

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

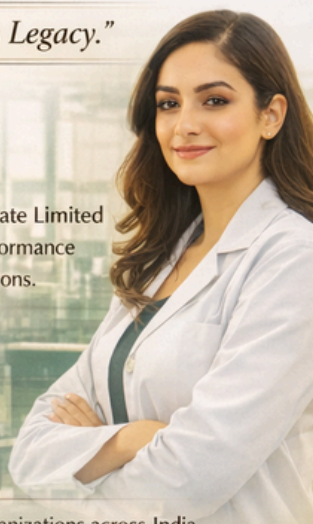
Our Vision: *To be the leading provider of innovative testing solutions in India.*

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."





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

7. Digital, Hand operated, Coil Spring Testing Machines
8. Leaf Spring Testing Machines

Brinell Hardness Testing Machines

9. Automatic Optical Brinell Hardness Testing Machines.
10. Brinell Hardness Testing Machines / Testers.
11. Optical Brinell Hardness Testing Machines.
12. Computerized Brinell Hardness Testing Machines
(With Inbuilt Industrial Pc & Touch Screen Facility)
13. Deep Throat Brinell Hardness Testing Machines with Roller Conveyors
14. Deep Throat Brinell Hardness Tester-WOM Type (With Fixed Table)

Vickers Machines

15. Vickers/ Vickers cum Brinell Hardness Testers
16. Computerised Vickers Hardness Testers

Extensometer

17. Mechanical Extensometer
18. Electronic Extensometer

This is where science met soul.





OUR INTEGRATED MACHINE PORTFOLIO

"Engineered. Delivered. Supported."

Balancing Machines

19. Horizontal Type DSP Based Dynamic Balancing Machines
20. Vertical Type DSP Based Dynamic Balancing Machines

Rockwell Hardness Testing Machines

21. Digital Screen Touch Rockwell Hardness Testing Machines
22. Digital Rockwell / Rockwell Cum Brinell/ Rockwell Superficial Hardness Testing Machines.
23. Standard-Rockwell/ Rockwell Cum Brinell/Rockwell Superficial Hardness Testing Machines.

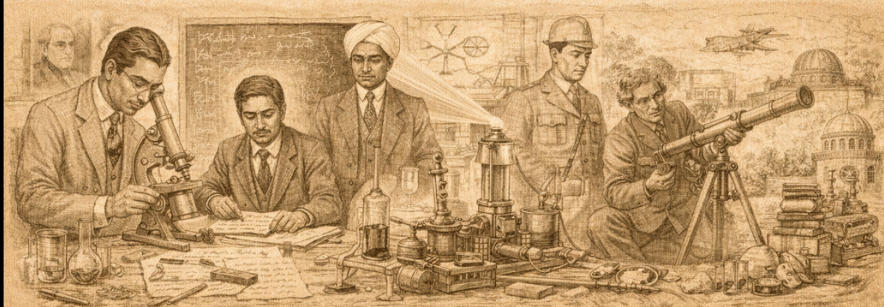
Impact Testing Machines

24. Astm & Iso Pendulum Impact Testing Machines
25. Analogue /Digital Pendulum Impact Testing Machines
26. Motorised Impact Testing Machines

Standalone Machines

27. Computerized - Tensile Testing Machines
28. Digital Fatigue Testing Machines
29. Digital Torsion Testing Machines
30. Erichsen Cupping Testing Machines
31. Bend & Re-Bend Testing Machines
32. Drop Weight Impact Testing Machines
33. Computerised & Analogue versions- Horizontal Chain & Rope Testing Machines
34. Micro Vickers Hardness Testing Machines
35. Manual & Motorised - Charpy & Izod Notch Broaching Machines
36. Jominy Test Fixtures
37. End Quench Test Apparatus
38. Portable Dynamic Hardness Testing Machines
39. Digital Brinell Microscopes

*Where curiosity ignites,
a nation rises.*





OUR INTEGRATED MACHINE PORTFOLIO

"Engineered. Delivered. Supported."

SECTION 2 METALLURGICAL EQUIPMENT

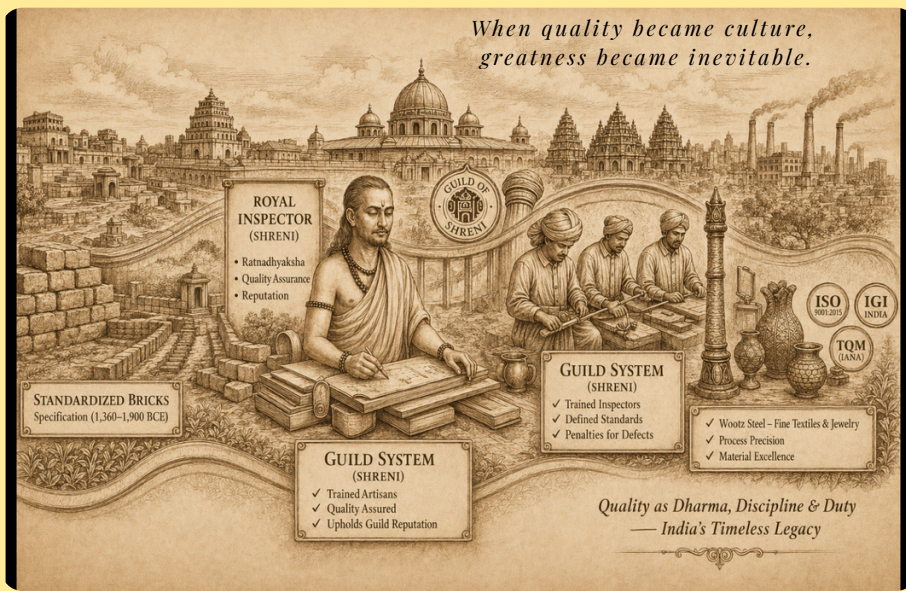
1. Compression Testing Machines
2. Slump Cone Test Apparatus
3. Core Hardness Tester
4. Mould Hardness Tester
5. Rapid Moisture Meter
6. Sieve Test Apparatus
7. Cube Mould
8. Concrete Test Hammer
9. CBR Test Apparatus
10. Aggregate Impact Tester
11. Thickness Gauge,
12. Length Gauge
13. Universal Strength Machine
14. Digital Permeability Meter
15. AFS Calculator, Sand Testing
16. Hot Plate
17. Ductility Testing Machine

SECTION 3 CIVIL ENGINEERING EQUIPMENT

1. Profile Projectors
2. Inverted Metallurgical Microscopes with Camera, Image Analysis Software
3. Polishing Machines
4. Specimen Cutter Machine
5. Spectro Polisher
6. Belt Grinding Machine

SECTION 4 LABORATORY EQUIPMENT

1. Liquid Zero Bath
2. Front Open Dry Cooling Chamber
3. Muffle Furnaces
4. Humidity Chambers
5. Hot Air Oven
6. Water Bath
7. Weighing Balances



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





UNIVERSAL TESTING MACHINES

Analogue - Universal Testing Machines

Model : TUN

Multi-Functional Universal Testing Machine

1. **Versatile Testing:** Executes tension, compression, and transverse tests on diverse metallic materials.
2. **Integrated Documentation:** Features a continuous roll autographic "Load vs Elongation" recorder for real-time data.
3. **Precision & Compliance:** Maintains $\pm 1\%$ loading accuracy, strictly conforming to IS:1828 and BS:1610 standards.
4. **Extensive Customisation:** A wide range of optional accessories is available, including extensometers, load stabilisers, and specialised attachments for shear, bolt-nut, rope, and 180° bend testing.
5. **Scalable Capacity:** Available in various models ranging from 100 kN to 2000 kN.
6. Additional accessories available as per requirement.



