSP Based Dynamic Balancing Machines

Model : FVBM

- Vertical hard-bearing balancing machines designed for accurate balancing of rotors such as clutch plates, fan blades, flywheels, magnetic components, grinding wheels, compressors, and pulleys.
- Equipped with a microprocessor-based control panel with motor control/measurement facility for efficient operation.
- Capable of achieving high precision with minimum residual unbalance up to 0.5 micron at the centre of gravity (CG).
- Available in various models suitable for rotor weights ranging from 0.3 kg to 300 kg.
- Computerized versions also available with integrated printer and customizable features as per specific customer requirements.

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ROCKWELL HARDNESS TESTING MACHINES

Digital Screen Touch Rockwell Hardness Testing Machines
Models : TRS-DS / TRS-DO/TSM-DS /TRB-250-DS

- Designed for hardness testing of all metals/alloys—hard or soft, in round, flat, or irregular shapes.
- Semi-automatic, motorised system with digital microprocessor-based touch-screen display.
- Three independent dwell times for major/minor loads with display.
- Thumb-wheel automatic weight selection with auto cylindrical correction.
- Linear bearing-guided indenter for small diameters; RS-232 interface.
- Displays Vickers, Brinell conversion, and tensile strength.
- Least count: 0.1 HR and 0.2 HR superficial; conforms to IS/BS/ASTM standards; includes Brinell loads and 25X microscope.

Digital Rockwell / Rockwell Cum Brinell/ Rockwell Superficial Hardness Tester
Model : TRS-DN, TRB-250-DN, TSM-DN

- Suitable for hardness testing of all metals and alloys—hard or soft, including round, flat, and irregular shapes.
- Semi-automatic, motorized system with digital microprocessor-based panel and large LCD display.
- Three modes: motorized automatic, semi-automatic, and manual.
- Thumb-wheel automatic weight selection with auto cylindrical correction.
- Linear bearing-guided indenter for small diameters.
- Least count: 0.1 HR (Rockwell), 0.2 HR (Superficial).
- Brinell loads with 25X microscope provided.
- Conforms to IS, BSEN-ISO, and ASTM standards.

Standard-Rockwell/ Rockwell Cum Brinell/Rockwell Superficial Hardness Testing Machines.
Model : MRS, MSM,MRB-250

- Designed for measuring hardness of all metals and alloys—hard or soft, in round, flat, or irregular shapes.
- Automatic weight selection with automatic zero-setting dial gauge.
- Rockwell test with 10 kgf minor load and major loads of 60, 100, and 150 kgf.
- Rockwell scales (HRA, HRB, HRC) achieved using diamond or ball indenters.
- Rockwell Superficial method for thin sheets; minor load 3 kgf, major loads 15, 30, 45 kgf; scales HRN, HRT.
- Rockwell-cum-Brinell method for metals and alloys; suitable for non-ferrous materials.
- Brinell loads: 187.5 and 250 kgf; scale HB.
- Machines strictly conform to IS:1586-2000, IS:2281, BS:240, and ASTM-E-10 standards.

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IMPACT TESTING MACHINES

Astm & Iso Pendulum Impact Testing Machines

Models : AIT-300-ASTM & AIT-300-ISO

- ASTM model conforms to ASTM E-23-2007; ISO model to BS EN ISO 148-2:2008.
- Suitable for Charpy impact testing on various materials.
- Identical design except striker radius; combined ASTM & ISO model with optional extra striker.
- Single stand design enables quick, easy testing.
- Rigid frame minimizes energy absorption, ensuring accuracy.
- Heat-treated alloy steel critical parts enhance durability.
- Safety guard provided.
- 140° pendulum drop with spring-loaded braking; 300 J energy, least count 2 J (analogue) / 0.5 J (digital).

Analogue /Digital Pendulum Impact Testing Machines

(Model : AIT-300-N, AIT-300-EN, AIT-300-D, AIT-300-ASTM)

- Suitable for Charpy and Izod impact tests; operates on pendulum principle.
- Rigid frame minimizes energy absorption, improving test accuracy.
- Critical wear parts made of heat-treated special alloy steels.
- Impact energy indicated on dial (AIT-300-N/EN) or digital display (AIT-300-D).
- Safety guard provided for protection.
- Initial energy: 300 J (Charpy), 170 J (Izod); least count 2 J (analogue), 0.5 J (digital).
- Pendulum angles: 140° (Charpy), 90° (Izod); conforms to ASTM, IS, BS/EN standards.

