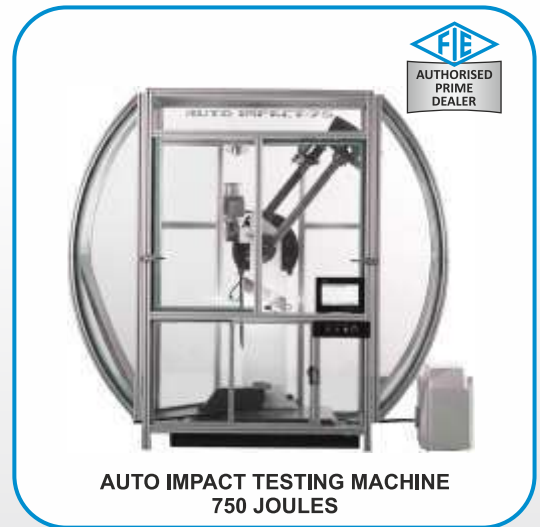


MATRIX TESTING & TECHNOLOGIES PVT. LTD.



Over **10**

**Years of
Consistent
Excellence**

Universal Testing Machine (UTM)

Optical Emission Spectrometer (OES)

Micro Vickers Hardness Tester

Metallurgical Microscope

PMI (XRF) Machine

Brinell Hardness Tester

Portable Hydraulic Brinell Hardness Tester

UCI Hardness Tester

Test Block and UTM Consumables

AMC and Calibration Services

Balancing Machine

Group of Companies

Matrix Testing Machine Services

Matrix Testing & Technologies Pvt. Ltd.

Matrix Analytical Instruments Pvt. Ltd.

CERTIFICATES & AUTHORIZATION LETTERS



Fuel Instruments & Engineers Pvt. Ltd.
Plot No. 88 To 89, Parvati Co-op. Industrial Estate,
YADRAV (CHALKARANJLI) - 416115,
Tal. Shirol, Dist. Kolhapur, Maharashtra State (INDIA)
• Cell : 98500 67733
• E-mail : account@fietest.com
• Website : www.fietest.com / www.fuelinstrument.com

DEALERSHIP AUTHORIZATION LETTER

This is to certify that, **Matrix Testing & Technologies Pvt. Ltd.** Having their office at, Office No. 813, Eighth Floor, Rama Equator, Near Finlolex Chowk, Pimpri, Pune - 411018 is our **PRIME DEALER** for sales, services and calibration of material testing machines and balancing machine manufactured by us for the period 01.04.2024 to 31.03.2025

Place : Yadrav

For, Fuel Instruments & Engineers Pvt. Ltd.

Date: 01.04.2024


 Authorized Signatory

Benefits of Prime Dealer

- ▶ Primary contact for FIE products
- ▶ Hassle free warranty claims
- ▶ Keep fast moving machines in stock
- ▶ PAN India presence
- ▶ Factory trained sales & service team
- ▶ Genuine spare parts in stock (Available in all branches)
- ▶ Provide customized solutions with FIE R&D team


ARUN Technology Limited
 16 The Brunel Centre
 Newton Road
 Crawley
 West Sussex
 RH10 9TU
 United Kingdom
 Tel: +44 (0) 1293 831323
 Email: info@aruntechnology.com
 Web: www.aruntechnology.com

3rd October 2023

Authorisation Letter

To whom it may concern,

We, ARUN Technology Limited, whose registered address is Unit 16, The Brunel Centre, Newton Road, Crawley, West Sussex, RH10 9TU, United Kingdom, declare that;

Matrix Analytical Instruments Private Limited
 Pimpri, Pune, Maharashtra, India 411018

Is our Representatives in India and has been since October 2023.
 We authorise herewith Matrix Analytical Instruments Private Limited to promote, sell and offer a full after sales service for the ARUN Technology Limited brand of spectrometers, in the territory of India.

ARUN Technology Limited will provide support to Matrix Analytical Instruments Private Limited in the supply of necessary consumables, spare parts, and technical support.


 Andrea Guidara
 Head of Business Development, Global & UK
 ARUN Technology Limited

ARUN Technology Limited – Registered Office: 16 The Brunel Centre, Newton Road, Crawley, West Sussex RH10 9TU, UK
 Registration No: 05615079 – VAT Registration No: GB874555062 – Trademark No: UK00003148025


National Accreditation Board for Testing and Calibration Laboratories
CERTIFICATE OF ACCREDITATION

MATRIX TESTING AND TECHNOLOGIES PRIVATE LIMITED (CALIBRATION DIVISION)

has been assessed and accredited in accordance with the standard
ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at
OFFICE NO. 813, EIGHTH FLOOR, RAMA EQUATOR, SAMRAT CHOWK, PIMPRI, PUNE, MAHARASHTRA, INDIA
 in the field of
CALIBRATION