*Testwin:
Delivering FSA Excellence.*

Computerised - Universal Testing Machines

Model : TUE-C

Model TUN: Advanced Control & Data Management

1. **Smart Automation:** Features automatic data capture, storage, and retrieval with real-time graphical displays of load and extension.
2. **Precision Performance:** Delivers 0.01% load resolution across the entire range with fully automatic on-screen calculations.
3. **Safety & Output:** Includes automatic detection/shutdown for overload, over-travel, and specimen breakage, plus digital printer output for detailed reports.
4. **User-Centric Software:** Provides an accurate, user-friendly interface incorporating all Model TUN facilities for comprehensive testing and documentation.



*Legacy of Quality.
Future of Testing.*

Analogue Cum Computerised - Universal Testing Machines

Model : TUE-CN

Dual-System Universal Testing Machine

1. **Hybrid Control:** Features a DC valve to toggle oil flow between the analogue and computerised control panels (one active at a time).
2. **Dual Interface:** Both analogue and digital panels are provided for maximum operational flexibility.
3. **Performance:** Loading accuracy of $\pm 1\%$, conforming to IS:1828 / BS:1610 standards.
4. **Capacity:** High-versatility range available in various models from 100 kN up to 2000 kN.
5. **Precision:** Guaranteed reliability for diverse industrial testing requirements.



Transform Your Testing Workflow.

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



Servo Computerized - Universal Testing Machines

(With Load & Strain Rate Controls)

Model : TUE-C-Servo

High-Precision Proportional-Integral-Derivative Control System

- 1. Advanced Control:** Imported pressure/flow valves with a PID controller ensure precise closed-loop load and strain rate management.
- 2. Smart Interface:** A 32-bit microcontroller DAS panel offers multiple control modes and USB connectivity for PC integration.
- 3. Precision Specs:** Delivers $\pm 1\%$ load accuracy (2%–100% capacity) and customizable rates via user-friendly software.
- 4. Versatile Range:** Capacities from 100kN to 2000kN, fully conforming to IS:1828 and BS:1610 international standards.



Uncompromising Integrity.

Servo Computerized - Universal Testing Machines

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

Model : TUF-C-Servo

TUE-C-SERVO: High-Precision Testing System

- 1. Precision Control:** Servo-controlled system utilising closed-loop PID and imported valves for exact load and strain rate management.
- 2. Superior Accuracy:** Delivers high-precision performance with $\pm 0.5\%$ accuracy across 2% to 100% of machine capacity.
- 3. Advanced Hardware:** Features a front-end opening crosshead and a robust hydraulic gripping system for efficient specimen handling.
- 4. Compliance & Range:** Available from 400kN to 2000kN, conforming to IS:1828 and BS:1610 standards.
- 5. Reliability:** Includes all advanced specifications of the Model: TUE-C-(SERVO) line.



The Core of Quality Control.

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

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

High-Capacity Industrial Testing System (2000 kN)

- 1. Exceptional Capacity:** A heavy-duty 200-tonne system designed for massive specimens, comfortably testing bars up to 50–60 mm diameter without jerks.
- 2. Operational Efficiency:** Features a 300 mm/min middle crosshead speed with column-mounted push buttons for ergonomic control.
- 3. Enhanced Durability:** Engineered with increased jaw and insert length for superior rigidity and specimen grip.
- 4. Precision Standards:** Strictly conforms to IS:1828 & BS:1610, incorporating all advanced features of Models TUN & TUE-C.



Relentless Reliability

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Computer Controlled, Ball-Screw Driven Universal Testing Machines Model :M Series

Advanced Twin-Column Universal Testing Machine

1. **Precision Drive:** Features a double-column, twin ball-screw design powered by an AC servo motor for infinitely variable crosshead control.
2. **Broad Versatility:** Conducts tension, compression, peel, and shear tests on rubber, plastics, and metals (1–100 kN range).
3. **Data & Analytics:** Windows-based software stores 50,000 tests, providing real-time graphing and automatic calculations (UTS, Yield, Proof Stress).
4. **Safety & Standards:** High-accuracy load cell with overload protection; maintains $\pm 1\%$ accuracy conforming to IS:1828 and BS:1610 standards.



*Simply
Superior Systems.*

SPRING TESTING MACHINES

Digital, Hand Operated, Coil Spring Testing Machines Model :STM



*The Best of FSA,
Curated by Testwin.*

Table-Mounted Digital Testing Machine

1. **Precision Measurement:** Hand-operated system featuring a load cell for force and a rotary encoder for 0.01 mm displacement resolution.
2. **Clear Interface:** DAS panel with LCD display provides a load resolution of 10,000 counts (optional 20,000).
3. **Versatile Specs:** Offers 300 mm vertical daylight; includes tension shackles and compression plates specifically for spring testing.
4. **Scalability:** Supports multiple load cells for extended ranges; available in capacities from 100 N to 2000 N.
5. **Reliability:** Maintains $\pm 1\%$ accuracy conforming to IS:1828 and BS:1610 standards.

Leaf Spring Testing Machines Model : FST, FST-E, FST-EC

Heavy-Duty Spring Testing Machine

1. **Versatile Spring Testing:** Evaluates leaf, laminated, helical, and disc springs for load rate, conforming to IS:1135-1984.
2. **Operational Ease:** Features a large table with motorized height adjustment and automatic load selection across various ranges.
3. **Multi-functional:** Supports compression, shear, Brinell, and bending tests with optional accessories and an integrated autographic recorder.
4. **Safety & Precision:** Includes overload/over-travel protection and $\pm 1\%$ accuracy (IS:1828/BS:1610).
5. **Customisation:** Optional load stabiliser available for constant load maintenance; capacities range from 100 kN to 500 kN.
6. Available in analogue, digital, and computerized versions.



Absolute Control. Always.

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BRINELL HARDNESS TESTING MACHINES

Automatic Optical Brinell Hardness Testing Machines (Model : OPFA-3000, OPFA-3000-PC)



Quality by FSA. Service by Testwin.

High-Speed Production Brinell Hardness Tester

1. **Production Built:** Robust C-type frame ideal for foundries and testing cast/forged components like leaf springs and camshafts.
2. **Efficiency:** High-speed cycle (~12 seconds) with mostly automatic operation and push-button start to minimise operator fatigue.
3. **Technical Precision:** Dual load stages (750 kgf & 3000 kgf) with a 14× optical system and 0.01 mm least count microscope.
4. **Advanced Options:** Computerised model includes CCD integration and auto-reporting; strictly conforms to IS:2281 accuracy standards.

Brinell Hardness Testing Machines

Model : AKB-3000

1. **Versatile Application:** Measures hardness for ferrous (steel) and non-ferrous (brass, aluminium) materials, including cast, forged or irregular shapes.
2. **Precision Engineering:** Features a floating fulcrum lever system and dead-weight load application for high accuracy in production environments.
3. **Operational Specs:** Utilises a hydraulic system for smooth load damping and initial lifting.
4. **Technical Range:** Supports test loads from 500 to 3000 kgf (250 kgf steps) with a 380 × 200 mm testing capacity.
5. **Measurement:** Includes a 25X Brinell Microscope for precise indentation analysis.



*Measured by
Excellence.*

Optical Brinell Hardness Testing Machines

Model : OPAB-3000

Precision Optical Brinell Hardness Tester

1. **Integrated Optics:** Modified design featuring an inbuilt 14X optical system and automatic indenter indexing for direct screen measurement (0.01 mm least count).
2. **Reliable Engineering:** Utilizes a floating fulcrum lever and dead-weight system with hydraulic damping for high-speed, accurate industrial testing.
3. **Technical Range:** Supports loads from 500 to 3000 kgf with a 380 × 200 mm testing envelope.
4. **Compliance:** Conforms to IS:2281-2005 and BS:240 standards; optional computerized upgrades available for automated reporting.