Motorised Impact Testing Machines

Model: AIT-300-ASTM-MA/MD/MAD, AIT-300-ISO-MA/MD/MAD

- Motorised Impact Testing Machines (FSA) designed for Charpy testing across various materials.
- ASTM model conforms to ASTM E23-2007; ISO model complies with BS EN ISO 148-2-2008.
- Both variants share identical design, differing only in striker radius.
- Rigid frame ensures high accuracy and repeatability.
- Fully automatic operation with push-button controls.
- Aluminium enclosure with bulletproof safety cover.
- Easy specimen handling and door operation.
- Impact energy displayed via analogue/digital systems.
- Equipped with safety interlocks.
- Initial potential energy: 300 J (Charpy).

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STANDALONE MACHINES

Computerised Tensile Testing Machines

Model : TKG - EC

- Windows-based, user-friendly, menu-driven software with automatic on-screen calculations.
- Automatic data capture, storage, retrieval, and graphical display with print facility.
- Load measured via load cell; supports multiple load cells for wider range.
- Overload/over-travel safety with tare load and elongation reset.
- Displays load, elongation, and graph in real time; selectable units.
- Optional electronic extensometer for proof stress.
- Resolution: 10,000 counts (20,000 optional), 0.1 mm displacement.
- Capacity 200 N–50 kN; accuracy ±1%, conforms to IS/BS standards.

Digital Fatigue Testing Machines

Model : MFT-8-D

- Light, compact table model; no foundation required; suitable for fatigue testing and S-N diagram generation.
- Rotating beam type with reversed bending load application.
- Standard 8 mm specimen held in special holders for uniform bending moment.
- Motor-driven rotation at 4200 rpm ensures cyclic stress.
- Lever system enables easy load variation.
- Digital counter records failure revolutions.
- Interlocking system stops motor on failure.
- Conforms to IS 5075-1969; ideal for labs and industries.

Digital Torsion Testing Machines

Model : MTT-E

- Suitable for torsion and twist tests on metal rods and flats.
- Torque measured using a torque cell with high resolution over a single range.
- Geared motor applies torque through gearbox.
- Angle of twist measured via rotary encoder.
- LCD display on Data Acquisition System shows torque and twist.
- DAS panel can be connected to PC.
- Torque measurement accuracy ±1% from 4% to 100% of capacity.

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Erichsen Cupping Testing Machines

Model: MET-20

- Specifically designed to evaluate the cupping quality of metal sheets and strips, ensuring accurate assessment of formability and deformation characteristics under standardized test conditions.
- Also suitable for comparative testing of coated surfaces, enabling evaluation of adhesion strength, elasticity, and porosity of paint or varnish coatings applied on metal substrates.
- Requires a standard test specimen size of 70 × 90 mm, ensuring consistency and repeatability of test results.
- Capable of testing material thickness up to 2 mm, with an optional enhanced capacity to accommodate specimens up to 3 mm thickness at additional cost.
- Engineered in compliance with IS: 10175-1982 standards, ensuring reliability, accuracy, and adherence to established Indian testing specifications.

Bend and Rebend Testing Machines

Model - FBR-100 kN

- Designed for testing carbon steel bars up to 40 mm diameter for reinforced concrete applications.
- Robust C-frame construction with hydraulic operation for efficient performance.
- Maximum load capacity of 100 kN.
- Equipped with 100 mm diameter support rollers spaced at 400 mm.
- Interchangeable formers available from 6 mm to 400 mm diameter.
- Supplied with suitable re-bending tools integrated into the machine.
- Hinged grilled front safety doors provided for operator protection.
- Accuracy conforms to BS: 4449 standards.

Drop Weight Impact Testing Machines

Model - FDW-1650 J

- Designed for fracture toughness testing in accordance with ASTM E-208 standard.
- Multiple selectable energy levels: 350, 400, 450, 550, 800, 1100, 1350, and 1650 J.
- Equipped with a 136 kg drop weight and maximum fall height of 1237 mm, adjustable to achieve desired energy levels.
- Striker tip radius of 25.4 mm with minimum hardness of 50 HRC.
- Motorized striker lifting mechanism driven by an electric motor with approximate lifting speed of 1.2 m/min.

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Computerised & Analogue versions- Horizontal Chain & Rope Testing Machines

Model : FCR, FCR-E / FCR-EC

- Designed for proof and destructive tensile testing of chains, wire ropes, and long specimens.
- High loading accuracy with infinitely variable straining speeds for diverse materials.
- Continuous roll autographic recorder for load–elongation graph generation.
- Robust loading frame with simple controls for ease of operation.
- Equipped with essential safety devices for secure operation.
- Available in analogue models (pendulum dynamometer) and digital/computerized versions with display and printout.
- Optional accessories include extended bed, ram stroke, special grips, and load stabilizer.
- Capacity range: 100 kN to 3000 kN; accuracy ±1%, conforming to IS/BS standards.

