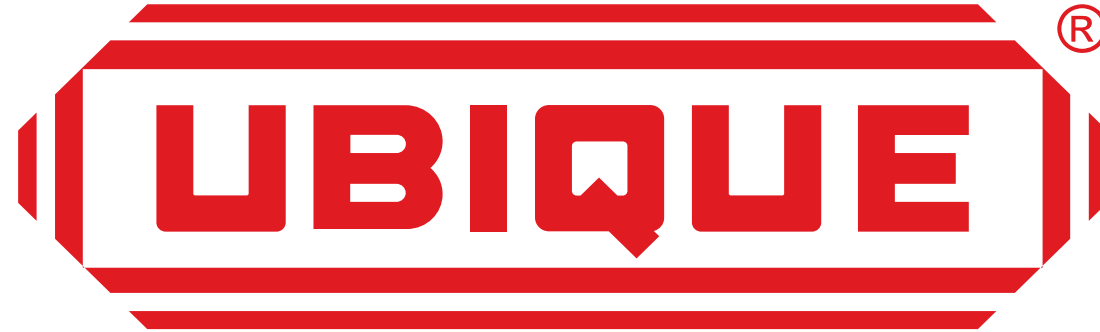




Trusted Name in Testing Machines

ESTD 1973



Company Overview



UBIQUE INDUSTRIAL SYSTEMS PVT LTD

For last 5 decades manufactures customized special purpose testing machines to cater the Packaging, Automotive and Defence Industries.

With a team led by Technical Directors and expertise in mechanical, electrical and mechatronics, we pledge to provide a test solution for constant improvement in customer product quality.



Our Journey



1973
Established

1980

Development of test equipment for paper, boards and plastics

1983

- Development of strapping machines and re-inforced paper manufacturing machines
- Received Parkhe Award for the development



1988

Development of whole range of test equipment for automobile industry

1985

- Development of test equipment for automotive industry- gear roll testers and oil seal testers
- Received Parkhi Awards for the development



1992

- Development of transmission test rig and import substitute solutions
- Received Hari Malini Award for import substitute



1994

- Expansion to additional facility at Pirangut
- Receipt of Parkhe Awards and Import Substitute Awards



2000

Expansion of capacity-separate facility for assembly testing and fabrication

Continue...

Our Journey



2004

- Additional facility at Pirangut.
- New office building at Pune

2010

Development of electronic and electrical components testing

2018

Development of Robotic Chamfering Machines

2021

Expansion of office space in same premises for design and development

2005

Tie ups with multiple companies for providing turnkey solutions

2015

Collaboration with German and American companies for their representation in India

2019

More than 1000 test stand and other equipment installations

2023

Partnership with Germany company - Discom for NVH Analysis Systems

Our Facilities



■ Corporate Office

- Centrally located Head office in Pune with 3600 SQFT Area for commercial and marketing activities.
- A separate Administration Block of 3000 SQFT at the Manufacturing Facility

■ Manufacturing Unit at Pirangut

- 3000 SQFT Fully equipped tool room
- 5000 SQFT Assembly and Testing area
- 2500 SQFT Area for In house Fabrication
- 1000 SQFT Area for In house Painting



| Our Strengths



- Technically qualified promoter directors
- More than 40 years of experience in design and manufacturing
- Concept to commissioning of the requirement
- Team of Experienced Designers for Mechanical, Electrical and Electronics.
- Sales and Marketing Team for Pan India reach
- Calibrated metrology equipment for quality control
- Pan India Service Network
- Machine Systems to suit multiple platforms like Labview, Siemens & Mitsubishi SCADA.
- Collaboration with companies for precise machining
- Collaboration with quality testing labs
- Collaboration with companies for software development

| Market Segments



**Automotive
Industry**

**Electric
Mobility**

**Defence
Industry**

**Packaging
Industry**

**Food
Industry**

**Medical
& Pharma**

| Our Offerings



Automotive Industry

- Special Purpose Machines
- End Of Line Test Equipment For
 - Auto Components,
 - Electronic Components
 - Electrical Components
- Noise Vibration And Harshness Analysis Systems
- Gear Roll Testers
- Gear Chamfering Machines
- Gear Deburring Machines



Electric Mobility

- Test Equipment For
 - Motors
 - EV Drives
 - Controllers
- Test Systems for ECU And VCU
- Noise Vibration and Harshness Analysis Systems