Certificate Number: CC-3626

Issue Date: 23/10/2024

Valid Until: 23/10/2028

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
 (Note: the scope of accreditation of this laboratory, you may also visit NABL website www.nabl.in/india)

Name of Legal Entity: MATRIX TESTING AND TECHNOLOGIES PRIVATE LIMITED

Signed for and on behalf of NABL




N. Venkateshwar
 Chief Executive Officer


QRO
 QUALITY RESEARCH ORGANIZATION

Certificate of Registration

This is to certify that

MATRIX TESTING AND TECHNOLOGIES PRIVATE LIMITED
 OFFICE NO. 813, 8TH FLOOR, RAMA EQUATOR, SAMRAT CHOWK, NR FINLOLEX CHOWK, MORWADI, PUNE, MAHARASHTRA, 411018, INDIA

has been independently assessed by QRO
 and is compliant with the requirement of:
ISO 9001:2015
Quality Management System

for the following scope of activities:
SALES, SERVICES & CALIBRATION OF MATERIAL TESTING MACHINES & NDT PRODUCTS

Date of Certification: 21st September 2023
 1st Surveillance Audit Due: 20th September 2024

2nd Surveillance Audit Due: 20th September 2025
 Certificate Expiry: 20th September 2026

Certificate Number: 305023092346Q






 Head of Certification

Validity of this certificate is subject to annual surveillance audits to be done successfully as per below 300 days from date of issuance.
 The scope of accreditation shall be confirmed, this certificate shall be suspended / withdrawn if:
 The validity of this certificate can be verified at www.qro.org
 This certificate of registration remains the property of QRO. Counterfeit IAF and shall be returned immediately upon request.
 India Office : QRO Certification LLP
 H-1, Plot 10, Area 1, Sector 10, Phase 1, Gurgaon, Haryana (INDIA)
 Website : www.qro.org, E-mail : info@qro.org

INDUSTRIES WE SERVE



AUTOMOTIVE



METAL FINISHING



ACCREDITED TESTING LABS



ELECTRICALS & ELECTRONICS



CASTING & FORGING



METAL & ALLOYS



EDUCATIONAL & RESEARCH INSTITUTES



OIL & GAS



RAILWAYS



EV INDUSTRY



POWER GENERATION



AEROSPACE



DEFENCE



AGRO INDUSTRIES

About US

Welcome to Matrix Group of Industries, your foremost destination for cutting-edge testing instruments and equipment solutions. As the primary distributor of M/s. FIE Ichalkaranji and an authorized representative of Arun Technology Limited United Kingdom, Matrix Group is unwaveringly committed to delivering exceptional sales, service, and calibration services for a wide spectrum of mechanical, physical, and chemical testing instruments.

With a steadfast dedication to excellence and strategic alliances with industry-leading manufacturers, Matrix Group stands at the forefront of providing innovative and dependable testing solutions tailored to meet the diverse requirements of various industries. Our comprehensive range of instruments ensures that our clients have unfettered access to state-of-the-art technology, enabling accurate and precise testing across a myriad of applications.

At Matrix Group, customer satisfaction is our paramount priority. We go beyond merely offering superior products; we provide an unparalleled level of service and support. Our team of highly skilled professionals is committed to guiding you in selecting the most suitable instruments, delivering prompt and efficient service, and ensuring precise calibration to uphold the highest standards of quality.

Our Goals

- ▶ Provide Genuine Products & Application Solution
- ▶ Improve Customer Loyalty & Increase Customer Service Satisfaction.
- ▶ Cost-effective Products & Reasonable Delivery Time
- ▶ World Class Service Support



Our Team

We are backed by highly knowledgeable team of professionals that assist us in carrying out trading and supplying process efficiently. To maintain hassle-free work flow, we have team of procurement agents, sales & marketing representatives, storekeepers, packaging personnel, etc. In addition to this, we organize crucial seminars and training sessions for our professionals to keep them abreast with the latest market development.

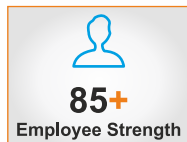
Our Achievements

- ▶ Authorized Prime Dealer :- **FIE - India**
- ▶ Authorized Representative :-
ARUN Technology Limited - United Kingdom
- ▶ NDT Products from Russia & Germany
- ▶ NABL accredited lab with IS/ISO/ASTM calibration scope
- ▶ 4000+ Customers Served



Our Other Services

- ▶ Repairing and maintenance of Material Testing Machines.
- ▶ Third party calibration witnessed by authorities of IBR, TUV NORD INDIA, DNV Pune, SGS India, EIL, Powergrid & LRA Mumbai.
- ▶ Undertaking machines in Annual Maintenance Contract
- ▶ Retrofitting of UTM (Analogue to Digital or Servo)
- ▶ Upgradation of analogue/Optical Hardness Tester to Digital/Computer Interface



Our NABL Calibration Scope (As per IS/ISO & ASTM Standards)