*The Signature of
Global Testing.*

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Computerised Brinell Hardness Testing Machines

(With Inbuilt Industrial Pc & Touch Screen Facility)

Model : OPAB-3000-PC

Advanced Computerized Brinell Tester

- 1. Versatile Material Testing:** Engineered for ferrous (steel) and non-ferrous (brass, aluminum) materials, accommodating cast, forged, or irregular shapes with high precision.
- 2. Precision Engineering:** Utilizes a floating fulcrum lever and dead-weight system with a dedicated bottom-mounted hydraulic power pack for maximum stability and smooth load application.
- 3. Smart Automation:** Features automatic indenter indexing and an Integrated PC (IPC) that displays magnified images for instant area measurement and hardness calculation, significantly reducing cycle time and operator fatigue.
- 4. Industrial Standard:** Optimized for foundries and heat treatment units; strictly conforms to IS: 2281-2005 and BS: 240.

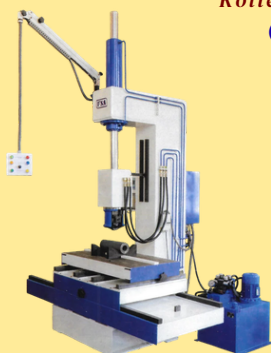


*Engineered by FSA.
Optimized by Testwin.*

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

(Model: "TEXMACO" Type)

High-Capacity Semi-Automatic Brinell Tester



The Architecture of Accurate Testing.

- 1. Industrial Heavyweight:** A semi-automatic inline production tester specifically designed for batch testing heavy jobs like cylinder blocks, wheels, and plates.
- 2. Robust Frame:** Features a C-type load frame with a 400 mm throat and 750 mm vertical clearance.
- 3. Movable Precision Table:** A large 1100×600 mm table supports up to 700 kg, offering 1000 mm (X-axis) and 200 mm (Y-axis) of travel.
- 4. Performance:** Reliable ram stroke of 300 mm with rapid speeds up to 1200 mm/min.
- 5. Technical Specs:** Dual load stages (750/3000 kgf) with a 25x microscope (0.01 mm least count).
- 6. Compliance:** Conforms to IS:2281-2005 and BS:240 standards.

Deep Throat Brinell Hardness Tester With Fixed Table

(Model: WOM Type)

Heavy-Duty Inline Brinell Hardness Tester

- 1. High-Capacity Testing:** Semi-automatic system optimized for batch testing heavy industrial components, featuring a massive 1200 × 600 mm fixed table with a 1500 kg load capacity.
- 2. Robust Construction:** Heavy-duty C-type frame provides a 400 mm throat and up to 900 mm test height for oversized specimens.
- 3. Precision Specs:** Dual load stages of 750/3000 kgf (optional 500/1000 kgf) with a 25X microscope (0.01 mm least count).
- 4. Operational Speed:** Features a 300 mm ram stroke with rapid vertical speeds up to 930 mm/min.
- 5. Compliance & Options:** Conforms to IS:2281-2005 and BS:240; supports optional BIMS system and custom fixtures.



Built for the Bold.

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



VICKERS MACHINES

Vickers Cum Brinell Hardness Testing Machines

Model : BV



*Elevating
Every Experiment.*

Versatile Vickers & Brinell Hardness Tester

1. **Dual-Functionality:** Expertly tests metals ranging from soft to extremely hard using both Vickers and Brinell methods.
2. **Precision Optics:** Features 35X, 70X, and 140X magnifications and a 136° diamond pyramid indenter for pinpoint accuracy.
3. **Operational Specs:** Simple push-button load selection across a wide range (1 kg to 250 kg) with ±1% accuracy (IS: 1754).
4. **Capacity:** 250 mm height and 150 mm throat.
5. **Advanced Data:** The computerised model includes CCD integration for automatic display, software analysis, and result printouts.

Computerised Vickers Hardness Testers

Model : FV-50 PC

Computerized Vickers Hardness Testing System

1. **Precision Imaging:** Utilises an active CMOS sensor and advanced edge-detection image processing for sharper, more accurate, and repeatable results than standard CCD systems.
2. **Optics & Illumination:** Features a multi-element lens system with dual illumination, ensuring constant magnification and 0.5-micron accuracy.
3. **Integrated Workflow:** A fully computerised system for automated measurement, display, and data management on a dedicated PC.
4. **Efficiency:** Designed for high-speed analysis, delivering superior performance through sophisticated digital measurement techniques.

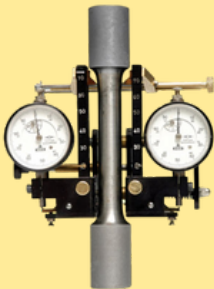


*Algorithmic Perfection in
Every Indentation.*

EXTENSOMETER

Mechanical Extensometers

Model : FXT-3



*Trusted tactile
strain measurement.*

Precision Mechanical Extensometer Attachment

1. **Functional Application:** Essential attachment for UTM and Tensile Testing Machines to determine proof stress at precise elongation percentages.
2. **Measurement Specs:** Accurately measures specimen elongation under load with a 0.01 mm least count and a 3 mm maximum range.
3. **Versatile Geometry:** Accommodates round and flat specimens up to 20 mm in diameter or thickness.
4. **Adjustable Range:** Features a flexible gauge length adjustable from 30 mm to 120 mm to suit diverse testing requirements.

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Electronic Extensometer

Model FE2-25-50



*High-sensitivity
deformation tracking.*

High-Resolution Electronic Extensometer

- 1. Precision Analysis:** Designed for Tensile and Universal Testing Machines to accurately determine Young's Modulus and proof stress.
- 2. Material Suitability:** Ideal for brittle materials, including high-carbon steels and aluminum alloys, in which the yield point is not readily detectable.
- 3. Technical Specs:** Offers a 5 mm measuring range with an ultra-fine 0.001 mm resolution for 0.1% or 0.2% plastic strain measurements.
- 4. Versatility & Compliance:** Features standard 25 mm and 50 mm gauge lengths; ensures Class-I accuracy per IS:12872-1990 standards.

BALANCING MACHINES

Horizontal Type DSP Based Dynamic Balancing Machines

Models : FBM-D, FSBM-D/DB

Dynamic Balancing Machines (FBM/FSBM-D Series)

- 1. Precision Balancing:** Hard-bearing, horizontal two-plane machines utilizing advanced DSP/microcontroller or computerized panels for superior accuracy.
- 2. Versatile Application:** Ideal for a wide range of rotors, including electric armatures, crankshafts, pump impellers, and blowers.
- 3. Automated Operation:** Features a fully automatic cycle with digital unbalance display (grams/angle), auto-stop, and optional 15-second electrical braking.
- 4. Advanced Hardware:** Equipped with gearbox-driven motors and VFD starters; supports optional computerized software, extended beds, and vertical drill heads for high-capacity testing.



*Eradicating vibration through
digital signal processing.*

Vertical Type DSP Based Dynamic Balancing Machines

Model : FVBM



*Perfectly centered for
high-speed rotation.*

Automatic Vertical Balancing Machine: Key Features

The drilling head, controlled by a PLC, automatically fixes unbalance by creating precise holes that are 6 mm wide.

- 1. Precision Engineering:** Features a high-speed 150 MHz DSP processor, A.C. Panasonic servo motors, and a Delta PLC for reliable measurement and spindle indexing.
- 2. Operational Integrity:** Pneumatic clamping supports jobs externally during drilling to protect spindle bearings.
- 3. Efficiency:** Delivers 35 pieces/hour with permanent calibration, auto-ranging, and ergonomic design.
- 4. Versatility:** Ideal for disc-type components (flywheels/impellers) across repair or mass-production environments.

