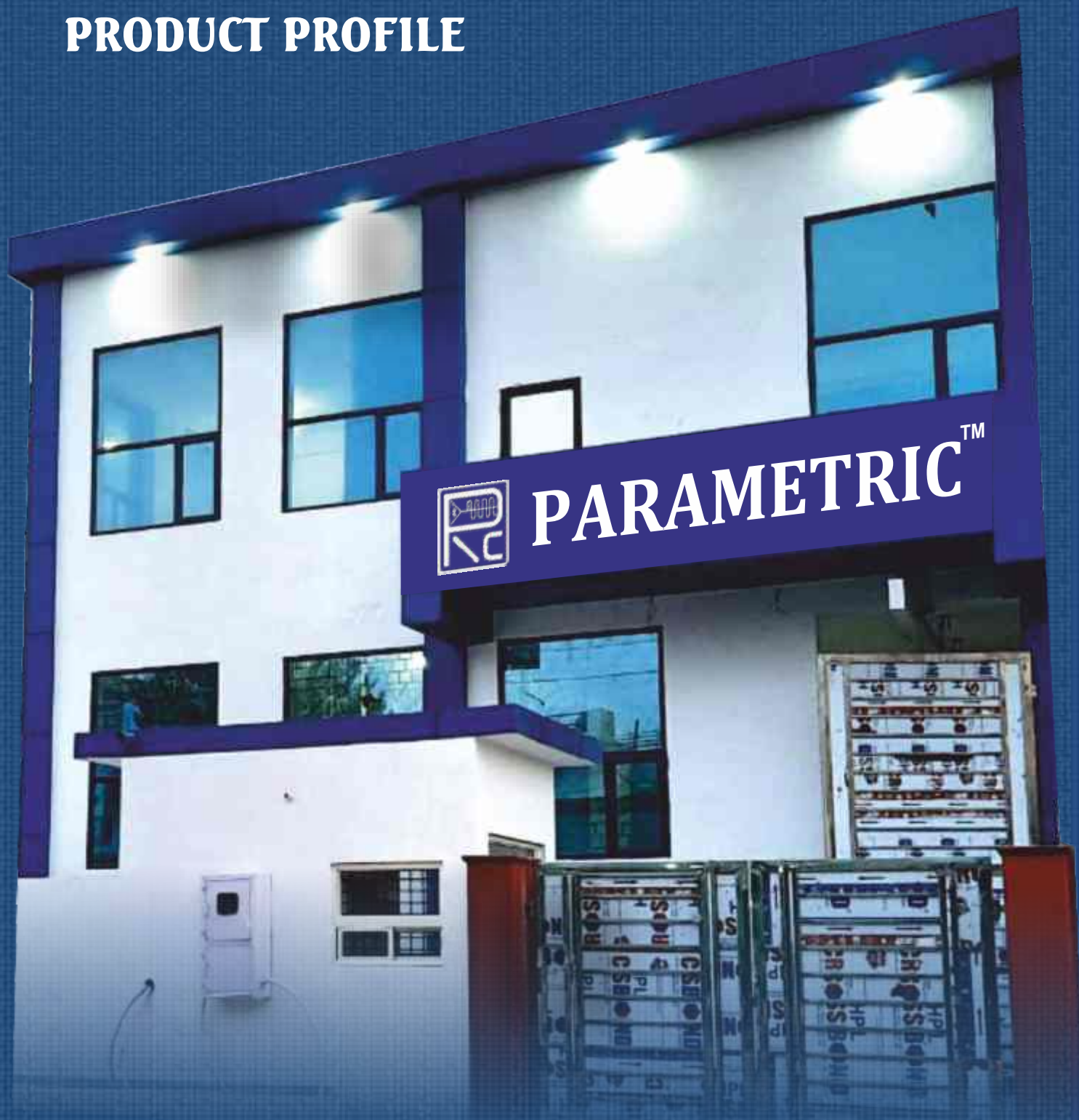


PRODUCT PROFILE



PARAMETRICTM RESEARCH & CONTROL

(An ISO 9001:2015 (QMS) Certified Company)

WE BUILD TRUST EVERYDAY BY MANUFACTURING QUALITY
PRODUCTS TO ENSURE SAFETY OF OUR CUSTOMERS



PARAMETRICTM RESEARCH & CONTROL

COMPANY PROFILE

ParametricTM Research & Control, briefly known as PRC, started its journey in 2005 by a dynamic team of qualified engineers having more than 20 years of technical expertise in the field of design and development of Electronics Instrumentation and Control Systems, founded by Mr. Abdul Rahim.