- ▶ Uniaxial Testing Machine - Range up to 3000kN (Tensile & Compression mode)
- ▶ Hardness Testing Machines (Direct & Indirect Verification)
(Rockwell, Rockwell Superficial, Brinell, Vickers, Micro-Vickers, Leeb Hardness Tester, Durometers)
- ▶ Electronic / Mechanical / Extensometers (Clip-on, Long Travel, Non-Contact type)
- ▶ Microscope (Stereo & Metallurgical), Profile Projector & Erichsen Cupping Tester
- ▶ Charpy, Izod & Plastic Impact Testing Machine (Direct & Indirect Verification)
- ▶ Verification of Crosshead Displacement & Speed of Material Testing Machine

OUR ESTEEMED CUSTOMERS





DESTRUCTIVE TESTING MACHINES



Analogue Universal Testing Machines



Analogue Universal Testing Machines
Model : UTN



Analogue Hydraulic Grip Front Loading Universal Testing Machines
Model : UTN-HGFL



Analogue cum Electronic Universal Testing Machines
Model : UTNE

Electronic Universal Testing Machines



Electronic Universal Testing Machines
Model : UTE



Hydraulic Grip Front Loading Electronic Universal Testing Machines
Model : UTE-HGFL



Servo Controlled Electronic Universal Testing Machines
Model : UTES



Servo Controlled Hydraulic Grip Front Loading Universal Testing Machines
Model : UTES-HGFL

Computerized Touch Screen Universal Testing Machines



Computerized Touch Screen Universal Testing Machines
Model : UTE-TS



Computerized Touch Screen Hyd.Grip Front Loading Universal Testing Machines
Model : UTE-HGFL-TS



Servo Controlled Electronic Computerized Touch Screen Universal Testing Machines
Model : UTES-TS



Servo Controlled Hydraulic Grip Touch Screen Front Loading Universal Testing Machines
Model : UTES-HGFL-TS

Electro - Mechanical Universal Testing Machines



Electro Mechanical Universal Testing Machines
Model : UNITEK-9700



Electro Mechanical Universal Testing Machines
Model : UNITEK-97000a



Electro Mechanical Universal Testing Machines
Model : UNITEK-9400



Electro Mechanical Touch Screen Universal Testing Machines
Model : UNITEK 1600-TS



DESTRUCTIVE TESTING MACHINES



Rockwell and Combined Hardness Testers



Rockwell & Combined
Hardness Tester
RAS | RAB-250 | TWIN



Digital Rockwell & Combined
Hardness Tester
RAS-D | RAB-250D | TWIN-D



Analogue Hardness
Tester
RASN | RASNT | RASNB



Digital Rockwell Hardness
Tester
RASNE-3 | RASNT-3 | RASNB-3



Touch Screen Rockwell
Hardness Tester
RASN-TS | RASN-TSFA

Hot Product

Vickers Hardness Testers



Optical Vickers
Hardness Tester
Model : VM-50



Computerized Vickers
Hardness Tester
Model : VM 50-PC

Hot Product



Computerized Touch Screen
Vickers Hardness Tester
Model : VM 50-TS

New Edition



Touch Screen MATSUZAWA
Vickers Hardness Tester
Model : VMT-X7



Auto Turret (Load Cell based)
Vickers cum Micro Vickers
Hardness Tester
Model : MVT-X8 (Alpha Series)

Brinell Hardness Testers



Brinell
Hardness Tester
Model : B-3000 (H)



Brinell
Hardness Tester
Model : B-3000 (O)

Hot Product



Digital Brinell
Hardness Tester
Model : B 3000-E



Touch Screen Computerized
Brinell Hardness Tester
Model : B-3000 TS



Touch Screen Fully Automatic
Computerized Brinell Hardness Tester
Model : B-3000 TSFA

Impact Testing Machines



Impact
Testing Machine
Model IT-30



Impact
Testing Machine
Model IT-30(D)



Impact
Testing Machine
Model IT-30 ASTM

Hot Product



Impact
Testing Machine
Model Auto Impact-30



Impact
Testing Machine
Model Auto Impact-40(ASTM)

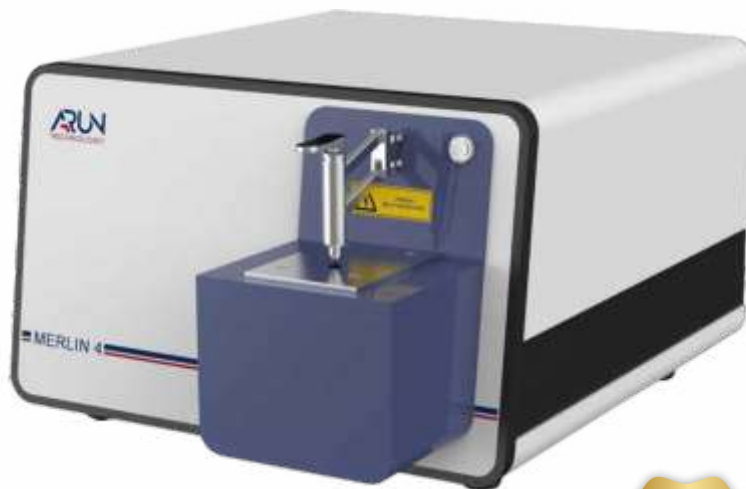


SMALL DESIGN, BIG ON PERFORMANCE

The MERLIN 4 is a state-of-the-art mid-range Optical Emission Spectrometer (OES) equipped with advanced CMOS detectors and an innovative Argon gas-filled optical system. It features intuitive diagnostic software, seamless single-sample standardization, and a unified software platform for both analysis and data management.