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IMPACT TESTING MACHINES

Astm & Iso Pendulum Impact Testing Machines

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



*Forged for Durability.
Calibrated for Discovery.*

- Standards Compliance:** Conforms to ASTM E-23-2007 or ISO 148-2:2008 specifications.
- Versatile Design:** Suitable for diverse materials; features identical builds with interchangeable strikers for ASTM/ISO compatibility.
- Operational Efficiency:** Rigid single-stand frame minimizes energy loss while enabling rapid, accurate testing.
- Durability & Safety:** Includes heat-treated alloy steel components and integrated safety guards.
- Technical Specs:** 300 J capacity via 140° pendulum drop with spring braking; offers 2 J (analogue) or 0.5 J (digital) resolution.

Analogue /Digital Pendulum Impact Testing Machines

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

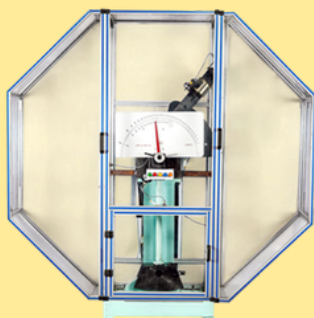
- Multifunctional Testing:** Supports both Charpy and Izod impact tests using a precise pendulum principle.
- Structural Integrity:** A rigid frame minimises energy absorption, ensuring high-level accuracy across all tests.
- Premium Build:** Critical wear components are engineered from heat-treated special alloy steels for enhanced longevity.
- Safety & Compliance:** Features integrated safety guards and conforms to ASTM, IS, and BS/EN standards.
- Technical Performance:** Delivers 300 J (Charpy) and 170 J (Izod) energy with 140° and 90° drop angles, respectively.
- Dual Readouts:** Offers analogue (2 J least count) or digital (0.5 J resolution) displays.



*Measuring toughness
from dial to digital.*

Motorised Impact Testing Machines

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



*Maximum Force.
Bulletproof Protection*

- Automated Operation:** Features push-button controls for fully automatic Charpy testing, ensuring easy specimen handling and high repeatability.
- Standards Compliance:** ASTM models meet E23-2007; ISO variants comply with BS EN ISO 148-2:2008 specifications.
- Precision Engineering:** A rigid frame minimises energy loss, while identical designs across variants ensure consistency.
- Enhanced Safety:** Equipped with safety interlocks and an aluminium enclosure featuring a bulletproof cover.
- Technical Specs:** Provides 300 J initial potential energy with precise analogue or digital displays.

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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

- 1.Versatile Testing:** Evaluates all metal and alloy hardness across round, flat, or irregular profiles.
- 2.Advanced Interface:** Semi-automatic motorised system featuring a microprocessor-based touchscreen for digital control.
- 3.Precision Control:** Adjustable dwell times for major/minor loads and automatic weight selection via thumb-wheel.
- 4.High Accuracy:** Features linear bearing-guided indenters for small diameters and auto-cylindrical correction.
- 5.Data & Compliance:** Displays Vickers, Brinell, and tensile strength conversions; RS-232 interface provided.
- 6.Standardised:** Conforms to IS/BS/ASTM; includes Brinell loads and a 25X microscope.



*One Machine.
Infinite Capability.*

Digital Rockwell / Rockwell Cum Brinell/ Rockwell Superficial Hardness Tester

Model : TRS-DN, TRB-250-DN, TSM-DN



*Automated Sophistication
for the Modern Lab*

- 1.Universal Application:** Tests all metal and alloy types, including flat, round, and irregular geometries.
- 2.Intelligent Operation:** Motorised semi-automatic system featuring a large LCD microprocessor panel with automatic, semi-automatic, and manual modes.
- 3.Precision Engineering:** Thumb-wheel weight selection, auto-cylindrical correction, and linear bearing-guided indenters for small-diameter accuracy.
- 4.Readout & Resolution:** Delivers 0.1 HR (Rockwell) and 0.2 HR(Superficial) least counts; includes Brinell loads and a 25x microscope.
- 5.Global Compliance:** Fully conforms to IS, BSEN-ISO, and ASTM standards.

Standard-Rockwell/ Rockwell Cum Brinell/Rockwell Superficial Hardness Testing Machines.

Model : MRS, MSM,MRB-250

Rockwell-cum-Brinell Hardness Tester

- 1.Broad Versatility:** Measures all metal and alloy hardness across round, flat, or irregular profiles.
- 2.Precision Operation:** Features automatic weight selection and a convenient zero-setting dial gauge.
- 3.Dual-Method Testing:** Performs Rockwell (HRA, HRB, HRC) and Rockwell Superficial (HRN, HRT) for thin sheets with loads up to 150 kgf.
- 4.Brinell Integration:** Suitable for non-ferrous materials using 187.5 and 250 kgf loads.
- 5.Standardised:** The machines strictly conform to IS:1586, IS:2281, BS:240, and ASTM-E-10 global standards.



*Automatic Selection.
Absolute Compliance.*

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STANDALONE MACHINES

Computerised Tensile Testing Machines

Model : TKG - EC

- 1. Intelligent Software:** User-friendly, menu-driven interface featuring automatic calculations, data capture, retrieval, and graphical display with printing.
- 2. Measurement Precision:** High-accuracy load cell system supporting multiple cells for expanded ranges, with resolution up to 20,000 counts and 0.1 mm displacement.
- 3. Safety & Control:** Integrated overload/over-travel protection with tare load and elongation reset capabilities.
- 4. Real-Time Monitoring:** Live display of load, elongation, and graphs in selectable units; optional extensometer for proof stress.
- 5. Specifications:** Capacities from 200 N to 50 kN with $\pm 1\%$ accuracy, conforming to IS/BS standards.



*Extreme Range.
Zero Margin for Error.*

Digital Fatigue Testing Machines

Model : MFT-8-D



*Measuring the endurance
of innovation.*

- 1. Compact Design:** Light, portable table model requiring no foundation; ideal for laboratories and industrial S-N diagram generation.
- 2. Operating Principle:** Rotating beam type applying reversed bending loads via a lever system for easy variation.
- 3. Performance:** Motor-driven rotation at 4200 rpm ensures consistent cyclic stress on standard 8 mm specimens held in specialised holders.
- 4. Safety & Monitoring:** The digital counter records total failure revolutions with an interlocking system that automatically stops the motor.
- 5. Standardised:** Conforms to IS 5075-1969 for uniform bending moment accuracy.

Digital Torsion Testing Machines

Model : MTT-E

- 1. Application:** Specifically designed for conducting torsion and twist tests on metal rods and flat specimens.
- 2. Precision Measurement:** Utilises a high-resolution torque cell and a rotary encoder for precise twist angle measurement.
- 3. Performance:** Torque is applied via a geared motor and gearbox, ensuring accuracy of $\pm 1\%$ from 4% to 100% capacity.
- 4. Digital Interface:** Features an LCD display on the Data Acquisition System (DAS) for real-time monitoring; supports PC connectivity.
- 5. Design:** Optimised for a single, high-resolution torque range.



*Precision analysis of
rotational stress.*

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Erichsen Cupping Testing Machines

Model: MET-20



The ultimate test for sheet metal ductility.