Micro Vickers Hardness Testers

Model : FMV-1

- Suitable for fine components—thin sheets, wires, watch parts, razor edges, drills, foils, surgical needles, and pen points.
- Ideal for surface coatings, thin case-hardened parts, anodized aluminium, and treated surfaces.
- Test loads: 10 g to 1000 g; magnifications: 125X, 250X, 625X.
- X-Y stage with 0.01 mm least count; 136° diamond indenter.
- Capacity: 115 × 70 mm; accuracy ±1%, conforms to IS:1754.
- Computerized model with CCD, software, auto display/print; optional Knoop indenter and accessories available.

Manual & Motorised Charpy & Izod Notch Broaching Machines

Manual Notch Broaching Machine (Model: BMF)

- Robustly constructed machine designed for precise cutting of V and U notches using a specially engineered multi-toothed broach, operated via a rotating hand wheel for controlled feed.
- Cost-effective solution for impact notch preparation, delivering accurate results as per standards in a single pass within seconds.
- Equipped with a simple hand vice for secure specimen holding.
- Includes adjustable tooling with end stops to ensure correct notch depth and positioning, providing consistency, reliability, and repeatable performance.

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Motorised Notch Broaching Machine

(Model: Bmf-M)

- Robust, motorized design with a specially engineered multi-toothed broach enables highly accurate V and U notch cutting in a single pass within seconds.
- Simple, push-button operation ensures ease of use, reliability, and consistent performance without manual effort.
- Suitable for both ferrous and non-ferrous specimens.
- Equipped with a broach guard for enhanced operator safety.
- Features ball screw mechanism, LM bush-guided hardened rods, and micrometer fine feed for smooth, precise cutting action.
- Ensures excellent notch finish, repeatability, easy broach handling, and convenient front-door maintenance access.

Jomini Test Fixtures

Model : MJOM-25

- The end quench (Jominy) test, developed by Jomini and Boegehold, is the most widely used method for determining steel hardenability, as per IS: 3848–1981 and ASTM A255.
- A normalized steel specimen (25 mm diameter × 100 mm length) is uniformly heated to its austenitizing temperature, then removed and immediately end-quenched using a jet of room-temperature water.
- Opposite longitudinal flats are ground to specified dimensions, ensuring accurate positioning and repeatable, reliable results.
- Hardness is measured at equal intervals, plotted against distance, and curve flatness indicates relative hardenability of steels.

End Quench Test Apparatus

Model : MEQ-25

Apparatus used for determining steel hardenability by the End Quench (Jominy) Test, conforming to IS: 3848–1981 and ASTM A255 standards.

- Test involves heating a standard specimen to a specified temperature for a defined duration, followed by controlled water quenching at one end and hardness measurement along its length.
- After heating, the specimen is placed on a support where it is automatically centered relative to the water jet.
- Quick-action valve enables instantaneous jet impingement, while pump, tank, and piping ensure correct water head; enclosed system includes electrical controls and safety devices.

Machine representations are indicative. For queries, contact (+91) 7603057584.

