



Metals, Metallurgical & Material Testing Solutions



IZA ANALYTICS IS A GROUP COMPANY OF VAS SPECTROMETERS

Company Profile - IZA ANALYTICS

IZA Analytics is a growing organization having technocrat, Scientists and professionally qualified marketing & service personnel on board.

We strive for a long-term relationship with our partners, based on trust, integrity and clear definition of mutual expectations. Together with our partner, our objectives is to establish leadership in each application area, provide cost-effective solutions and have comprehensive territorial coverage.

Our Product Profile incorporates Indigenous developed and manufactured Professional Analytical and Industrial equipments besides world-renowned manufacturers, Our Eight Business Groups provide a range of Latest State-of-the-art High Technology products and value added services integrated with turnkey solutions, catering to most industry segments.

Having diversified experience in building solutions around the represented products, we have helped set up a market base in the country for many Global Organizations.

Our Most important asset is the Intellectual prowess of our employees, keeping pace with the advancements in the field of Instrumentation. We believe in constantly upgrading our knowledge and skills to innovate and add values to our services.

Moreover, We offer value addition in the form of consultative & conceptual selling, application identification and configuring the right solution for the customer coupled with pre-installation support, installation and commission and reliable after-sales service.

UNIVERSAL TESTING MACHINE



UNIVERSAL TESTING MACHINE

IZA Electronic/Computerized Universal Testing Machines are designed for testing metals and other materials under tension, compression bending, transverse and shear loads.

Available in 10, 20, 40, 60 & 100 Ton Capacity.
Loading Accuracy as high as 1%.

Every Machine is calibrated over each of its measuring ranges in accordance with the procedure laid down in British Standards. 1610: Part 1: 1992 & IS: 1828: Part 1: 1991 & comply with Grade A of these standards.



Detailed Brochure of Individual Models comprising of technical specs of Hardware & Software is available on request.

COMPUTERISED SERVO CONTROL UNIVERSAL TESTING MACHINE



COMPUTERISED SERVO CONTROL UTM

IZA Computerized Servo Controlled Universal Testing Machines are designed for testing metals and other materials under tension, compression bending, transverse and shear loads.

Available in 10, 20, 40, 60, 100, 200 & 300 Ton Capacity.
Loading Accuracy as high as 1%.

Every Machine is calibrated over each of its measuring ranges in accordance with the procedure laid down in British Standards. 1610: Part 1: 1992 & IS: 1828: Part 1: 1991 & comply with Grade A of these standards.



Detailed Brochure of Individual Models comprising of technical specs of Hardware & Software is available on request.



Horizontal Tensile Testing ranging from 100kN to 3000 kN are available on request

ROCKWELL HARDNESS TESTING MACHINE



ROCKWELL HARDNESS TESTING MACHINE

IZA Rockwell Hardness Tester is designed for measuring hardness of metals & alloys of all kinds, hard or soft, round or flat or irregular in shapes and ideally suited for labs, Tool rooms, Heat Treatment Shops, R&D Deptts, Inspection deptts, Foundries & educations institutions.

Rockwell Test Minor load is 10kgf & major loads are 60, 100, 150 kgf. Automatic weight selection with Zero setting.

Rockwell Hardness Scales eg, HRA, HRB & HRC etc. by using different type of indenters (Diamond/Ball). Standard & Variable Test Height X Throat

Available in Standard, (Manual), Digital, Computerized, Rockwell-cum-Brinell and Rockwell Superficial Configurations & Motorized versions. Strictly Conforms to IS:1586-2000.



Detailed Brochure of Individual Models comprising of technical specs of Hardware & Software is available on request.

TENSILE TESTING MACHINE



TENSILE TESTING MACHINE

IZA Tensile Testing Machines are suitable & indispensable for studying mechanical behavior of various materials like Iron & Metals, Rubbers, Plastics, Ceramics, Fabrics, Composites, Cables and Wires.