1. **Formability Assessment:** Specifically designed to evaluate the cupping quality, deformation characteristics, and formability of metal sheets and strips.
2. **Surface Evaluation:** Enables comparative testing for paint and varnish coatings to assess adhesion strength, elasticity, and porosity.
3. **Specifications:** Accommodates standard 70 × 90 mm specimens with 2 mm thickness capacity (upgradable to 3 mm).
4. **Compliance & Reliability:** Engineered in strict adherence to IS: 10175-1982 standards, ensuring consistent and repeatable results for industrial quality control.

Bend and Rebend Testing Machines

Model - FBR-100 kN

1. **Application:** Specialising in testing carbon steel bars up to 40 mm in diameter for reinforced concrete applications.
2. **Robust Build:** Features a heavy-duty C-frame construction with efficient hydraulic operation and a 100 kN load capacity.
3. **Versatile Components:** Includes 100 mm support rollers (400 mm spacing) and interchangeable formers ranging from 6 mm to 400 mm.
4. **Integrated Tools:** Supplied with comprehensive re-bending tools and hinged grilled front safety doors for operator protection.
5. **Standards:** Ensures testing accuracy in strict accordance with BS 4449.



*Robust. Reliable.
Reinforced*

Drop Weight Impact Testing Machines

Model - FDW-1650 J



Global benchmarks in fracture toughness

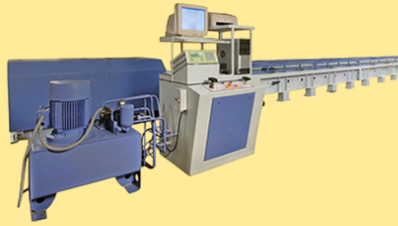
1. **Standardised Testing:** Specifically designed for fracture toughness evaluations in strict accordance with the ASTM E-208 standard.
2. **Energy Versatility:** Features eight selectable energy levels ranging from 350 J to 1650 J for comprehensive material analysis.
3. **Technical Specifications:** Utilises a 136 kg drop weight with a maximum adjustable fall height of 1237 mm to meet precise energy requirements.
4. **Precision Components:** Equipped with a 25.4 mm radius striker tip featuring a minimum hardness of 50 HRC.
5. **Automated Lifting:** Includes a motorised striker lifting mechanism with a speed of approximately 1.2 m/min.

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



Computerised & Analogue versions- Horizontal Chain & Rope Testing Machines

Model : FCR, FCR E / FCR-EC



Define the Breaking Point with Digital Precision

1. **Versatile Application:** Designed for proof and destructive tensile testing of chains, wire ropes, and long-form specimens.
2. **Operational Control:** Robust frame featuring simple controls, infinitely variable straining speeds, and essential safety devices.
3. **Monitoring & Documentation:** Includes a continuous-roll autographic recorder for load-elongation graphs; available in analogue, digital, or computerised models.
4. **Customisation:** Optional extended beds, ram strokes, special grips, and load stabilisers are available.
5. **Technical Specs:** Capacity range of 100 kN to 3000 kN with $\pm 1\%$ accuracy, conforming to IS/BS standards.

Micro Vickers Hardness Testers

Model : FMV-1



High-precision analysis on a microscopic scale.

Ideal for delicate components like thin sheets, foils, surgical needles, and surface coatings (anodised or case-hardened).

1. **Technical Performance:** Features a 136° diamond indenter with adjustable test loads from 10 g to 1000 g and magnifications up to 625X.
2. **Measurement & Accuracy:** Equipped with an X-Y stage (0.01 mm least count) and $\pm 1\%$ accuracy conforming to IS:1754 standards.
3. **Advanced Features:** The computerised model includes a CCD camera and software for auto-display/printing. Optional Knoop indenter available.

Manual & Motorised Charpy & Izod Notch Broaching Machines

Manual Notch Broaching Machine (Model: BMF)

1. **Precision Cutting:** Robustly constructed for accurate V and U notch preparation using a specialised multi-toothed broach.
2. **Manual Control:** Features a rotating hand wheel for controlled feed, ensuring consistent results in a single, rapid pass.
3. **Secure Handling:** Equipped with a simple, effective hand vice for stable specimen holding during operation.
4. **Adjustable Tooling:** Includes end stops and adjustable tools to maintain exact notch depth and positioning.
5. **Efficiency:** A cost-effective solution providing reliability and repeatability in compliance with testing standards.



Consistency in Every Groove

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



Motorised Notch Broaching Machine **(Model: Bmf-M)**



*One Button. One Pass.
Perfect Notch.*

- 1.Precision Operation:** Motorised design featuring a multi-toothed broach for accurate V and U notch cutting in a single, rapid pass.
- 2.Advanced Engineering:** Utilises a ball screw mechanism, LM bush-guided hardened rods, and micrometre fine feed for smooth, precise action.
- 3.User-Friendly:** Simple push-button operation eliminates manual effort, ensuring high repeatability and excellent notch finish.
- 4.Safety & Maintenance:** Equipped with a broach guard and a convenient front-door design for easy maintenance access.
- 5.Versatility:** Suitable for both ferrous and non-ferrous specimens with easy broach handling.

Jominy Test Fixtures **Model : MJOM-25**

- 1.Manufacturing & Compliance:** Produced in Sangli, India, these fixtures adhere to IS 3848 – 1981 and ASTM A 255 standards for determining steel hardenability.
- 2.Test Procedure:** A normalised specimen (25 mm X 100 mm) is heated to austenitising temperature, then immediately end-quenched with a room-temperature water jet.
- 3.Preparation:** Precision-ground longitudinal flats ensure correct fixture positioning and repeatable hardness readings.
- 4.Analysis:** Hardness is measured at fixed intervals; flatter resulting data curves indicate superior material hardenability.



*Standardized Science.
Unrivaled Accuracy.*

End Quench Test Apparatus **Model : MEQ-25**



*Smart Systems.
Uncompromising Standards.*

- 1.Standards Compliance:** Specifically designed for determining steel hardenability in accordance with IS 3848–1981 and ASTM A255.
- 2.Testing Process:** Involves controlled heating of standard specimens followed by precise water quenching at one end and longitudinal hardness analysis.
- 3.Automated Precision:** Features an automatic centring support system to align the specimen perfectly with the water jet.
- 4.Integrated System:** Equipped with a quick-action valve for instantaneous impingement, a dedicated pump/tank assembly for consistent water head, and essential safety controls.

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



Portable Dynamic Hardness Testing Machines

Model : DHT-6

- 1. Versatile Design:** A sleek, briefcase-housed unit optimised for low-cost testing of large, heavy, or installed components in confined spaces.
- 2. Dynamic Conversion:** Instantaneously converts "D-values" to HV, HRB, HRC, HB, and UTS across 30 distinct scales using intuitive arrow keys.
- 3. User Interface:** Microcontroller-driven 16x2 LCD displays material and scale data; powered efficiently by two standard pencil cells.
- 4. Advanced Connectivity:** Supports multiple probes (D, G, SH, EX, C), 100-reading memory, RS-232 interface, auto-calibration, and printer integration.



*The lab is now
wherever you stand.*

Digital Brinell Microscopes

Model : BIMS



*Take the "human"
out of the error.*

- 1. Eliminates Operator Bias:** Virtually removes human influence to ensure consistent, reliable, and error-free indentation measurements.
- 2. Standardised Precision:** Minimises manual variation between operators, providing repeatable accuracy across all tests.
- 3. Intuitive Workflow:** Features a simple "Place and Click" operation; just centre the scan head and select "Auto".
- 4. Automated Data Management:** Delivers 0.01 mm resolution, automatically calculates Brinell values, and stores results according to specific batch parameters for streamlined reporting.

Every FSA machine is curated, installed, and sustained by Testwin to ensure a lifetime of peak performance and uncompromising standards.

*Ancient wisdom meets
modern engineering*



TESTWIN

METALLURGICAL EQUIPMENT



Precision Redefined.