Portable Dynamic Hardness Testing Machines

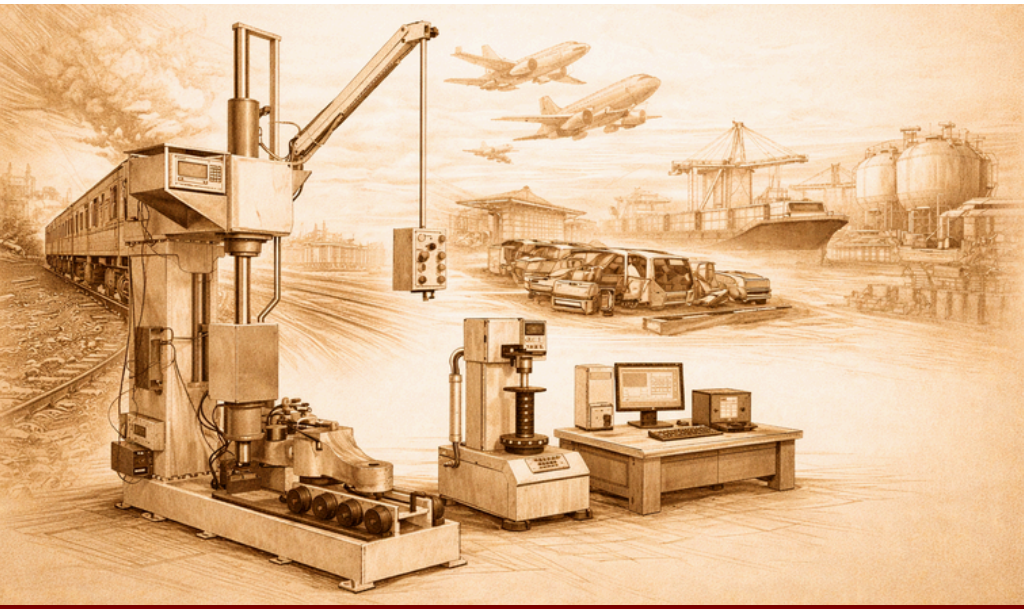
Model : DHT-6

- Sleek, portable design in a slim briefcase, ideal for hardness testing in confined spaces, large/heavy components, and installed parts at low cost.
- Built-in conversion of 'D' values to HV, HRB, HRC, HB, and UTS scales via arrow keys; supports 30 scales for various probes.
- Operates on two pencil cells; features 16×2 alphanumeric LCD with microcontroller-based, user-friendly interface displaying material, scale, and values.
- Compatible with probes D, G, SH, EX, and C; supports memory (100 readings), printer connectivity, RS-232 interface, auto calibration, and optional accessories.

Digital Brinell Microscopes

Model : BIMS

- B.I.A.S system virtually eliminates operator influence, reducing errors in Brinell indentation measurements and ensuring consistent, reliable test results.
- Measuring Brinell indentations manually often leads to operator-to-operator variations, which this system effectively minimizes.
- Easy "place and click" operation: position the scan head so the impression is centered and select "Auto" on the computer.
- Automatically measures indentation diameter with 0.01 mm resolution, displays Brinell value, and performs data storage as per batch parameters.



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METALLURGICAL EQUIPMENT

Precision Redefined.

Machine representations are indicative. For queries, contact (+91) 7603057584.

Profile Projector

- Compact, lightweight tabletop model for user-friendly operation
- 200/300 mm screen with 90° cross line, chart holders, 360° graduation, 1-minute vernier reading
- Transmitted illumination (12V, 100W halogen) with dual 10W LED incident lighting
- Manual focusing via hand wheel; optical distortion <0.15% for high accuracy
- Standard 10× magnification; optional 20×–100×
- Cross travel stage 150×150 mm; X–Y travel up to 50×50 mm
- Micrometer heads (0–50 mm, LC 0.005 mm); optional digital readout; noiseless cooling fan with safe packaging

Inverted Metallurgical Microscopes with Camera

(*with Image Analysis Software*)

- Designed for advanced reflected light examination of metallic and opaque specimens; ideal for metallurgical, material science, and industrial surface analysis
- Robust, ergonomic construction with trinocular head for viewing and image capture
- Precision ball-bearing nosepiece with graduated mechanical stage for smooth, controlled movement
- Halogen illumination with solid-state intensity control
- Semi-plan achromatic, hard-coated optics for high-contrast imaging
- Coarse and fine focusing; objectives 5x, 10x, 20x, 45x with WF 10× eyepieces and filters

Polishing Machines

- Specimen Polishing Machine (Table Top-Digital) (Double Disc)
- Silent operation with ½ HP high-speed, high-torque DC motor
- Standard disc diameter: 8 inches
- Equipped with digital electronic speed controller and display
- Intuitive and user-friendly interface for easy operation
- Plug-and-play design; no installation required
- Variable speed range from 50 to 1000 RPM
- Ensures smooth, noise-free, and jerk-free performance
- Designed for consistent and reliable operation in laboratory environments
- Compact and efficient system suitable for precision applications
- Ideal for metallurgical and material preparation processes requiring controlled speed and stability

Machine representations are indicative. For queries, contact (+91) 7603057584.

Specimen Cutter Machine

- Suitable for cutting various metal and non-metal materials for metallographic and petrographic analysis.
- Equipped with a cooling device; configured coolant removes heat and prevents overheating.
- User-friendly operation, ideal for factories, research institutions, and college laboratories.
- Input voltage: 380V, 50Hz, three-phase; input power: 12.4 kW; cutting power: 2.2 kW.
- Spindle speed: 2800 rpm; max cutting diameter: 80 mm.
- Cutting wheel: 25 × 2 × 32 mm; manual Z-axis only (no X/Y).
- Dimensions: 690 × 740 × 670 mm; net weight: 82 kg.