Available in Max. Test Loads of 5 kN, 10 kN, 20 kN, 50 kN & 100 kN.

Universal Load cells available for 50N, 100N, 250N, 500N, 1kN, 2.5kN, 5kN 10kN, 25kN, 50kN & 100kN.

Different Versions of DC /Servo Motor and MC-Computerized Conforming to IS, BS & ASTM Standards.

Various Grips & Clamping Devices for flat/round specimens as per requirements.



Detailed Brochure of Individual Models comprising of technical specs of Hardware & Software is available on request.

THE BRINELL HARNESS TESTER



Brinell Hardness Tester

IZA Brinell testers ensure faster production testing within tolerance limits by compression method. These testers are capable of measuring hardness of castings, forgings, other metals and alloys of all kinds (hard, soft, flat, round or irregular in shape).

Direct & Accurate measurement BHN using State-of-the-art Advanced Image Processing Technology.

Strictly conform to IS: 2281, ISO 6506: 2005, BS: 10003-2 and ASTM E-10.

Available in Optical, Hydraulic, Computerized, Semi-Automatic & Fully Automatic configurations.



Detailed Brochure of Individual Models comprising of technical specs of Hardware & Software is available on request.

THE BRINELL IMAGE ANALYSIS SYSTEM



COMPUTERISED VICKERS TESTING MACHINE



COMPUTERISED VICKERS TESTING MACHINE

IZA Vickers Hardness Testers provide a wide testing range from soft metals eg. Lead to hardened steels.

Also referred as micro-hardness testers, are mostly used for small parts and thin sections/sheets. Based on Optical Measurement System, The test samples must be highly polished to enable measuring the size of the impressions.

Typically loads are ranging from 10g to 1 kg, for Micro & Macro Vickers loads ranging from 1 kgf to 50kg or even more upto 120 kgf. Brinell Loads from 15.625 to 250 kgf.

Available in different configurations for Vickers and Vickers cum Brinell Hardness, conforming to IS: 1754-1986 for Vickers and IS: 2281-1983 for Brinell Test

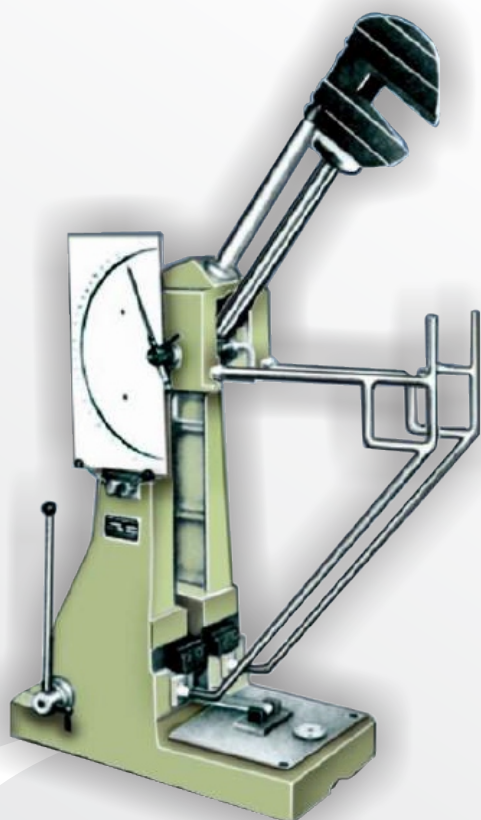


Detailed Brochure of Individual Models comprising of technical specs of Hardware & Software is available on request.

VICKERS CUM BRINELL HARDNESS TESTING MACHINE



ASTM IMPACT CHARPY TESTING MACHINE



IMPACT TESTING MACHINE

IZA Impact Testing Machines also called Pendulum Impact Testers are primarily used for conducting Izod, Charpy tests. The upper starting position is used for Charpy test and the lower starting position is used for Izod test. The pendulum is mounted on anti-friction bearings, and on release, it swings down to break the sample and takes the required measurements.