Designed for optimal performance in a variety of applications, the MERLIN 4 is ideal for incoming material inspection, in-process testing, and final quality control. It is available in both dedicated single-base and versatile multi-base configurations to meet a wide range of testing requirements.

With its competitive price point, the MERLIN 4 offers outstanding value, ensuring that every metal sample is tested with precision and reliability. Count on the MERLIN 4 to help you maintain the highest industry standards for quality and composition in your materials.



MERLIN 4



UK Engineered



HIGH PERFORMING METAL ANALYZER

OPTICAL EMISSION SPECTROMETER

The ARTUS 8 is a cutting-edge flagship Optical Emission Spectrometer (OES) engineered to provide superior analytical performance. Incorporating a sophisticated multi-optical design, advanced CMOS detectors, and a unique Argon gas-filled optical system, the ARTUS 8 ensures unparalleled precision and sensitivity for the most demanding applications.

With its intuitive diagnostic software and seamless single-sample standardization, the ARTUS 8 simplifies operation while delivering consistent, reliable results. The unified software platform integrates both analysis and data management, streamlining workflows and enhancing overall efficiency.

Designed to meet the exacting demands of metal analysis, the ARTUS 8 excels in providing fast, accurate, and precise analysis. Its dynamic analytical calibrations cover a wide range of alloying elements, including critical elements like Nitrogen, and even trace components essential for achieving the perfect melt. Whether for high-quality material production or precise treatment control, the ARTUS 8 is the ideal solution for accurate & comprehensive elemental analysis.



ARTUS 8



UK Engineered





NEXT-GEN PRECISION SPECTROMETER

INNOVATIVE HIGH-END SPECTROMETER

The ARTUS 10 is the first direct reading spectrometer using CMOS and thermoelectric cooling technology. It is the ideal spectrometer for industries that process incoming steel, non-ferrous, unknown and composite metals material for in-process testing and final quality control. It meets the needs of users looking for a high-end solution.

- The dual optical system design with high thermal stability guarantees a stable optical system as well as equipment data.
- The clasping type electrode locking device improved data stability plus optimally designed spark stand largely reduce the consumption of the argon gas
- Our A-Care Cloud service system can transmit the abnormal state of the equipment to the Cloud server.
- Real time monitoring of the equipment status, allow for problems to be cleared immediately.
- Corrosion resistant spark stand surface and heat dissipation composition ensures 24 hours of un-interrupted and stable analysis.
- Sample holder clamps and solutions are provided for different shapes and sizes

**ARTUS 10**

HH-XRF Analyzer: Handy & Trendy: LIBS Analyzer

XRF ANALYZER

The HELIUS XRF analyzer provides fast, non-destructive testing, delivering precise results in seconds while maintaining the integrity of samples. Equipped with advanced electronics and algorithms, it ensures high-precision measurements across a broad range of materials. Its ergonomic design, lightweight, and compact size make it convenient for use in various environments. The tapered test head allows for easy measurement of curved or cornered parts, such as welds. With a large-capacity battery, it can operate continuously for up to 8 hours.

**HELIUS 300**

Key Features:

- Fast, Non-Destructive Testing:** Delivers rapid, precise analysis while preserving sample integrity.
- High-Precision Measurement:** Ensures accurate results with advanced electronics and algorithms.
- Flexible Model Options:** Available in 300, 600, & 900 models with a 50kV max X-ray tube with up to 4W of power making it versatile for various applications.
- Extensive Grade Library:** Ideal for grade checking & material analysis with a comprehensive library.
- Reliable and Efficient:** Perfect for incoming material testing and grade identification, offering dependable performance.

The HELIUS XRF is a reliable solution for material analysis and quality control across various industries.

LIBS ANALYZER

The CALIBUS by ARUN Technology is a cutting-edge Laser-Induced Breakdown Spectrometer (LIBS), the first CMOS-based analyzer to measure carbon in ferrous materials. It's ideal for QA/QC, metallurgical manufacturing, petrochemical, mining, and recycling industries, providing fast, precise results in just 1 second. With a wide spectrum range of 190nm–800nm, the CALIBUS detects over 20 elements, including C, Li, Be, B, Na, Mg, and Si, offering 10-30x improved efficiency compared to conventional OES spectrometers.