PRC is one of the leading manufacturers of microcontroller/PLC/PC based electronic instrumentation systems, data acquisition systems, and customized special purpose machines. PRC is committed to delivering a world-class Instrumentation and Control solutions to its clients.

MISSION

We at PRC have a mission to deliver the best in the class end to end solution for all Instrumentation and control needs. Our passion is to transform and build. We apply solutions that are simple, precise and easy to use in Instrumentation and Control Systems.

VISION

To provide quality Instrumentation to industries and laboratories. We do have an objective to emerge as a company of national and international reputation.

CEO'S MESSAGE



*It Has Always
Been Our
Endeavor To
Deliver The
Quality Products
To Our
Renowned Clients
and To
Undertake Most
Challenging Jobs
Of New
Developments.
Thanks for Being
A Part Of
Celebration Of
Our Success.*

Sincerely

Abdul Rahim
C.E.O.
Parametric
Research &
Control






OUR PRODUCTS

LEAKAGE TESTING SYSTEMS

PRC has adopted various leak testing methods, to detect the leakage in various types of automotive engineering and medical components. We provide the following advanced and versatile leakage testing methods:

1. PRESSURE DECAY LEAKAGE TESTING
2. DIFFERENTIAL PRESSURE LEAKAGE TESTING
3. VACUUM LEAKAGE TESTING

DECAY PRESSURE LEAKAGE TESTING SYSTEM	DIFFERENTIAL PRESSURE LEAKAGE TESTING SYSTEM	VACUUM LEAKAGE TESTING SYSTEM
		
The original dry-air method is pressure decay, in which the test part is pressurized and then isolated from the pressure source. Any decrease in pressure indicates the presence of a leak. Algorithms then convert pressure changes into an approximation of leak rate.	With this method, a leak-free reference volume is pressurized along with the test component. A transducer then reads the difference in pressure between the no leaking reference and the test component over time. This method is more precise and detects minor leakage than the pressure decay method.	Vacuum decay evacuates air from the test object. For this method, it is the loss of vacuum that indicates a leak, rather than loss of pressure. However, it does take more time to evacuate the air from an object than to fill it with high-pressure air, although the difference is minimal for the small volumes.

SALIENT FEATURES










- ✚ Portable, easy to use & user-friendly
- ✚ Menu driven HMI touchscreen display
- ✚ Measuring units in BAR & PASCAL both
- ✚ On-line graph plotting facility
- ✚ Rugged, robust with heavy duty performance
- ✚ Password protected
- ✚ Cost-effective and precise measurement of leak values

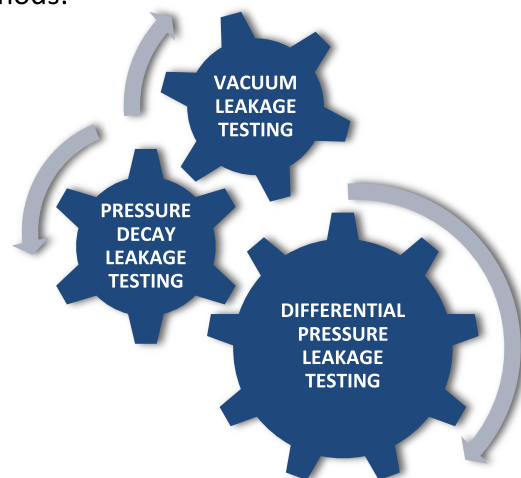
LEAKAGE TESTING MACHINES




PRC has adopted various leak testing methods, to detect the leakage in various types of automotive engineering and medical components. As discussed earlier, we provide the following advanced and versatile leakage testing methods:

- PRESSURE DECAY LEAKAGE TESTING
- DIFFERENTIAL PRESSURE LEAKAGE TESTING
- VACUUM LEAKAGE TESTING

FEATURES

-  Highly Accurate And Dependable
-  Quick Leak Detection
-  Multichannel Operation
-  Smart Pneumatic and Electronic Circuits
-  Easy Calibration Through Leak Masters
-  PC Interface Through RS232C And Ethernet
-  Provides Simple And Highly Effective Leak Test Methods



MUFFLER LEAKAGE TESTING MACHINE	CRANKCASE LEAKAGE TESTING MACHINE	CYLINDER HEAD LEAKAGE TESTING MACHINE
		



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FUEL FILLER LEAKAGE TESTING MACHINE