Available in 300J/168J and 170J & 15J capacities & strictly conforming to ASTM E-23 Current Standard. Motorised with higher capacity version, Large Dial & Digital Readout Versions also available NIST Approval of Machine with samples from NIST, USA can also be arranged.

Optional Accessories eg, Caliper Gauge for checking V Notch for IZOD & Charpy as per BS: 131:PART 1,2,3 and for other relevant measurement concerning V & U Notch.

DIGITAL IMPACT TESTING MACHINE



Detailed Brochure of Individual Models comprising of technical specs of Hardware & Software is available on request.



TORSION TESTING MACHINE



TORSION TESTING MACHINE

Digital Torsion Testing in various capacities from 100 to 3000 Nm



Detailed Brochure of Individual Models comprising of technical specs of Hardware & Software is available on request.

SPRING TESTING MACHINE



SPRING TESTING MACHINE

Spring Testing in various capacities ranging from 5 kg to 300 kg.



Detailed Brochure of Individual Models comprising of technical specs of Hardware & Software is available on request.

METALLURGICAL MICROSCOPE



METALLURGICAL MICROSCOPE

IZA Upright/Metallurgical Microscope is distinct for Microstructure Determination with Brightfield Magnification from 100X to 1000X. The combination of digital camera and Image Analysis software provides streamlined workflows and flexible solutions for image acquisition, measurement and reporting as well as grain size, Inclusions Analysis, Nodularity and other material solutions.



Detailed Brochure of Individual Models comprising of technical specs of Hardware & Software is available on request.

STEREO ZOOM MICROSCOPE



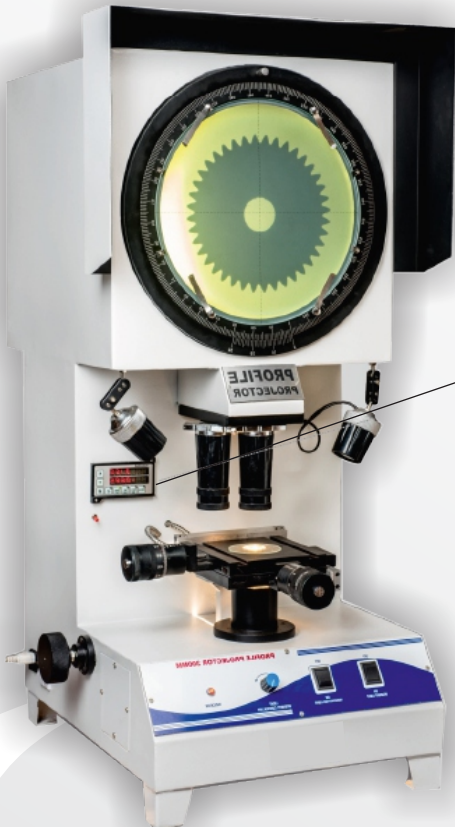
STEREO ZOOM MICROSCOPE

IZA Stereo Microscopes offer latest 3 dimensional Zoom clear stereoscopic view providing continuous variable magnifications from 7X to 180X with comfortable and ergonomic operation. Extensive types of frames with variety of optical options with wide range of zoom support various applications.



Detailed Brochure of Individual Models comprising of technical specs of Hardware & Software is available on request.

PROFILE PROJECTOR



PROFILE PROJECTOR

IZA optical comparator or profile projector is used for the inspection of manufactured parts, for measuring the dimensions and geometry of the part. against prescribed limits. It is useful in a small parts machine shop or production line for the quality control inspection team.

Standard Magnification 10 with Optional 20X, 50X, 80X & 100X with 300 mm dia Screen with 90 deg cross line and chart holders. Measurement available through Micrometer heads 0-50 mm with Least Count 0.005mm

Detailed Brochure of Individual Models comprising of technical specs of Hardware & Software is available on request.



Metallography & Metallurgical Analysis Equipments



SPECTRO GRINDING/POLISHING MACHINE

Grinder/Polisher for Grinding and Polishing the sample for Microscope and Coarse Grinding for analysis on Spectrometer with or without Dust Collection System.