**CALIBUS 5**

Key Features:

- Wide Spectrum Range:** 190nm–800nm, detects over 20 elements including C, Li, Be, B, Na, Mg, Si.
 - Precision:** Three optical cells for better resolution, one specifically for carbon detection.
 - Portable and Lightweight:** Weighs 2kg, easy to use in various environments.
 - Argon Purge Technology:** Reduces background noise, allowing up to 500 tests per argon canister.
 - Interactive Interface:** 5-inch high-resolution touchscreen with adjustable daylight display for easy readability indoors and outdoors.
- The CALIBUS offers a combination of speed, precision, & portability for efficient elemental analysis.



DIGITAL COMPUTERIZED MICRO VICKERS HARDNESS TESTER

Highly precise hardness tester suitable for test of widely hardness ranges from softest to hardest materials. This machine available with Manual & automatic turret system guided by optical cross rail to achieve highly accurate & precise results. This machine is equipped with built-in encoder with click button on encoder to avoid human errors. Equipment is also featured with a DATA storage & calibration. Most compact in size & light weight.

MIDRANGE MICRO VICKERS HARDNESS TESTER



MMT-X5 (ALPHA SERIES)

- ▶ Automatic Motorized Turret System
- ▶ Optical Measurement with Digital Encoder
- ▶ Worm UP/DOWN Movement
- ▶ Same Image at the same time is shown on Monitor and Optical System
- ▶ 5.6" touch screen Digital display
- ▶ Digital Computerized & Direct ECD value
- ▶ built-in printer, test result can be printed out directly
- ▶ Hardness Scale HV0.01 to HV1



MMT-X8 (ALPHA SERIES)

- ▶ Automatic Motorized Turret System.
- ▶ Optical Measurement with Digital Encoder.
- ▶ Multifunctional 8-inch LCD touch screen panel.
- ▶ Flexible & Foldable design of hand wheel.
- ▶ 8P Data Storage system with store up to 300 Test reports.
- ▶ Digital Computerized & Direct ECD value
- ▶ built-in printer, test result can be printed out directly
- ▶ Hardness Scale HV0.01 to HV1

FLAGSHIP MICRO VICKERS HARDNESS TESTER



MMT-X8 XY (ALPHA SERIES)

- ▶ Automatic X-Y Stage Control System
- ▶ Automatic Motorized Turret System
- ▶ Optical Measurement with Digital Encoder
- ▶ Multifunctional 8" Digital display with touch screen
- ▶ Digital Computerized & Direct ECD value
- ▶ Same Image at the same time is shown on Monitor and Optical system
- ▶ Easy conversion of hardness value
- ▶ Hardness Scale HV0.01 to HV1

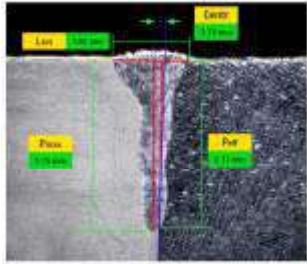


MATSUZAWA (Made in JAPAN) (Micro Vickers Hardness Tester)

- ▶ Automatic Motorized Turret System with two indenter & four objective lenses.
- ▶ Optical Measurement with Digital Encoder
- ▶ Worm UP/DOWN Movement
- ▶ Color touch screen Digital display
- ▶ Digital Computerized & Direct ECD value
- ▶ built-in printer, test result can be printed out directly



MICROSCOPE WITH IMAGE ANALYZER



Over 250+
Installations



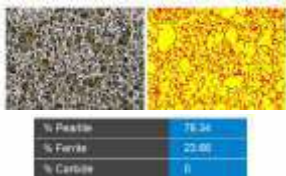
STEREO MICROSCOPE (MATRIX-100M)

- ▶ A 45° inclined trinocular head comprised zoom optical system stereo microscope.
- ▶ WF10x/22mm eyepiece and 100 mm of working distance.
- ▶ Optional auxiliary lens 0.5X with 0.5X C-mount.
- ▶ Inter pupillary distance adjustable between 54 mm to 76 mm.
- ▶ 6.7 to 45X Total Magnification.
- ▶ 3W LED bulb for incident and transmitted illumination.



TRINOCULAR STEREOZOOM MICROSCOPE (WITH BOOM STAND)

- ▶ Magnification Range : 7 to 45x (Standard) can be increased to 180x depending on different combination of eye piece & Auxiliary lens used.
- ▶ Observation Head : Trinocular, 1x magnification with interpupillary and diopter adjustment.
- ▶ Stand : Double-arm heavy duty boom for stereo microscopes allowing you to point microscope head in ANY direction desired
- ▶ Base : Cast Steel base.
- ▶ Focusing System : Rack & pinion arrangement coarse focusing with pillar clamp. Coarse adjustment app. 50mm.
- ▶ Illumination : LED ring light with intensity controller.