Defence Industry

- Special Purpose machines for Defence Vehicle Components.
- End of Line Test equipment for Defence Vehicle components

| Our Offerings



Packaging

- Test equipment for papers, boards, boxes and plastics
- Universal testing machines
- End of line packaging solutions
- Web tensioning systems
- Geared motors and mechatronic solutions



Food

- Test Equipment for Food Products
- Universal Testing Machines
- Software's for Data Handling (21CFR)



Medical & Pharma

- Test Equipment for Medical & Pharma Industry Packing
- Universal Testing Machines
- Software's for Data Handling (21CFR)
- Temperature Monitoring Systems

Product Range

Double Flank Gear Testers

Double Flank Gear Testers- Bore Gears



Nano-GRT-H

- For Bore type small gears for 2 wheeler gearboxes.
- Maximum Gear Ø 170 mm
- Min Centre Distance- 45mm
- Max Centre Distance- 200mm



Mini-GRT-H

- For Bore type medium gears for 4 wheeler gearboxes.
- Maximum Gear Ø 200 mm
- Min Centre Distance- 50mm
- Max Centre Distance- 200mm



STD-GRT-H

- For Bore type large gears for tractor gearboxes.
- Maximum Gear Ø 400 mm
- Min Centre Distance- 65mm
- Max Centre Distance- 280mm

Double Flank Gear Testers- Shaft Gears



Nano-GRT-V

- For shaft type small gears for 2 wheeler gearboxes.
- Max Gear Ø 150 mm
- Min/Max Shaft length- 45/200mm
- Min Centre Distance- 45mm
- Max Centre Distance- 200mm



Mini-GRT-V

- For shaft type medium gears for 4 wheeler gearboxes.
- Maximum Gear Ø 180 mm
- Min/Max Shaft length- 50/280mm
- Min Centre Distance- 50mm
- Max Centre Distance- 200mm



STD-GRT-V

- For shaft type large gears for tractor gearboxes.
- Maximum Gear Ø 380 mm
- Min/Max Shaft length- 60/550mm
- Min Centre Distance- 65mm
- Max Centre Distance- 280mm

Double Flank Gear Tester- Computerized



- Suitable for Bore and Shaft Type Gears
- High Speed Data acquisition system for precise measurement
- Auto Engagement of Master and Component Gear
- Servo Controlled Gear Rotation
- Variable Test speeds 1-10 rpm
- Realtime online graph plotting
- Graph overlap for comparison
- Parameters measured – DFCE, TTCE, DOB (calculated) & High Spots
- Customisation for integration with Laser marking, Poka yoke systems , Robotic Integration, High spot marking, OK/NOK marking



Double Flank Gear Tester-Internal Gears



- Suitable for Internal Spur and Helical Gears
- Minimum Gear Ø 150mm
- Maximum Gear Ø 380mm
- Auto Engagement of Master Gear and Component gear with pneumatic cylinder
- Digital read out of readings
- Auto rotation of component gear with settable speeds
- Customisation for Integration of Computerized system



| Double Flank Gear Tester-Multiple Gears



- Suitable for High rate of production and testing
- Suitable for Bore Type Gears
- Simultaneous testing for 3 identical gears
- Auto Engagement of Component gears through pneumatic cylinders
- Computerized system with simultaneous graph plotting for 3 gears
- Parameters measured – DFCE, TTCE, DOB (calculated) & High Spots



| Double Flank Gear Testers- Cluster Gears



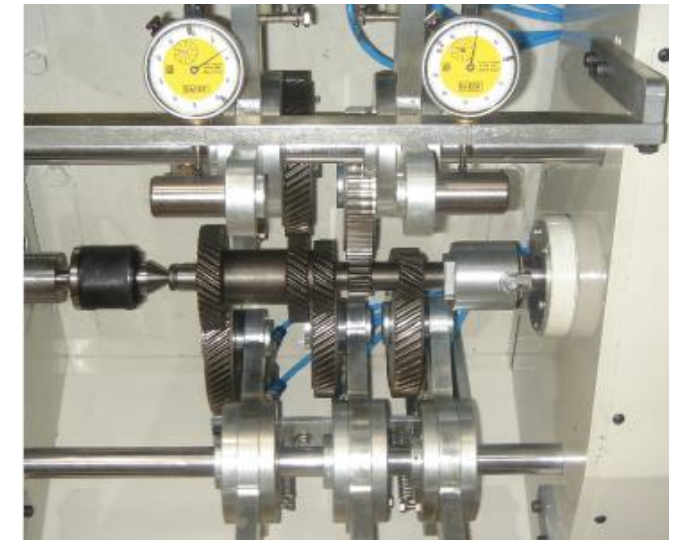
Double Flank Gear Tester- Cluster- Manual