RG2 BODY LEAKAGE TESTING MACHINE



FUEL PIPE LEAKAGE TESTING MACHINE



FUEL NECK LEAKAGE TESTING MACHINE



FUEL TANK CLEANING MACHINE FOR AUTOMOTIVE VEHICLES



FLANGE LEAKAGE TESTING MACHINE



PERFORMANCE AND LEAKAGE TESTING SYSTEM



AUTOMOTIVE LIGHT LEAKAGE TESTING MACHINE









AUTOMOTIVE VEHICLE SPEEDOMETER LEAKAGE TESTING MACHINE



ASSEMBLY LINES

Parametric™ Research and Control have developed four complete assembly line projects naming Assembly Line for SBA BC with 3 sub-stations, Assembly Line for Wheel Carrier with 3 sub-stations, Assembly Line for Gear Shifter with 10 substations, and Assembly Line for Syringes.

SALIENT FEATURES:

-  Designed to suit the Indian Industrial conditions
-  Inexpensive in comparison to other solutions
-  Precision & accurate assembly
-  Reliable & dependable
-  User-friendly with standard warranty
-  Customized solutions available

ASSEMBLY LINE FOR SBA BC



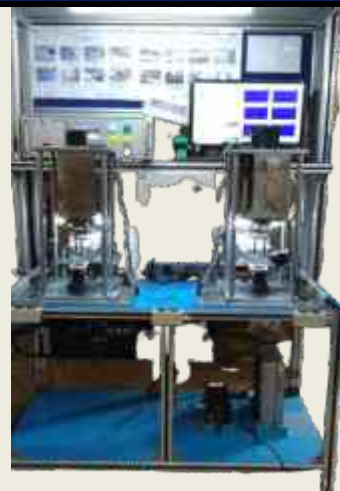
ASSEMBLY LINE FOR WHEEL CARRIER



ASSEMBLY LINE FOR GEAR SHIFTER



CAR AC WINDOW FORCE TESTING MACHINE







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TORQUE TESTING & CALIBRATION SYSTEM

PRC offers a microcontroller based digital display for its torque testing machines. The digital display is used to measure the output signal from the transducer and calculates that reading into a torque value that is displayed on the screen. A special version of digital displays is available for external stationary transducers. These displays are with bright LED and keypad to set the parameters

SALIENT FEATURES:

-  Rugged & robust design to suit Industrial environment
-  Easy handling & Connectivity
-  Dependable & long performance
-  Reaction type Torque Transducers



TORQUE TESTING MACHINE FOR GEAR SHIFTER	TORQUE TESTING MACHINE FOR CAR AC WINDOW	TORQUE TESTER FOR BOTTLE CAP
		
TORQUE TESTING MACHINE FOR AUTOMOTIVE MIRRORS	DIGITAL TORQUE INDICATOR	TORQUE WRENCH TESTER/CALIBRATOR
		



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✦ PRODUCTION TARGET COUNTERS

We offer an innovative range of Production & target Counters Suitable for Production lines to display Target Production, Actual Production / Current production & Difference with advance technology-based hanging type boards. These counters are equipped with a large digital display (LED type) which has remote visibility with remote type keypad for Data setting / Reset. We also offer On-line production & target counters.

SALIENT FEATURES:

- ✦ User-friendly construction
- ✦ Easy to install & operate
- ✦ Protection through user password
- ✦ Sturdy & rugged design for industrial environments
- ✦ Indigenously developed & manufactured
- ✦ Sound service backup
- ✦ Optional designs of one line, two lines, 3 lines and more

DIGITAL PRODUCTION COUNTER	TARGET VS DIFFERENCE COUNTER
	
HOURLY/SHIFT PRODUCTION COUNTER	TARGET PRODUCTION COUNTER
	



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■ PRESSURE TESTING AND CONTROLLING SYSTEMS

PRC has designed & developed a complete solution for heavy presses (Pneumatics) manufacturers & users for their pressure controlling problems. It is very challenging to maintain a predetermined pressure in the presses to produce a good quality product. Many times product is rejected due to increase or decrease in pressure which costs to manufacturer very high.