Profile Projector

1. **Compact Design:** Lightweight tabletop model featuring a noiseless cooling fan and secure, protective packaging.
2. **Precision Optics:** 360° graduated 200/300 mm screen with 1-minute vernier and <0.15% distortion.
3. **Dual Illumination:** High-output 100W halogen transmitted light and dual 10W LED incident lighting.
4. **Engineered Stage:** 150x150 mm cross-travel stage with 50x50 mm X-Y movement and 0.005 mm LC micrometers.
5. **Flexible Magnification:** Standard 10x lens (optional 20x–100x) with available digital readout integration for enhanced data tracking.



*Optical Integrity.
Unrivalled Detail.*

Inverted Metallurgical Microscopes with Camera **(with Image Analysis Software)**



*Optical Sophistication.
Industrial Depth.*

Experience precision material analysis with this professional-grade system, featuring:

1. **Optical Excellence:** Trinocular head with hard-coated prisms and semi-plan achromatic objectives (5x, 10x, 20x, 45x).
2. **Advanced Imaging:** WF 10x eyepieces and green/brown filters for specialized sample study.
3. **Precision Mechanics:** Quadruple ball-bearing nosepiece and double-layered fine focusing.
4. **Ergonomic Design:** Graduated mechanical stage with low-positioned coaxial knobs.
5. **Powerful Illumination:** Bright 12V, 50W halogen light supported by solid-state power circuitry for consistent, high-detail viewing.

Polishing Machines



Elite Stability. Technical Excellence.

1. **High-Performance Drive:** Features a silent, ¼ HP high-torque DC motor for smooth, jerk-free, and noise-free laboratory operation.
2. **Precision Control:** Equipped with an intuitive digital electronic controller and display, offering a variable speed range from 50 to 1000 RPM.
3. **Efficient Design:** Compact tabletop system with standard 8-inch double discs; plug-and-play setup requires no professional installation.
4. **Reliable Application:** Ideal for metallurgical preparation requiring consistent stability and controlled speed for high-precision material analysis.

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



Specimen Cutter Machine



Meet your lab's new workhorse.

1. **Versatile Analysis:** Expertly cuts metallic and non-metallic specimens for metallographic and petrographic study.
2. **Thermal Protection:** Integrated cooling preserves material microstructure by preventing overheating during operation.
3. **High Performance:** Provides 2.2 kW power at 2800 rpm, managing diameters up to 80 mm.
4. **Technical Specs:** Features manual Z-axis control using 250 mm wheels on a 380V three-phase supply.
5. **Robust Design:** Compact, 82 kg user-friendly unit (690 × 740 × 670 mm) tailored for labs and factories.

Spectro Polisher

1. **Design:** Compact, robust build using advanced technology; features rust-proof, anti-fungal coating and easy paper replacement.
2. **Safety & Dust Control:** Integrated collector with disposable bags and rear-mounted pipeline; includes 180° disc protection for hazardous particle management.
3. **Performance:** Noiseless operation with a 2 HP (2800 rpm) main motor and 1 HP (1400 rpm) air-gripping motor.
4. **Mechanics:** Steel disc plate with air-gripping/locking system; powered via 440/460V 3-phase AC with L&T starters.
5. **Value:** Customisable, affordable professional solution.



The quietest powerhouse in your lab.

Belt Grinding Machine

Product Summary: 220V Manual Belt Grinder

1. **Operation:** Manual, 220V single-phase power for controlled, precision processing.
2. **Abrasives:** Features a 100 × 915 mm endless belt for consistent, high-efficiency grinding.
3. **Stability:** Balanced pulleys ensure smooth, vibration-free performance.
4. **Power:** 1/2 HP polishing motor optimised for professional surface finishing.
5. **Versatility:** Ideal for metallurgical labs, forging, casting, fasteners, steel, and auto-parts industries.
6. **Design:** A compact, reliable, and efficient solution for comprehensive material preparation and surface refinement.



No fluff. Just a flawless finish.

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

TESTWIN

CIVIL ENGINEERING EQUIPMENT



Innovation In Strength.



Compression Testing Machine



Built to Defy. Designed to Endure

1. **Structural Integrity:** Engineered with a robust channel-type construction to provide maximum stability and enhanced structural strength during high-pressure tests.
2. **Versatile Range:** Features a 0–200 tonne capacity, suitable for diverse industrial compression applications.
3. **Dual Testing:** Equipped with a flexure test attachment, extending functionality beyond standard compression.
4. **Precision & Reliability:** Handwheel-based speed control ensures precise load rates, while a manual hand pumping provision guarantees continued operation during power failures.



*The Blueprint for
Better Concrete*

Slump Cone Test Apparatus

1. **Standardised Compliance:** Fully conforms to IS: 7320, ensuring high-level reliability in material evaluation.
2. **Target Application:** Optimised for testing concrete workability with aggregate sizes up to 38 mm.
3. **Robust Assembly:** Features a slump cone with foot pieces, secured to a stable base via heavy-duty wing bolts.
4. **Dual-Function Handle:** Includes a swivel carrying handle that doubles as a vertical datum for precise measurement.
5. **Complete Kit:** Supplied with a graduated tamping rod for both specimen compaction and accurate slump assessment.

Core Hardness Tester

1. **Precision Measurement:** Handheld scratch-type tester featuring a dial indicator with a specialised tip for accurate core hardness.
2. **Intuitive Operation:** Provides direct 0–100 CHN readings (1 CHN least count) via a simple longitudinal pull across flat surfaces.
3. **Total Portability:** Compact, 0.9 kg design requiring no electrical or compressed air supply; operates between 0 and 50°C.
4. **Compliance & Trust:** Fully BIS compliant and traceable to NABL standards, supplied with a calibration certificate and essential accessories.



*The Science of
Certainty.*

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



Mould Hardness Tester



*Hardness Measured,
Confidence Cast*

This handheld VMHB tester measures green sand mould hardness (0-100 MHN) via a specialised dial indicator tip.

1. **Specifications:** Features a 1 MHN least count, traceable to NABL/BIS standards.
2. **Portability:** Compact (190 X 125 X 40mm) and lightweight (0.5 kg), requiring no electrical or compressed air supply.
3. **Operation:** Manual pressure-based testing effective within 0-50°C.
4. **Design:** Factory-default colour; arrives in 230 X 230 X 130 mm packaging (gross weight 1.0 kg). No external specimens required.

Rapid Moisture Meter

Streamline on-site analysis with this rugged, manual testing solution:

1. **Precision Measurement:** Direct 0-10% moisture analysis in sand with a 0.1% least count.
2. **Utility-Free:** Uses a chemical reaction method; requires no electricity or compressed air.
3. **Durable Build:** Compact (350 X 300 X 200 mm, 10 kg) for environments from 0-50°C.
4. **Complete Kit:** Includes accessories, manual, and calibration certificate, all secured in a professional wooden case.



Precision Without a Plug.

Sieve Test Apparatus



*The Art of
the Unbroken Frame.*

1. **High-Precision Grading:** Designed for accurate particle size separation, sieve analysis, and Grain Fineness Number (GFN) determination in foundry sand.
2. **Seamless Engineering:** Features monolithic construction without welding, soldering, or filler materials to ensure contamination-free testing.
3. **Premium Build:** Manufactured with a high-quality stainless steel frame and mesh for superior corrosion resistance and durability.
4. **Standardised Specs:** 8-inch (203 mm) diameter in a full-height configuration for universal compatibility.
5. **Versatile Application:** Ideal for grading and quality control in labs and foundry environments.