- Manual Machine for Integrated Shaft type gears.
- Manual rotation of Master Gear indexing table.
- Provision for mounting Maximum 10 Master Gears



Double Flank Gear Tester- Cluster- Automatic

- Automatic Machine to Check Maximum 5 Gears simultaneously
- Computerized system with simultaneous graph plotting for all 5 gears
- Automatic Engagement of Master gears with Component gears
- High spot marking system after test
- Settable test speed 1-10rpm



Product Range

Gear Teeth Deburring Machines

| Gear Teeth Deburring- Single Head



- Suitable for Spur, Helical & Involute gears with bore
- Adjustable Speed for gear rotation
- Self centering 3 jaw chuck to hold tooling/gear
- Pneumatic grinder with abrasive parting wheel for deburring
- Provision for electric grinder with rotary cutter
- 5 axes of freedom of deburring head for fine settings
- Auto cycle with auto engagement and retraction of deburring head
- Minimum Gear Ø 60mm
- Maximum Gear Ø 325mm



| Gear Teeth Deburring- Double Head



- Suitable for Spur, Helical & Involute gears with bore & shaft gears
- Adjustable Speed for gear rotation
- Self centering 3 jaw chuck to hold tooling/gear
- Pneumatic grinder with abrasive parting wheel for deburring
- Second head with wire brush for deburring secondary burr
- Provision for electric grinder with rotary cutter
- 5 axes of freedom of deburring head for fine settings for both heads
- Auto cycle with auto engagement and retraction of deburring head
- Minimum Gear Ø 60mm
- Maximum Gear Ø 325mm



| Gear Teeth Deburring- Automatic



- Suitable for Spur, Helical & Involute gears with bore & shaft gears
- Adjustable Speed for gear rotation
- Self centering 3 jaw chuck to hold tooling/gear
- Pneumatic grinder with abrasive parting wheel for deburring
- Second head with wire brush for deburring secondary burr
- Provision for electric grinder with rotary cutter
- 5 axes of freedom of deburring head for fine settings for both heads
- Auto cycle with auto engagement and retraction of deburring head
- Minimum Gear Ø 60mm
- Maximum Gear Ø 325mm
- PLC for Robotic Integration for pick and place of gears



Key Projects

Customized Testing Equipment

Transmission Test rig- Passenger cars



Transmission Test RIG - Tata Motors - Passenger Vehicles

- Designed to test 5MT and 6MT Transmissions
- Designed to test 7 variants of Transmissions on the same setup
- Values measured:
 - Gear ratios, Speeds, NVH analysis, Gear slip, Gear crash, Shifting load
- PLC + NI + Labview system
- Closed loop conveyor for oil filling and oil draining
- Filtration system with measured quantity oil filling



Transmission Test rig- Tractors



Tractor Transmission Test RIG - Mahindra and Mahindra

- Designed and manufactured to test 4 variants of Tractor transmission for gear ratios, rpms, noise, gear shift feel
- Filtration unit with oil filling system
- PLC+Scada based system
- Electrical safety features of system hardware
- Operator safety and interlocks during testing



Axle Test Rig-Rear Axle



Axle Test Rig – Dana Axles – Commercial vehicle

- Designed and manufactured to test 4 variants of Axles
- Filtration unit with controlled oil filling and draining system
- Parameters measured
- Gear ratios, Speeds, Direction of Rotation
- Wheel spin, Differential test, Torque to rotate
- PLC+ Labview based system



Axle Test Rig-Rear Axle



E-Axle Test Rig – Dana E-Axles – Golf Cart Vehicle

- Designed and manufactured to test 2 variants of E-Axles
- Discom NVH System
- Parameters measured
- Gear ratios, Speeds, Direction of Rotation
- Wheel spin, Differential test, Torque to rotate
- PLC+ Labview based system



| Water and Oil Pump Test rig



Water and Oil Pump Test Rig - Tata Motors - Commercial Vehicle

- Designed and manufactured to test 2 type of pumps for flow against engine back pressure
- Realtime display of flow and pressure
- PLC + HMI based system



| ECU & VCU Test rig



End of Line Test RIG for ECU and VCU

- Designed and manufactured to test the vehicle ECU
- Auto clamping on test fixture
- Tests performed
- Can based DUT identification
- Digital input test
- Load test/digital output test
- FIU (fault insertion test)
- Calibration test
- Analog input test