SALIENT FEATURES:

- Designed to suit the Industrial environmental conditions
- Inexpensive in comparison to other solutions
- Precision & accurate pressure setting
- Reliable & dependable
- User-friendly with standard warranty
- Customized solutions available

PRESSURE CONTROLLER FOR COMPRESSORS



PRC PRESSURE CONTROLLER 01

PRC PRESSURE CONTROLLER 02



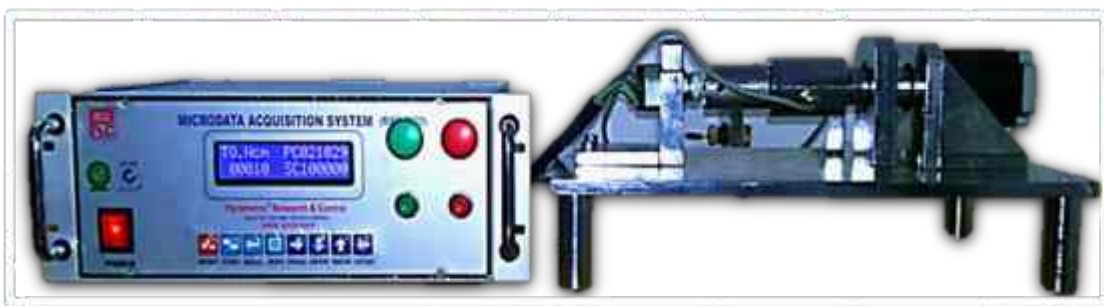
● LABORATORY TESTING & MEASUREMENT SYSTEMS

PRC is one of the leading manufacturers of laboratory Testing & Measuring Instruments. These are suitable for the lab of any manufacturing company or testing laboratories, test houses, where various tests are conducted on different parts. PRC offers complete system & machines for various tests conducted in labs. Few examples are given,

- Data Acquisition systems (HMI Touchscreen based)
- Data acquisition systems (LCD screen type)
- Impact tester (Izod or Charpy type)
- LVDT & Displacement indicators
- LVDT calibration jigs
- PLC (Microcontroller type digital)
- Load testing equipments & fixtures etc.
- Endurance tester for determination of any part/components life cycle

PRC can cater any of such requirements efficiently to meet the application. These testing machines or systems are designed & manufactured exactly as per the customers' requirement hence no standard models available.

ENDURANCE TESTING MACHINE



DATA ACQUISITION SYSTEM – LCD TYPE



DATA ACQUISITION SYSTEM – HMI TYPE



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LVDT CALIBRATION JIG



MICROCONTROLLER BASED PLC



LVDT & DISPLACEMENT INDICATOR



DIGITAL IMPACT INDICATOR





SPECIAL PURPOSE MACHINE

Special purpose machines are a very prime category & segment for production range of Parametric™ Research & Control. PRC offers a wide range of machines & systems under this segment to meet the varied requirements of customers right from the using them in production lines as well as in the laboratories. These Special purpose machines can be used for any designated application no matter how critical it is. PRC has designed, developed and manufactured no. of machines for automotive component/parts manufacturers, construction industries & pharmaceutical industries, who are using them for their very special purposes. Under this segment, PRC also offers suitable jigs & fixtures which are beautifully designed.

CUSTOMIZED FLOW TESTING MACHINE	PULL FORCE TESTING MACHINE
	
SYNTHETIC BLOOD PENETRATION TESTER	FACE MASKING BREATHABILITY TESTER
	



LIGHT TESTING PANEL



HORN TESTING MACHINE



SOLDERING/SEQUENCE PANEL



BATCH WEIGHING SYSTEM - HMI BASED



BATCH WEIGHING SYSTEM - LCD BASED



TIP FORMING MACHINE



FLASHER TESTING SYSTEM - HMI BASED



FLASHER TESTING SYSTEM - LCD BASED





LOAD/FORCE TESTING & MEASUREMENT SYSTEMS

Load testing & measuring systems are one of the prime segments of Parametric™ Research & Control's manufacturing range. PRC offers its wide range of Load cells & Digital Load Indication system for diversified Industrial & Laboratory use with multiple applications, Load sensors are strain gauge based for accurate measurement of the load. PRC has extremely rich expertise in designing & manufacturing Load cells & Indicators for years. These load measuring systems are Rugged & Robust in construction & High durability with excellent performance.