Spectro Polisher

• Spectro polishing machine built with advanced technology and high-quality materials; compact, robust design with easy paper replacement for efficient operation
• Integrated dust collector with disposable bag ensures safe and effective collection of hazardous particles; customizable options available at affordable pricing
• Disc cover provides 180° protection; durable steel disc plate with air gripping arrangement and locking system for secure positioning
• Rear-mounted dust collection pipeline enhances efficiency; noiseless continuous operation with anti-fungal, rust-proof coating
• Specifications: 2 HP main motor (2800 rpm), 1 HP air gripping motor (1400 rpm), 440/460 V, 3-phase AC supply, and L&T push-button starters

Belt Grinding Machine

•Belt grinding machine operating on 220V single-phase power with manual operation for controlled processing
• Equipped with 100 × 915 mm endless belt, ensuring efficient and consistent grinding performance
• Balanced pulleys provide smooth, stable, and vibration-free operation during use
• Powered by a 1/2 HP polishing motor, suitable for precision surface finishing applications
• Designed for versatile use across metallurgical laboratories, forging industries, fasteners industries, casting industries, iron & steel industries, and auto-parts ancillaries
• Compact, reliable, and efficient solution for material preparation and surface finishing tasks

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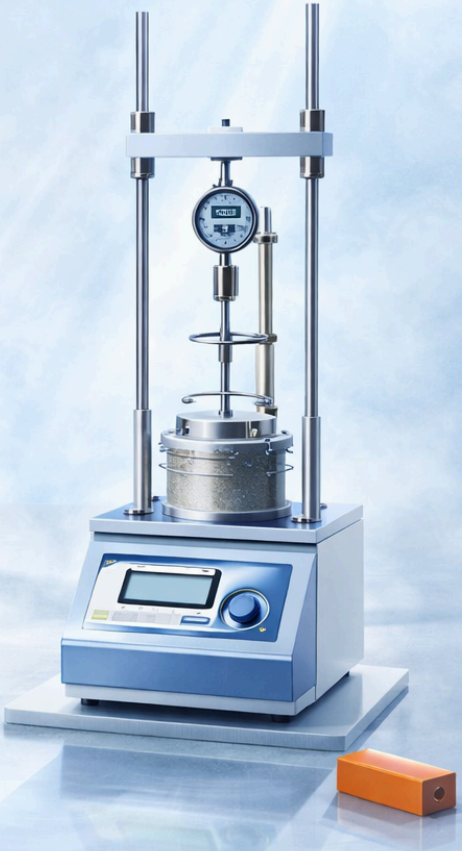
CIVIL ENGINEERING EQUIPMENT



Innovation In Strength.

Machine representations are indicative. For queries, contact (+91) 7603057584.

Compression Testing Machine

- Hydraulic, electrically operated digital compression testing machine featuring a robust channel-type construction for enhanced structural strength and stability
- Capacity range: 0–200 tonnes, making it suitable for a wide variety of compression testing applications across materials and industries
- Supplied with flexure test attachment, enabling additional testing versatility beyond standard compression tests
- Handwheel-based speed control system allows precise regulation of load application rate for accurate and repeatable results
- Manual hand pumping provision ensures uninterrupted operation during power failure conditions

Slump Cone Test Apparatus

- Conforms to IS: 7320 standard for reliable and standardized testing
- Designed to determine the workability of concrete where aggregate size does not exceed 38 mm
- Comprises a slump cone with foot pieces, securely fitted on a base using wing bolts
- Includes a swivel carrying handle attached to the base, serving as a datum for slump measurement when positioned vertically
- Supplied with a graduated tamping rod for compacting the specimen and accurately measuring concrete slump

Core Hardness Tester

- Handheld scratch-type Core Hardness Tester featuring a dial indicator with a special tip for accurate measurement of sand core hardness
- Simple operation: tip is pressed on a flat core surface and pulled longitudinally to obtain direct hardness readings on the dial
- Measurement range 0–100 CHN with least count 1 CHN, ensuring clear and precise readings
- No electrical or compressed air supply required, offering complete portability and ease of use
- Compact design (200 × 180 × 35 mm) with approx. 0.9 kg net weight for convenient handling
- Traceable to NABL standards; BIS compliant, operates effectively within 0–50°C
- Supplied with accessories and calibration certificate.

Machine representations are indicative. For queries, contact (+91) 7603057584.