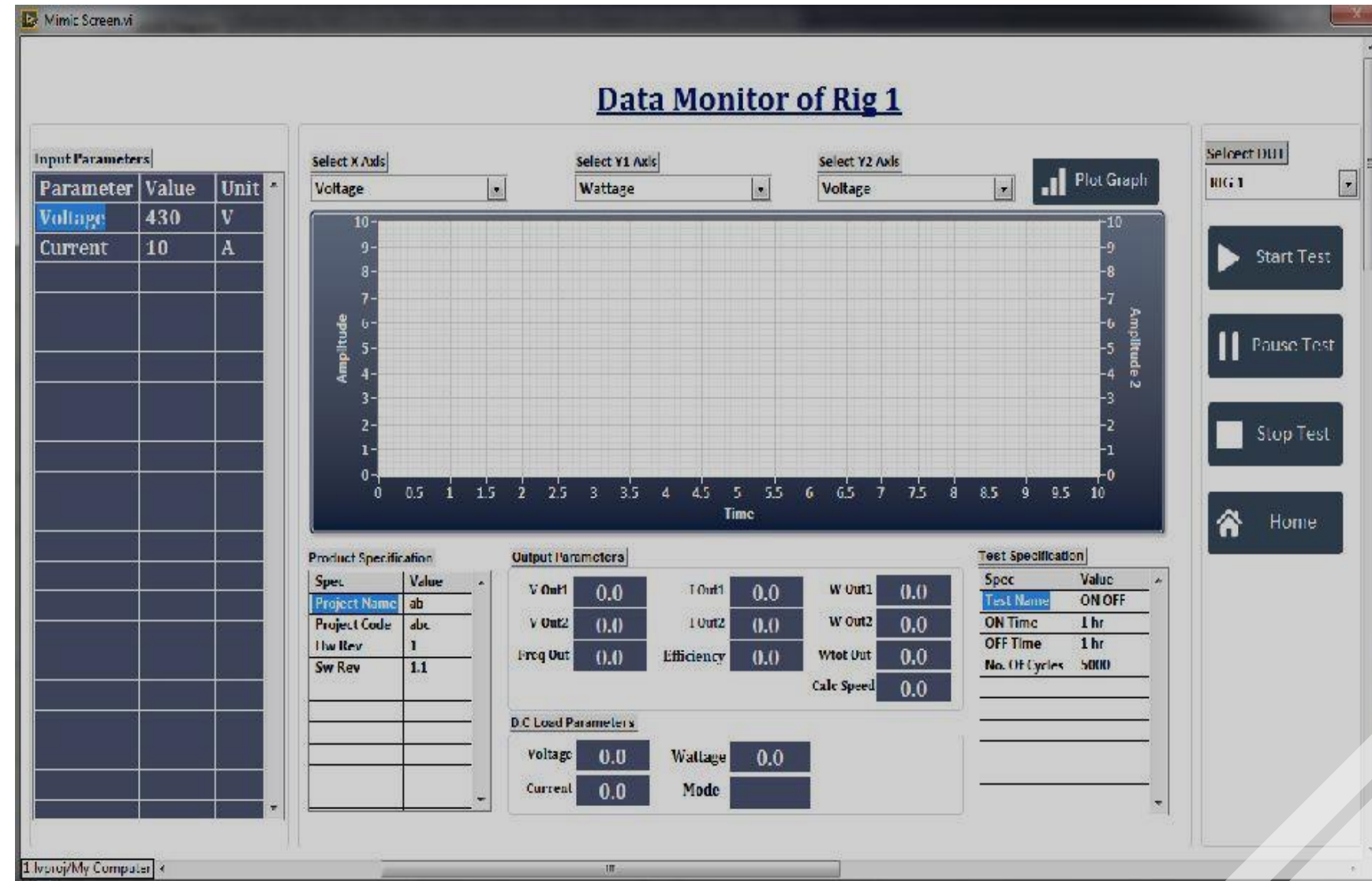


Test rig for BLDC Motor and Drive



Endurance Test RIG for BLDC Motor and Drive

- Designed and manufactured to the BLDC motor and drive setup
- High speed data acquisition through no hardware and labview system
- Parameters measured
 - Voltage
 - Current
 - Power
 - Short circuit current
 - Overload/No load voltages
 - Winding losses