- Load cells (various types)
- Load data acquisition systems
- Load indicators (digital & computerized)
- Load testing fixtures
- Force testing machine for car AC window (fully computerized)

FORCE TESTING MACHINE FOR CAR AC WINDOW



AMT GEAR SHIFTER PERFORMANCE TESTING MACHINE



DIGITAL LOAD INDICATOR 01



DIGITAL LOAD INDICATOR 02



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DIGITAL LOAD INDICATOR 03



DIGITAL LOAD INDICATOR 04



DIGITAL LOAD INDICATOR 05



LOAD DATA ACQUISITION SYSEM - HMI BASED



LOAD DATA ACQUISITION SYSTEM - LCD BASED



LOAD CELLS



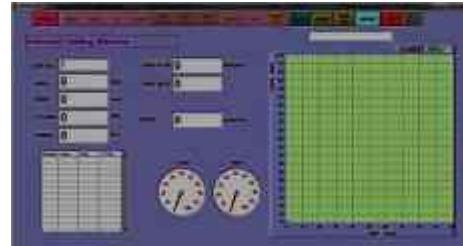
UNIVERSAL TESTING MACHINES

PRC make computerized UTM provides a relatively inexpensive way for determining the Tensile, compression, shear strength and elongation of a variety of raw materials such as rubber, leather, fabric, plastics, Belts, wires and various objects used in medical line etc. They are based on the constant rate of traverse principle in which one end of the test specimen is held in a stationary grip, (or place on the compression plate) while the other end is made to move at a known fixed speed with the help of motor, two gearboxes and dual screws arrangement.

The load exerted on the stationary grip is sensed by a load cell and indicated by a digital load indicator and also indicated with a graph on the monitor of the computer.

SALIENT FEATURES:

- ✚ Unit Conversion.
- ✚ Bar graph facility & Printer Port.
- ✚ Pre-Load setting & Auto Breaking,
- ✚ Auto Calibration for Load & Displacement
- ✚ Over Load and Over Travel Protection
- ✚ Drives Interfacing facility for Speed control
- ✚ Statistical Report up to 10 Tests with Mean Value
- ✚ Standard Deviation & Co-efficient of Variation.
- ✚ The following tests can be conducted precisely and graphs can be plotted with the computerized model such as Tensile Test, Compression Test, Shear Test & Bending Test, Flexural Strength Test, Peel Test.



PC BASED UTM	DIGITAL UTM 01	MEDICAL UTM EQUIPMENT
		



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PRC UTM CONTROLLER 01	PRC UTM CONTROLLER 02	PRC UTM CONTROLLER 03
		
BURSTING STRENGTH TESTER	PRC DIGITAL UTM 02	COMPUTERIZED UTM
		



⊕ CRANE SAFETY DEVICES

We have developed dedicated instrumentation systems for the entire safety of cranes. As we are aware of the fact that the operation of any crane is very critical and measures are needed to be taken for the safety of crane as well as for the safety of people around.

PRC offers the following crane safety devices:

- ⊕ Crane Safe load Indicator
- ⊕ Crane load cell
- ⊕ Crane boom length sensor
- ⊕ Crane sensor
- ⊕ Crane tensiometer
- ⊕ Crane angle sensor

SAFE LOAD INDICATOR	CRANE LOAD CELL	CRANE BOOM LENGTH SENSOR
		
CRANE SENSOR	CRANE TENSIO METER	CRANE ANGLE SENSOR
		

☀ AUTOMOTIVE LIGHT TESTING SYSTEMS

PRC offers an exciting product for Automotive Light Manufacturers, who are in the field of manufacturing headlamps, tail lamps, turning lights, reflectors, parking lights or lights for interiors. PRC offers complete system for most of the Industrial recognized tests in compliance of BIS, such as,

- Electrical Testing of bulbs
- Wire sequence testing
- Wattage testing
- Performance Testing

These machines are designed using optimum quality factor inputs. The offered tester is extremely cherished among the clients for its diverse features like durability, rigid construction, high strength and cost-effectiveness. This is very much suitable for an assembly line of Auto light manufacturing units.

Salient features:

- ☀ Highly reliable & dependable
- ☀ Microcontroller based Digital controller
- ☀ Accurate measurement
- ☀ User-friendly operation
- ☀ Protection through user password
- ☀ Process status indication



OUR SERVICE COMMITMENT

As a team, our collective goal is to build long-lasting relationships with our customers. Our Sales and Service team acts as an ambassador, taking complete ownership from inception to completion of the work. We take pride in serving our customers 24X7. Our people demonstrate the highest level of professional excellence and continuously innovate to build robust solutions. Our leadership is committed to keeping a culture of service excellence which is benchmarked with International standards.

THE QUALITY CERTIFICATION

PARAMETRIC is a registered ™ company and is awarded an I.S.O. 9001:2015 (QMS) certification from PCMS. We are registered with National Small Industries Corporation (NSIC), and Small Scale Industries (SSI).



OUR VALUED CUSTOMERS

We are proud to have a large list of satisfied customers who are rewarding us with repeated business opportunities, to name a few:



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