Mould Hardness Tester

- Handheld Mould Hardness Tester (B Scale) with dial indicator and special tip for measuring hardness of soft sand moulds such as green sand
- Simple operation: tip pressed on flat mould surface to obtain hardness readings (0–100 MHN, least count 1 MHN)
- No electrical or compressed air supply required, ensuring portability and ease of use
- Compact size (190×125×40 mm), lightweight (~0.5 kg net, 1.0 kg gross)
- Traceable to NABL standards; BIS compliant, operates within 0–50°C
- Supplied with accessories, calibration certificate, and manual;

Rapid Moisture Meter

- Rapid Moisture Meter (VM) handheld unit with dial indicator marked in percentages for measuring moisture in sand samples
- Operation: sand sample mixed with measured absorbent compound, sealed, shaken to obtain direct moisture % (0–10%, least count 0.1%)
- No electrical or compressed air required; compact (350×300×200 mm), ~10 kg net weight
- BIS compliant, operates at 0–50°C; traceable to manufacturer standards
- Supplied with accessories, calibration certificate, and wooden case

Sieve Test Apparatus

- Test sieve designed for accurate particle size separation and sieve analysis, including GFN determination in foundry sand testing
- Frame size: 8 in (203 mm) diameter, Full Height configuration for standard compatibility
- Material: high-quality stainless steel frame and mesh ensuring durability and corrosion resistance
- Monolithic construction without welding, soldering, or filler material to maintain contamination-free testing
- Applications: particle size analysis, grading, and quality control across laboratory and foundry environments

Machine representations are indicative. For queries, contact (+91) 7603057584.

Cube Mould

- Cube moulds as per IS 516, suitable for vibrating machine applications; street cube mould 2.78 in (7.06 cm) supplied complete with base plate
- Cast iron cube moulds with base plates ensuring strength, durability, and dimensional stability
- Available sizes: 5×5×5 cm, 10×10×10 cm, and 15×15×15 cm
- Precision construction for accurate specimen preparation in concrete testing
- Designed for reliable performance in laboratory and field testing environments

Concrete Test Hammer

- Designed for non-destructive testing (NDT) to assess the quality of concrete in finished structures without causing damage.
- Measures the rebound number, which depends on the strength of surface mortar (concrete excluding coarse aggregates).
- Since mortar strength generally reflects overall concrete strength, the rebound value provides a reliable indication of compressive strength.
- Test results typically represent about ±15% variation from actual compressive strength.
- Enables quick, on-site evaluation of structural integrity.
- As the specimen remains intact, curing continues uninterrupted, allowing accurate follow-up testing and monitoring over time.

CBR Test Apparatus

- Unit comprises steel bearing plates (25 mm thick) in 75, 60, 45, and 30 cm diameters, available in plain and chequered finishes.
- Includes bridge support with two dial gauge clamps for stable measurement setup.
- Equipped with a 50-ton capacity hydraulic jack, complete with 2 m steel pipe connection, separate pump, and pressure gauge.
- Features ball-and-socket arrangement for proper load alignment.
- Supplied with load truss, four soil anchors, and working collars (20 & 30-ton capacity).
- Includes dial gauge with 0.01 mm least count for precise readings.

Machine representations are indicative. For queries, contact (+91) 7603057584.

Aggregate Impact Tester

- Designed for determining the Aggregate Impact Value (AIV) of materials in accordance with IS: 2386 (Part IV) standards.
- Features a sturdy construction comprising a base and support columns forming a rigid framework.
- Ensures stability and durability during testing operations.
- Equipped with a quick-release trigger mechanism for controlled operation.
- Provides an effective free fall of the hammer, ensuring accurate and repeatable test results.
- Suitable for reliable assessment of aggregate toughness and resistance to impact.

Thickness Gauge,

- Conforms to IS: 2386 standard for determining the flakiness index of aggregates.
- Designed to evaluate particle shape by identifying flaky (thin) aggregate particles.
- Consists of a rigid, durable panel with precisely machined slots.
- Slots are accurately cut to standard lengths and widths as specified.
- Ensures reliable and consistent measurement results.
- Simple, manual operation suitable for laboratory and field use.
- Robust construction provides long service life and

Length Gauge

- Conforms to IS: 2386 (Part) for determining elongation index of coarse aggregates.
- Designed to assess particle shape by identifying elongated aggregate particles.
- Consists of a steel plate with eight vertically mounted steel pins.
- Pins are fixed at specified distances to ensure standard measurement accuracy.
- Complete assembly is rigidly mounted on a durable hardwood base.
- Also includes Tile Flexure Strength Tester as per IS: 654-1962.
- Used for determining breaking load of clay roofing tiles accurately.