Over 250+
Installations



Hot Product

TRINOCULAR INVERTED METALLURGICAL MICROSCOPE (MATRIX-1000M)

- ▶ Siedentopf 45° inclined head.
- ▶ Infinite optical system.
- ▶ Transmittance & Reflectance Kohler illumination system.
- ▶ 10 to 100X Infinite plan achromatic objectives.
- ▶ 100 to 1000X Total Magnification.
- ▶ 0.5X Video Coupler with LED illumination.

Metallurgical Image Analysis System Features

- ▶ Grain Analysis
- ▶ Phase Analysis
- ▶ Inclusion Analysis
- ▶ Nodule Analysis
- ▶ Flake Analysis
- ▶ Dendritic Arm Specing
- ▶ Porosity Analysis
- ▶ Coating Thickness measurement
- ▶ Decarburization
- ▶ Basic 2D measurement



TRINOCULAR INVERTED METALLURGICAL MICROSCOPE (MATRIX-1000M EDGE)

- ▶ Infinity color corrected optical system
- ▶ 30° inclined gemel trinocular head
- ▶ reversed quadruple nosepiece
- ▶ Infinity large working distance plan
- ▶ High eye-point wide field eyepiece WF10x/20mm
- ▶ achromatic metallurgical objective (5X, 10X, 20X, 50X, 100X)
- ▶ Single 5W LED
- ▶ Double layer mechanical stage with X/Y coaxial adjustment



METROLOGICAL INSTRUMENT

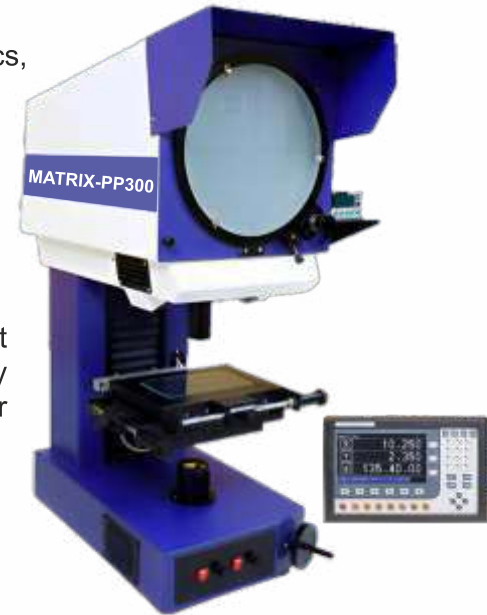
DIGITAL PROFILE PROJECTOR

An Optical Profile Projector beautifully combines optics, mechanics, electronics, and software to provide small parts two-dimensional measurements.

A beam of parallel light, produced by a tungsten or filament lamp (and with a large enough diameter to provide coverage of the test piece) along with a system of condensers, lenses, and mirrors is used to create and project a shadow of the test piece onto a built-in projection screen. The optical system magnifies the profile of the small part, making it easy to do measurements.

The built-in table on which the test piece is kept is called a work stage that can be moved in x-y directions and has integrated linear encoders to precisely measure the x-y movements which are then displayed on a digital read-out or a computer screen using metrology software.

The operators using their visual acuity and perceptiveness identify and mark a reference point on the shadow (screen has crosshair reference). They then move the work stage along the length of the shadow, the dimension of which is to be measured. Alternatively, they can identify and mark points, and the system automatically calculates the distance, angle, arc length, etc. of the shadow and consequently calculates the same for the part.



Model: MATRIX-PP300

MEASUREMENT FUNCTIONS:

- ▶ Line measurement,
- ▶ Distance measurement,
- ▶ Skew measurement,
- ▶ Point measurement,
- ▶ Circle measurement,
- ▶ Angle measurement.

FEATURES

- ▶ Linear and non-linear machine error compensation
- ▶ Grid compensation
- ▶ Edge detector mode
- ▶ USB interface for PC backup
- ▶ Resolution supported up-to 0.1µm
- ▶ Result export to AutoCAD facility
- ▶ Graphic LCD Display
- ▶ Programming facility available
- ▶ Construction of feature
- ▶ Ergonomically laid out keypad ensures ease of operation
- ▶ Feather touch keyboard

VIDEO MEASURING MACHINE

A Video Measuring System swiftly and accurately measures small rubber and plastic parts in 3D. It uses video edge detection, making measurements fast and easy for operators. Just one click on high-resolution video, and it's done!

Video Measuring Machine is also known as Vision Measuring Systems, is used for quick and accurate 3d measurements of small parts with Video edge detection technique. Edges detection on high-resolution video with a single click making the measurement process fast and operator-independent.

A video measuring machine is used to accurately measure the dimensions and features of objects using a video camera and specialized software. It helps in quality control, precision engineering, and ensuring accurate manufacturing by providing precise measurements quickly and efficiently..