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



Cube Mould

Designed for high-accuracy concrete testing, these cast iron moulds ensure exceptional durability and dimensional stability. Key features include the following:

1. **Compliance:** Built per IS 516 standards, ideal for vibrating machine applications.
2. **Specifications:** Includes a specialised 2.78 in (7.06 cm) street cube mould with a secure base plate.
3. **Versatility:** Available in 5 cm, 10 cm, and 15 cm sizes for diverse laboratory and field needs.
4. **Quality:** Precision-engineered construction guarantees reliable specimen preparation and consistent testing performance.



The Form of Excellence

Concrete Test Hammer



*Strength Decoded.
Structure Preserved.*

Concrete Rebound Test Hammer (NDT)

1. This non-destructive testing solution assesses the quality of finished structures without compromising their integrity. Key advantages include the following:
2. **Mechanism:** Measures the rebound number based on surface mortar strength, providing a reliable indicator of overall compressive strength.
3. **Precision:** Delivers rapid, on-site results with a typical accuracy within $\pm 15\%$ of actual values.

4. **Operational Efficiency:** Enables quick structural evaluations while leaving specimens intact, ensuring curing continues for seamless follow-up monitoring.
5. **Versatility:** A dependable tool for non-invasive quality checks across both controlled laboratory and demanding field environments.



The Silent Guardian of Structural Truth

CBR Test Apparatus

This comprehensive assembly ensures accurate soil-bearing capacity evaluation through a robust, high-capacity design:

1. **Load Application:** A 50-tonne hydraulic jack with a separate pump, pressure gauge, and ball-and-socket arrangement for perfect alignment.
2. **Bearing Plates:** Includes 25 mm thick plates (30, 45, 60, and 75 cm diameters) in plain or chequered finishes.
3. **Measurement:** Bridge support with dial gauge clamps and a 0.01 mm least count gauge for high-resolution readings.
4. **Stability:** Complete with a load truss, four soil anchors, and versatile working collars.



*Force Aligned.
Stability Defined.*

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



Aggregate Impact Tester



The Science of Resistance

Engineered for the rigorous assessment of aggregate toughness and impact resistance, this apparatus provides a definitive measure of material quality:

- 1. Standardised Testing:** Fully compliant with IS: 2386 (Part IV) protocols for determining the Aggregate Impact Value.
- 2. Robust Framework:** Features a heavy-duty base and reinforced support columns, providing the rigid stability required for high-impact operations.
- 3. Mechanical Control:** Equipped with a quick-release trigger mechanism to ensure a consistent, effective free fall of the hammer every time.
- 4. Reliable Performance:** Delivers exceptional repeatability and accuracy, making it an essential tool for authoritative laboratory evaluation of structural aggregates.

Thickness Gauge,

Designed for precise particle shape evaluation, this apparatus is essential for identifying thin aggregate particles that can compromise structural integrity:

- 1. Standard Compliance:** Fully conforms to IS: 2386 protocols for determining the flakiness index.
- 2. Precision Engineering:** Features a rigid, durable panel with accurately machined slots cut to standardised lengths and widths.
- 3. Operational Simplicity:** Designed for manual use, making it equally effective for controlled laboratory environments and rugged field testing.
- 4. Long-Term Reliability:** The robust construction ensures exceptional durability and measurement accuracy, providing consistent results throughout its long service life.



Simplicity Meets Structural Integrity

Length Gauge

The Silent Arbiters of Quality



This specialised equipment ensures comprehensive material evaluation according to rigid standards:

- 1. Aggregate Analysis:** Conforms to IS: 2386 for determining elongation index, featuring eight precisely spaced steel pins on a steel plate.
- 2. Design:** Mounted on a durable hardwood base, the assembly is engineered to accurately identify elongated particles by shape.
- 3. Tile Testing:** Includes a Tile Flexure Strength Tester per IS 654-1962 to determine the breaking load of clay roofing tiles with absolute certainty.

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



Universal Strength Machine (Hydraulic)

This Universal Sand Strength Machine is a versatile hydraulic unit designed to evaluate the mechanical properties of foundry sands. Key Capabilities

1. **Comprehensive Testing:** Measures compression, shear, tensile, transverse, and deformation strengths.
2. **Dual-Gauge Precision:** Features high/low pressure gauges with compression pads for varied ranges.
 - a. **Low Gauge:** Compression (0–1600 g/cm²), shear (0–1300 g/cm²), tensile (0–6 kg/cm²), and transverse (0–60 kg/cm²).
 - b. **High Gauge:** Compression (0–13 kg/cm²), shear (0–10 kg/cm²), tensile (0–50 kg/cm²), and transverse (0–500 kg/cm²).
3. **Extended Range:** Supports VUH testing (20–200 kg/cm²).
4. **Broad Compatibility:** Ideal for green, resin, no-bake, oil, CO₂, and hot/cold box sands.



*Beyond Compression:
Total Sand Intelligence.*

Digital Permeability Meter

*Less Human Error,
More Scientific Truth.*



This research-grade digital permeability meter provides precise sand testing through a combination of traditional reliability and modern electronics.

Core Features

1. **Methodology:** Utilises the proven dead-weight method integrated with high-speed sampling electronics for superior accuracy.
2. **Automation:** Delivers precise readings with minimal user intervention, ideal for routine and advanced research.
3. **Sand Compatibility:** Suitable for green sand, cold box, no-bake, resin-coated (hot), and CO₂ systems.
4. **Versatility:** Supports raw sand analysis and both basic and advanced foundry equipment applications.

AFS Calculator, Sand Testing

This AFS calculator streamlines the determination of the Grain Fineness Number (GFN), ensuring consistent sand system optimisation.

Core Advantages

1. **Quality Control:** Provides accurate evaluation of sand particle size distribution for enhanced casting performance.
2. **Operational Efficiency:** Supports standard AFS sieve analysis with improved speed, reliability, and reduced manual calculation errors.
3. **Process Consistency:** Minimises operator dependency to maintain uniform moulding sand properties.
4. **Versatile Application:** Designed for both advanced laboratory research and routine shop-floor testing and process control



*Defining the Texture of
Foundry Excellence*

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



Hot Plate

This Laboratory Hot Plate is a compact, high-efficiency heating solution specifically engineered for controlled laboratory environments.

Technical Specifications

1. **Precision Control:** Features a three-heat rotary switch system for accurate and adjustable temperature regulation.
2. **Ready-to-Use:** Supplied fully equipped with a plug pin and cord for immediate integration.
3. **Electrical Compatibility:** Optimised for standard operation on 220V A.C. mains.
4. **Space-Saving Design:** Boasts a compact 20 cm diameter footprint, ideal for crowded workstations without sacrificing performance.



*Where Bench Space
Meets Peak Performance.*

Ductility Testing Machine

This Ductility Testing Apparatus is precision-engineered for evaluating asphalt, cut bitumen, and blown bitumen properties.