Machine representations are indicative. For queries, contact (+91) 7603057584.

Universal Strength Machine (Hydraulic)

- Hydraulic unit with high/low pressure gauges and compression pads; range: low up to 1600 gms/cm², high up to 13 kg/cm²
- Measures compression, shear, tensile, transverse, and deformation strengths of sands.
- Low gauge: compression 0–1600 gms/cm², shear 0–1300 gms/cm², tensile 0–6 kg/cm², transverse 0–60 kg/cm²
- High gauge: compression 0–13 kg/cm², shear 0–10 kg/cm², tensile 0–50 kg/cm², transverse 0–500 kg/cm²; VUH: 20–200 kg/cm²
- Suitable for green, hot/cold box, resin, no-bake, oil, CO_2 sands

Digital Permeability Meter

- Research-grade digital permeability meter for foundry sands; suitable for routine and advanced testing
- Measures permeability using proven dead-weight method with high-speed sampling electronics for accurate results
- Ensures precise readings with minimal user intervention
- Applicable for cold box, green sand, no-bake, resin-coated (hot), and CO_2 sand systems
- Supports testing categories including raw sand and advanced/basic equipment applications across various sand testing processes

AFS Calculator, Sand Testing

- AFS calculator designed for determining AFS Grain Fineness Number (GFN) of foundry sand
- Ensures accurate evaluation of sand particle size distribution for quality control
- Supports standard AFS sieve analysis calculations with improved speed and reliability
- Reduces manual calculation errors and operator dependency
- Suitable for laboratory and routine shop-floor testing applications
- Enhances consistency in moulding sand properties and casting performance
- Widely used in foundries for process control and sand system optimization

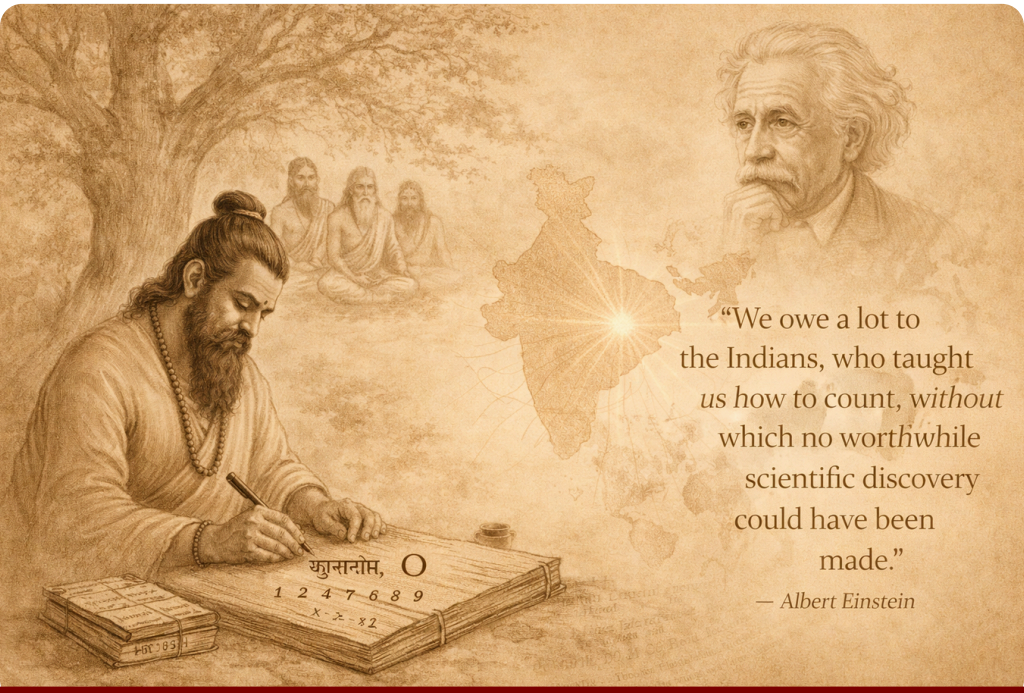
Machine representations are indicative. For queries, contact (+91) 7603057584.