- ▶ Vision system - Continuous detent zoom lens 0.7x~4.5x High definition Gigabit colour CCD camera
- ▶ Illumination - Contour illumination: LED parallel lamp Surface illumination: LED 3 ring light
- ▶ Continuous detent zoom lens 0.7x-4.5x
- ▶ Metrology 2D measuring software

FEATURES

- ▶ Highly accurate measurements
- ▶ Advance illumination system
- ▶ Very robust marble base
- ▶ High image quality
- ▶ High magnification with distortion free image
- ▶ High precision optics camera
- ▶ Ergonomic design
- ▶ Classic model



Model: MATRIX-VMM200



PORTABLE HYDRAULIC BRINELL HARDNESS TESTER

KBT-3000A

Hot Product

Available with
NABL Calibration



KBT-3000

Hot Product

Available with
NABL Calibration



Portable Brinell Testers are versatile enough to test any size and shape of metal. Portable hydraulic Brinell Tester Bases allow testing of your tallest and widest metal pieces. Long Ram Test Head for easy access into recessed areas or over raised edges. Low Pressure Test Head for softer metals, can be calibrated to release loads of, 500 kgf, 750 kgf or 1000 kgf.

It could be applied in workshop, simple operation, easy carrying, and testing body hardness of large parts piece by piece.

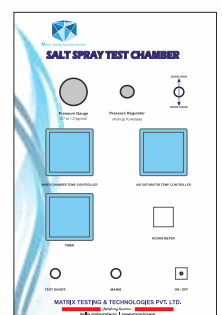
Indication error, repeatability error and test force accuracy comply with ISO ,and ASTM standards , the same as desk testers

SALT SPRAY CHAMBER

Salt Spray Test Chamber has been designed strictly as per the relevant Test Standard ASTM B-117 the ability of rust proofed components to withstand corrosion due to atmosphere conditions.

Features

- ▶ It is Double Walled.
- ▶ Available in 3 models: -
- ▶ Full Body F.R.P (Fiber Reinforced Polymer)
- ▶ Full stainless-steel body (Inner Body, Stainless Steel-316 & Outer Body, S.S-304)
- ▶ Inner S.S chamber & Outer Mild Steel.
- ▶ Temperature range from Ambient to 38 degree Celsius. (Temp. Accuracy $\pm 2^{\circ}$ C)
- ▶ Solid State Digital Programmable Temperature Controller cum indicator with special Zero Corrosion PT 100 sensor.
- ▶ With Air Regulator, Pressure Gauge, Hour Meter
- ▶ Separate user-friendly Touch Screen Color Display.
- ▶ It's also Available with the Smart System of PLC & HMI Based with Automatic Data Logging and Graph Savings and Report Generation.





LEEB HARDNESS TESTER (PORTABLE) - MASH PROJECT RUSSIA

PORTABLE HARDNESS TESTER - TKM359 CE

Hardness is the mechanical resistance offered by a material. The definition of hardness differs from that of strength, which is the resistance of a material to deformation and separation.

DYNAMIC/LEEB HARDNESS TESTER TKM359 CE

High precision hardness tester TKM-359CE intended quick measuring of metal items in laboratorial, manufacturing and field conditions. It is designed to measure metal hardness, including thermo treatment quality check, HFC (high frequency current) tempering and mechanical Strength estimation.



Hot Product

MEASUREMENT :

Measurements on steel, cast iron, tool steel, stainless steel, gray and ductile iron, brass, bronze, aluminum and wrought copper alloys Measurements on large and small molds, bearings heavy work pieces and permanently assembled parts Failure analysis of pressure vessels, steam generators, etc.

UCI HARDNESS TESTER (PORTABLE) - MASH PROJECT RUSSIA

UCI HARDNESS TESTER - TKM459 CE

High precision hardness tester TKM-459CE intended for quick measuring of metal items hardness in laboratorial, manufacturing and field conditions. The TKM-459CE works on the principle of "Ultrasonic Contact Impedance": The piezoelectric crystal causes the rod in the probe to vibrate longitudinally. The Vickers diamond at the lower end of the rod is pressed by a spring into the work piece surface. Depending on probe choice, this is done with the thrust of 10, 50 or 100 Newton.

MEASUREMENT :

Hardness testing on fine-grained, weld joints n-walled materials and allows, carbonaceous and structural steels Items with surface-hardened layers such as cementation, nitride hardening, high frequency current hardening Heat-proof, corrosion-proof, non-corrosive steels, Plated coating (chrome), overlaying, Items of complicated configuration. Device is intended for non-destructive testing of production quality metallurgy, Automotive, Tubes & Pipes, Gear, Bearing, mechanical engineering, aircraft, shipbuilding, atomic industry, oil and gas industry.