| Our Customers



TATA MOTORS



ROYAL ENFIELD

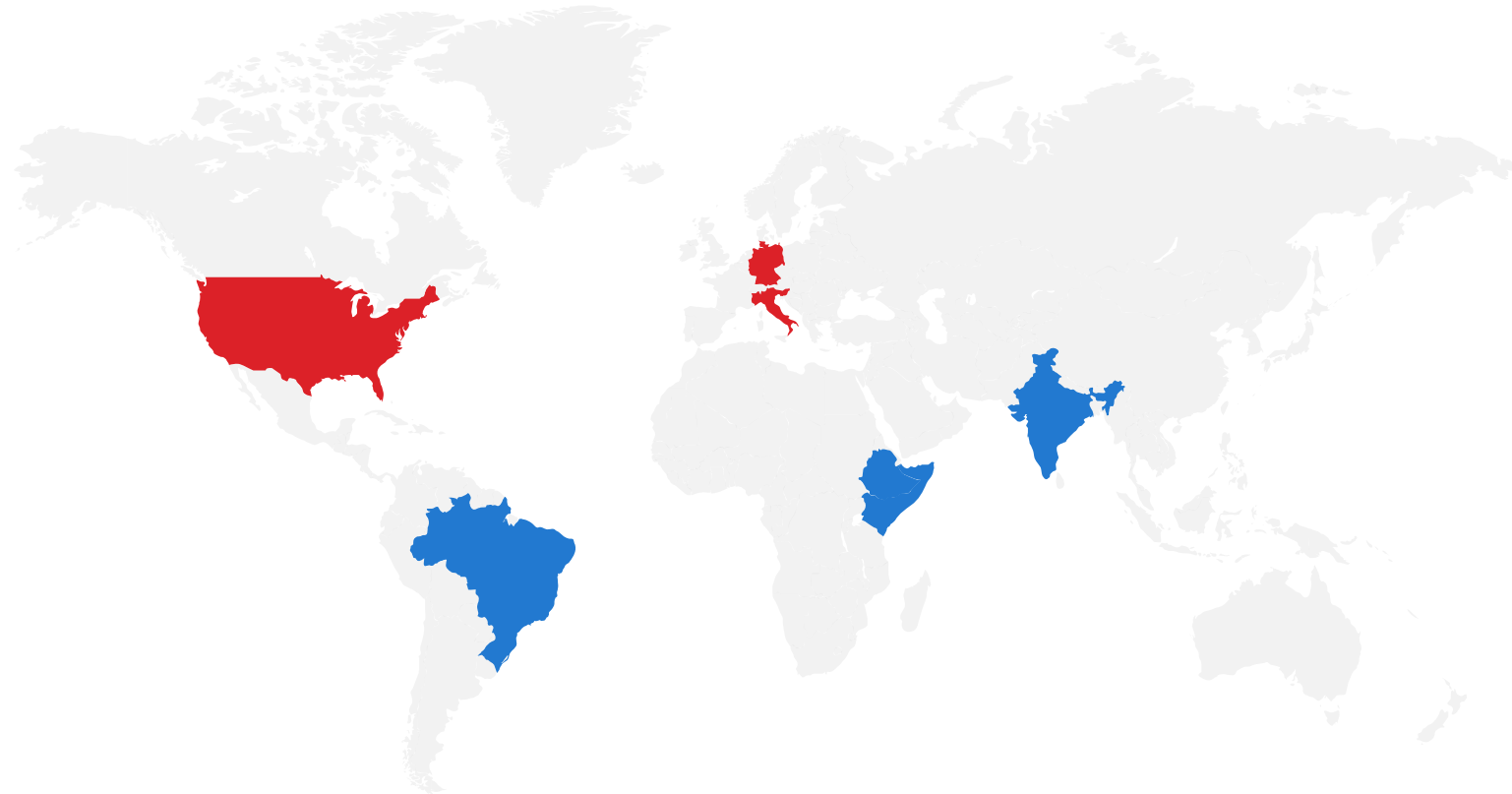


mb Menon Bearings Ltd.

SCHAEFFLER



| Global Footprint



 Supplies

 Associates

Our Associates



NVH ANALYSIS SYSTEMS - GERMANY



GEARED MOTORS AND DRIVES- ITALY



| Our Value Proposition



- More than 40 years of experience in Design and Manufacturing
- Technical Directors with a team of 55 professionals
- Dedicated Technical Sales team for Pan India Activity
- In house facilities to achieve quality, accuracy and precision
- Concept to commissioning ability
- Pan India presence
- High end data acquisition systems and controls
- One stop solution hub
- Diversity in market segment
- Partnerships with complementary industries

| Our Partners



Electronics and Software



Precision Machining



Automation

| Contact Us



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