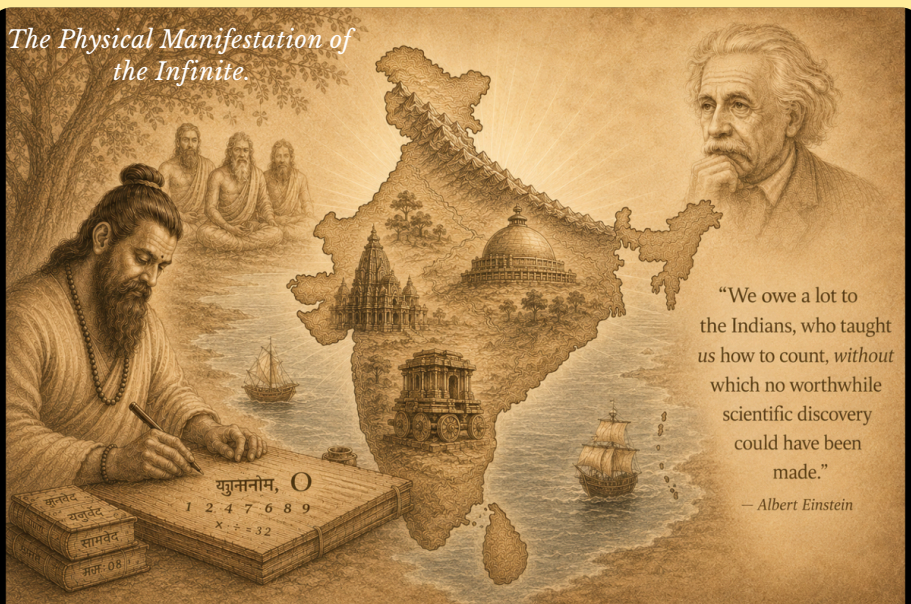
Core Specifications

1. **Thermal Control:** Features a thermostatically controlled bath equipped with convenient inlet and outlet taps.
2. **Testing Precision:** Fixed and movable brackets keep specimens submerged; includes dual pull rates of 10 and 50 mm/min.
3. **Safety Mechanism:** Integrated clutch instantly stops movement upon specimen rupture.
4. **Standard Package:** Operates on 230V, 50Hz A.C.; includes three moulds and plates (thermometer excluded).



*Stretching the Boundaries of
Material Science.*

The Physical Manifestation of the Infinite.



"We owe a lot to the Indians, who taught us how to count, *without* which no worthwhile scientific discovery could have been made."

— Albert Einstein

TESTWIN

LABORATORY EQUIPMENT



Defined by Excellence



Liquid Sub Zero Bath

Frozen Precision. PID Perfection



This ultra-low temperature freezer features a robust angle iron framework with a stainless steel inner chamber and powder-coated mild steel exterior.

Technical Features

1. **Refrigeration:** Dual hermetically sealed compressors in a cascade system with CFC-free refrigerant and copper coils.
2. **Thermal Efficiency:** Polyurethane insulation minimises heat loss.
3. **Precision Control:** Achieves temperatures down to -60°C via a dual-setting PID microprocessor digital controller.
4. **Power:** Designed for 220–230V, single-phase AC mains operation.

Front Open Dry Cooling Chamber

Hermetic Heart. Stainless Soul.

This compact refrigerated chamber features a high-quality stainless steel interior for corrosion resistance and a robust, powder-coated mild steel exterior for long-term durability.

Core Specifications

1. **Cooling System:** Efficient air-cooled design powered by a hermetically sealed compressor, cooling coil, and condenser.
2. **Smart Regulation:** Temperature is accurately maintained via an integrated indicator-cum-controller and sensor system.
3. **Design:** Optimised for compact laboratory use with a $200 \times 200 \times 250$ mm chamber footprint.
4. **Power:** Fully compatible with standard 220/230V AC supplies.



Muffle Furnaces

Compact Fire. Infinite Reliability.



High-Temperature Industrial Furnace

1. **Thermal Range:** Achieves and maintains a maximum working temperature of 1200°C .
2. **Precision Control:** Managed by a PID digital temperature indicator cum controller with a high-quality thermocouple.
3. **Robust Build:** Constructed from thick mild steel with a durable enamel finish and ceramic blanket insulation.
4. **Operational Safety:** Features dual neon light indicator switches for real-time status monitoring.
5. **Ready-to-Use:** Complete with trays, wire, and plug; operates on standard 220/230V AC power.

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



Humidity Chambers

Micro-Climates, Macro-Results

1. **Construction:** Features a double-walled design with a stainless steel interior, powder-coated mild steel exterior, and swivel casters for mobility.
2. **Door:** Includes an airtight, unbreakable, temperature-resistant polycarbonate door for secure visual monitoring.
3. **Humidity:** Utilizes a non-condensing steam injection system with a standby heater (220V AC).
4. **Precision:** PID digital control maintains 10°C–50°C ($\pm 1^\circ\text{C}$) and 40%–95% RH ($\pm 2\text{--}3\%$).
5. **Safety & Compliance:** Equipped with automatic cut-offs for temperature, water levels, and overloads; meets all industrial testing standards.



Hot Air Oven

The Science of the Perfect Dry.



1. **Premium Construction:** Built with a double-walled design featuring a stainless steel interior, powder-coated mild steel (MS) exterior, and high-density insulation for optimised thermal efficiency.
2. **Precision Performance:** Maintains temperatures between 250°C and 300°C with an accuracy of $\pm 1^\circ\text{C}$ via PID digital control and forced air circulation for uniform heat distribution.
3. **Functional Design:** Includes adjustable perforated trays for versatile loading and operates on a standard 220/230V AC power supply.

4. **Industrial Applications:** Specifically engineered for precision drying, sterilisation, and various industrial heating processes.
5. **Enhanced Safety:** Features integrated electrical protection and an over-temperature cut-off system for secure operations.

Here is a concise professional summary of the Digital Water Bath specifications:

1. **Construction:** Durable high-grade stainless steel inner chamber with a powder-coated mild steel exterior for long-lasting corrosion resistance.
2. **Performance:** Maintains precision temperatures from 32°C to 80°C (89.6°F–176°F) via advanced digital control.
3. **Application:** Ideal for uniform softening of waxes and compound materials in industrial and laboratory settings.
4. **Accuracy:** Engineered for consistent thermal regulation, ensuring reliable results for temperature-sensitive processes.
5. **Design:** A robust, digitally-driven unit optimised for efficiency and structural strength.

Water Bath
The Fluidity of Precision.



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



Weighing Balances

Here is a concise professional summary of the weighing balance specifications:

- 1.**Function:** High-precision instruments engineered for the accurate determination of weight or mass.
- 2.**Versatility:** Available in diverse sizes, designs, and capacities to meet specific application requirements.
- 3.**Performance:** Provides reliable, consistent measurement results across various environmental conditions.
- 4.**Research & Lab Use:** Supports critical scientific analysis and research activities through high-sensitivity measurement.
- 5.**Culinary & Pharmacy Use:** Ensures strict portion control in commercial kitchens and exact pharmaceutical formulations for medicine preparation.
- 6.**Utility:** An essential tool for ensuring accuracy in both industrial and professional settings.



The Architecture of Accuracy.

“We invite you to witness our engineering excellence firsthand. Request a bespoke technical demonstration or consult with our specialist Service Engineering Team to elevate your operational standards”.



Engineered for Performance. Designed for Trust.

Testwin delivers **comprehensive capabilities**, from supplying physical testing, metallurgical, laboratory, and soil testing equipment to building **lifetime technical partnerships**.

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

As a **women-led MSME**, we offer **customized solutions**, FSA-supported R&D, and a **reliable service network** ensuring **sustained compliance**, **precision**, and **long-term technical excellence**.



Testing
Equipment



Calibration &
Compliance



Installation
& Training



R&D
Support



Service
Network



Service
Network



Serving Eastern &
North-East India

West Bengal • Assam • Bihar
Jharkhand • Odisha • Northeast

TESTWIN

APPARATUS MARKETING SERVICE PRIVATE LIMITED



Driven by Precision. Powered by Trust.

Testwin proudly partners with Fine Spavy Associates (FSA), a globally recognized and trusted manufacturer of material testing machines since 1977, known for quality, durability, and international presence.

This collaboration combines FSA's proven engineering credibility with Testwin's expertise to deliver advanced solutions, seamless installation, and dependable long-term service across diverse industrial applications.



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TESTWIN APPARATUS MARKETING SERVICE PRIVATE LIMITED