Hot Product

PORTABLE LIBS SPECTROMETER (LIS-02)

A portable LIBS Spectrometer LIS-02 is designed for operational input inspection of rolled metal products, determination of steel grades, a scrap of non-ferrous and ferrous metals and alloys. The libS spectrometer provides high speed in determining chemical elements:

C, Si, Mn, Cr, Ni, Fe, Mg, Al, V, Cu, Zn, Sn, Mo, Ti, W, Nb, Pd, Ag, Cd, Pt, Au, and others.

FEATURES OF SPECTROMETER LIS-02

Carbon analysis: The spectrometer LIS-02 allows to measure carbon concentration in steels without using argon, directly in the air.

Speed & Accuracy : High speed analysis, result in 1 sec. Provides unsurpassed resolution of 0.01 nm over the entire measurement range.

Reliable: LIBS Spectrometer has unlimited operating life, compared to X-ray fluorescence spectrometers (XRF).

CE Value: Measurement of carbon equivalent values

Camera: High resolution camera to capture the location of analysis.

AREAS OF USE

- Input/output control of metals, alloys
- Sorting scrap
- Spectral analysis in laboratory studies
- Positive metal identification (PMI Machine)
- Quality testing of metal

Detects Carbon
Analysis within 2 Sec.
without Argon Gas





Multi Axis-Bridge Type Brinell Hardness Tester

Moving Head Rockwell Hardness Tester



Multi Axis Computerized
Brinell Hardness Tester
Model : Brinmax-3000-V



Bridge Type Computerized
Brinell Hardness Tester
Model : Brinmax-3000-B



Load Cell Based Fully Automatic Moving
Head Rockwell Hardness Tester
Model - RASN TSFA MH

Bend Rebend Testing Machine

Chain & Rope Testing Machine

Compression Testing Machine



Bend Rebend Testing Machine
Model : Power Bend-Pro



Touch Screen Computerized
Chain & Rope Testing Machine
Model : CRE-TS



Electronic 4 Column Compression
Testing Machine
Model : CTE-200 & 300

EXTENSOMETERS



Mechanical Extensometer
Model EM-1



Electronic Extensometer
Model EE-2



Long Travel Extensometer
Model LTE-800



Strand Wire
Extensometer



VIDEO Extensometer for Optical
Strain Measurement

Horizontal Balancing Machines

Vertical Balancing Machines



Dynamic Balancing Machines
with Microprocessor Based
Measuring Panel
Model : HDM



Belt Driven Horizontal Balancing
Machine with Microprocessor
Based Measuring Panel
Model : HDCM



Vertical Balancing Machines
with Microprocessor
Based Measuring Panel
Model : HDVM



Auto Correction
Vertical
Balancing Machine
Model : Balance Tech VAC



Sample Preparation Machines

Spectro Polisher



Automatic Cutting Machine



Touch Screen Automatic Mounting Machine



Double Disc Polishing Machine



Spectro Polisher

Ultrasonic Testing (UT)

Video Boroscope

Hot Tensile Test Furnace

Ferriometer



Digital Ultrasonic Flaw Detector



Video Boroscope



Hot Tensile Test Furnace



Model - MF-71L

Consumables



Strand Wire Grips



Rack Jaws



Standard Test Blocks



Poldy Test Bar



Ball & Diamond Indentors

Other Products

Broaching Machines



NIST Samples



UTM UPGRADATION KIT (PLC BASED)



Brinell Image Measuring System Model : B.I.M.S.



Load Cell



Manual Broaching Machine Model : Pro Broach

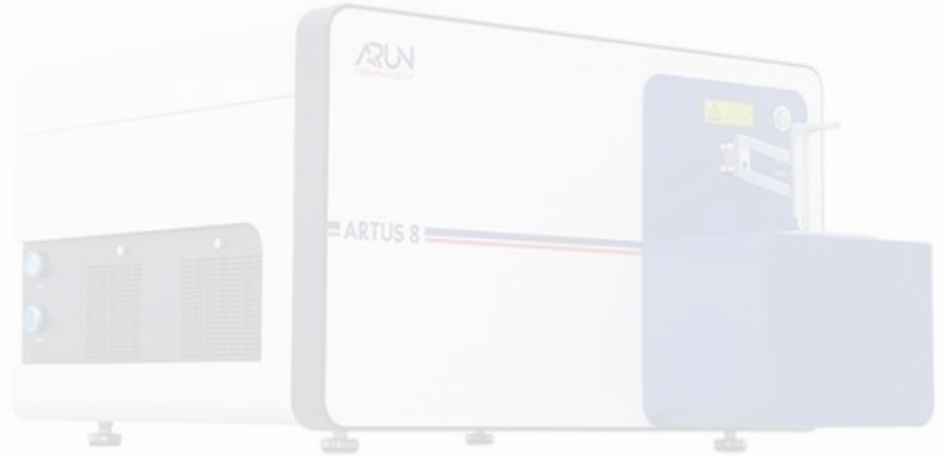


Automatic Broaching Machine Model : Pro Broach Plus



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Years of
Consistent
Excellence



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