Belt Grinder & Table Top Polishing Machines are also available for Fine/Coarse grinding & Polishing



SAMPLE MOUNTING PRESS

For Preparing Mounts for Microstructure & Image analysis for parameters like Phases, Grain Size & Nodularity and various other metallurgical parameters for detailed investigations.



Abrasive Cut-Off Machine

Abrasive Cut-Off Machine: For Cutting Samples for Sample Mounts of Microscope and Sample Preparation Machine for Spectrometer.



Detailed Brochure of Individual Models comprising of technical specs of Hardware & Software is available on request.



Other Equipment like Radiography Testing Machines, Portable Hardness Tester, Tool Room Microscope, CMM & Small Lathes and related consumables & accessories for Material Testing are also available on request.

ALLIED EQUIPMENTS FOR IMPACT TESTING



Broaching Machine

For Preparing V & U Notch samples for Impact Testing as per National & International Standards mentioned below
ASTM E 23, 370
DIN 50, 115
B3131: PART I TO IV
IS: 1598 1977, IS: 1757 1988, IS: 1499 1977

Available in Manual & Motorized, Single Speed, Three Phase & Variable Speed, Single Phase Configurations.



Digital Temperature Bath

Digital Temperature Bath: For achieving Sub Zero Temp from 0 deg C to -120 deg C for Impact Testing as per National & International Standards. Available with Self Centering Tong, Set of Mesh for holding upto 40 Nos Charpy samples & Steel Container.



Dry Ice Making Machine

Dry Ice Making Machine: For preparing Dry Ice with CO₂ gas for achieving sub zero temperature in Cooling Bath.



Detailed Brochure of above Individual Models comprising of technical specs of Hardware & Software is available on request.

USPs

One Stop Solution for all Mechanical & Material Testing Equipments. All Physical and Chemical Testing (OES/XRF Spectrometer) under one Umbrella. All Analytical (AAS, ICP, UV-VIS Spectrophotometer & GC etc.), NDT (Portable XRF/Alloy Analyzer for PMI, Mineral, Ores & Ferro Alloys and Ultrasonic Flaw Detector etc.) & Metallography Equipments Packages (Microscope, Sample Preparation for Metals & Mineral like Mounting/Pellet Press, Cut-Off, Grinding/Polishing, Machines etc).

- **Application Oriented sales & service personal.**
- **Service Support in all major towns.**
- **24x7 Online Support.**

Additional Portfolio

- **Turn Key Projects for Complete Lab Set-ups with Application Support.**
- **Tie-up with Standards Manufacturing Companies for National & International traceability & NABL Accreditation.**
- **Onsite Training for Routine Operation & Maintenance.**



Total Solutions of All Analytical Equipments

- Mechanical Testing Equipment
- Metallurgical Testing Equipment
- Industrial Testing Equipment
- General Laboratory Equipment
- Energy Testing Equipment
- Biomedical Equipment
- Pharmaceutical Equipment
- Chemical Testing Equipment

Keeping in view the Make in India Slogan (Atma Nirbhar Bharat), Our vision is to Innovate, design and manufacture State-of-the-Art Instruments and Accessories for Global markets by incorporating Quality & Excellence in our DNA. We are committed to build long-term relationships with our customers and pursue our business through innovation, latest technology & unrelenting quest for excellence.

FORGING AHEAD

Follow us on



- 📍 : IZA Analytics, First Floor, C-51, DSIDC Complex Kalyanpuri, East Delhi, Delhi-110091
- 📍 : Mumbai, Chennai, Kolkata
- ✉ : suneil@izaanalytics.com, sales@izaanalytics.com, suneildua@gmail.com
- ☎ : +91-9953999353, +91-9910863575
- 🌐 : www.izaanalytics.in

IZA ANALYTICS IS A GROUP COMPANY OF VAS SPECTROMETERS