Hot Plate

- Specially designed for laboratory use
- Controlled via three heat rotary switches for precise temperature regulation
- Supplied complete with plug pin and cord
- Suitable for operation on 220V A.C. mains
- Compact size with 20 cm diameter

Ductility Testing Machine

- Designed for determining properties of asphalt, cut bitumen, and blown bitumen
- Thermostatically controlled bath with inlet and outlet taps
- Fixed and movable brackets ensure specimen remains fully submerged during testing
- Pull rates of 50 mm/min and 10 mm/min incorporated
- Clutch mechanism stops movement upon specimen rupture
- Operates on 230V, 50 Hz, single-phase A.C. supply
- Supplied with three moulds and plates; mounted on apparatus (thermometer not included)



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LABORATORY EQUIPMENT

Defined by Excellence

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Liquid Sub Zero Bath

- Robust angle iron framework with inner chamber of stainless steel and outer chamber of mild steel, finished with durable powder coating.
- Polyurethane insulation between walls minimizes thermal loss and ensures efficient operation.
- Equipped with two hermetically sealed compressors in a cascade refrigeration system for sub-ambient cooling.
- Uses copper cooling coils with CFC-free refrigerant.
- Achieves temperature down to −60°C, controlled by dual-setting PID microprocessor-based digital controller.
- Operates on 220–230V, single-phase AC mains.

Front Open Dry Cooling Chamber

- Inner chamber constructed from high-quality stainless steel sheet for durability and corrosion resistance.
- Outer chamber made of mild steel sheet with a robust powder-coated finish.
- Air-cooled system ensures efficient and uniform cooling performance.
- Refrigeration system comprises hermetically sealed compressor, cooling coil, condenser, and associated components.
- Temperature regulated via indicator-cum-controller with integrated sensor for accuracy.
- Operates on 220/230V AC power supply.
- Chamber size: 200 × 200 × 250 mm, suitable for compact laboratory applications.

Muffle Furnaces

- Maximum temperature up to 1200°C, with working temperature also up to 1200°C
- Temperature precisely controlled by Digital Temperature Indicator cum Controller (PID)
- Outer body constructed from thick Mild Steel Sheet with durable enamel paint finish
- Equipped with high-quality thermocouple for accurate sensing
- Fitted with two neon light indicator switches for operational status
- Supplied complete with trays, wire, and plug
- Operates on 220/230 V A.C. power supply
- Insulated with efficient ceramic blanket for superior thermal retention

Machine representations are indicative. For queries, contact (+91) 7603057584.

Humidity Chambers

- Humidity Chamber built as per requirements and maker's standard supply
- Double-wall construction with SS interior and powder-coated MS exterior
- Polycarbonate inner door: unbreakable, airtight, transparent, temperature resistant
- Non-condensing steam injection humidity system with standby heater
- Mounted on caster wheels; SS wire mesh perforated trays for airflow
- Capacity: 18×18×18″; Temp: 10°C–50°C (±1°C accuracy)
- Humidity: 40–95% (±2–3% accuracy)
- PID temperature control; direct humidity reading
- Safety: high-temp, low-water, overload cut-offs
- Power: 220V, single-phase AC

Hot Air Oven

- Industrial Hot Air Oven designed for uniform heating, drying, and sterilization applications
- Double-wall construction with stainless steel inner chamber and powder-coated mild steel exterior
- High-density insulation minimizes heat loss and improves efficiency
- Temperature range up to 250°C/300°C with ±1°C accuracy
- Forced air circulation via motorized blower ensures uniform temperature distribution
- PID digital temperature controller with sensor
- Adjustable perforated trays for flexible loading
- Safety features: over-temperature cut-off and electrical protection
- Operates on 220/230V AC supply

Water Bath

- Digital Water Bath is a precision, digitally controlled unit designed for consistent temperature maintenance.
- Operates within a temperature range of 32°C to 80°C (89.6°F to 176°F).
- Ideal for softening various waxes and compound materials efficiently and uniformly.
- Ensures accurate temperature regulation for reliable laboratory and industrial use.
- Inner chamber is constructed from high-grade stainless steel for durability and corrosion resistance.
- Outer chamber is made of mild steel sheet with a powder-coated finish for strength and protection.

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Weighing Balances

- Weighing balances are precision instruments used to determine the weight or mass of objects accurately.
- They are available in a wide range of sizes, designs, and weighing capacities to suit diverse applications.
- These instruments ensure reliable and consistent measurement results across different environments.
- Commonly used in laboratories, they support scientific analysis and research activities.
- Widely utilized in commercial kitchens for portion control and recipe accuracy.
- Essential in pharmacies for precise measurement of medicines and formulations.

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Designed for Trust.

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Operating across **Eastern and North-East India,** we provide **NABL-** and **ASTM-accredited** calibration, **expert installation,** and **hands-on training.**

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