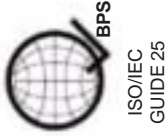


# PGATECH GROUP

Fax Inquiry: (02) 374-4338



School: \_\_\_\_\_ Contact Tel. Nos. \_\_\_\_\_  
 Location: \_\_\_\_\_ E-mail: \_\_\_\_\_  
 By: \_\_\_\_\_ Fax No. \_\_\_\_\_  
 Position: \_\_\_\_\_

Yes, we are interested.  
 Submit Proposal  
 Our need is immediate

Send more information  
 UTM  
 We need a UTM by \_\_\_\_\_

Please contact us  
 Other equipment line

**Please note:**

You may also e-mail this inquiry to:

[pgamain@pgatech.com.ph](mailto:pgamain@pgatech.com.ph)

or send by mail to:

c/o MANOLO K. MORALES  
 2F PGATech Building  
 85 Kamuning Road, Quezon City

**Our Contact Person:**

NAME: \_\_\_\_\_  
 POSITION: \_\_\_\_\_  
 TEL. NO. \_\_\_\_\_

**Please visit our website at [www.pgatech.com.ph](http://www.pgatech.com.ph)**

## A TRUSTED NAME IN MATERIALS TESTING

For over Twenty Years now, *Philippine GEOANALYTICS, Inc. (PGAI)* has maintained its lead as the Premiere Construction Materials Testing Laboratory in the country and the very first ISO Guide 25 Accredited Materials Testing Laboratory.



After its initial start, PGAI has engaged in the manufacture of its own equipment for Laboratory Testing and Field Soils exploration in a fully equipped fabrication and machine shop using local fabrication knowhow merged with US Digital Instrumentation that gives accuracies exceeding ASTM E4 standards. All Hydraulic Powerpacks are imported from the US and is the same make and model used by leading US Testing Equipment Manufacturers.

The PGATech Group boasts of a Structural Design Organization, a Calibration and Metrology Laboratory as well as a Non Destructive Testing Laboratory to assure structural adequacy, accuracy and quality in the manufacture of test equipment.

Now, these resources, expertise and experience are directly translated into our equipment manufacturing procedures to offer Quality Testing Equipment for Engineering Schools and Universities.

### OTHER MATERIALS TESTING EQUIPMENT OFFERED:

- Concrete Compression Testers
- CBR/Unconfined Compression Load Frame with Variable Speed Motors
- Concrete, CBR and Compaction Molds
- Compaction Hammers (Standard & Modified)
- Calibrated Load Rings (various ranges)
- Testing Equipment accessories

### PGATech Group of Companies:

- PHILIPPINE GEOANALYTICS, INC. (ISO Guide 25)
- EM²A PARTNERS & COMPANY (ISO 9001)
- PETER GROUND IMPROVEMENT, INC.
- PGA CALIBRATION & METROLOGY LABORATORY (ISO Guide 25)
- NON DESTRUCTIVE TESTING LABORATORY, INC.
- PGA PRODUCT & TESTING LABORATORY
- PGA GEOPHYSICAL
- GPS GEOMEASUREMENT, INC.
- GDI³-GEOSPATIAL DATA INTELLIGENCE INTEGRATORS

**COME VISIT US: #85 Kamuning Road, Quezon City**



[www.pgatech.com.ph](http://www.pgatech.com.ph)

**A Truly Versatile  
 Universal Testing Machine (UTM)  
 at a Very Affordable Price.  
 For Educational Institutions...**

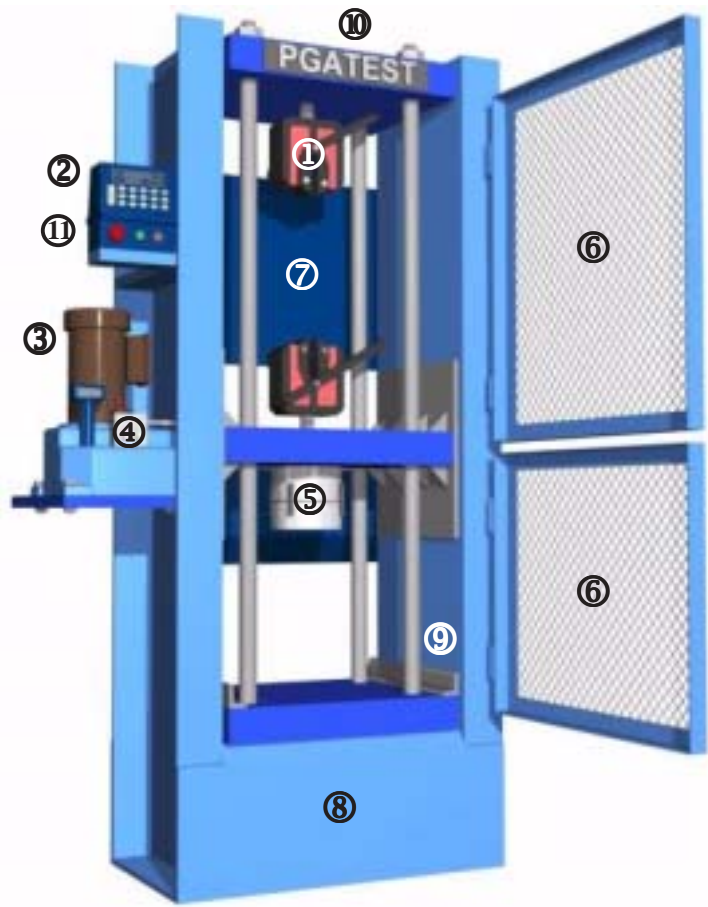


*...from Philippine GEOANALYTICS, Inc., the leader in Construction Materials Testing and the very first ISO Guide 25 Accredited Testing Laboratory.*

*Over 20 years of experience in materials testing went into the design of this PGATEST Universal Testing Machine which meets or exceeds ASTM Testing Standards in accuracy and rigidity.*

Patent applied for

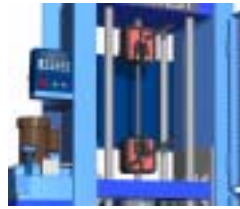
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## PGATEST UTM FEATURES

1. Mechanical Grips 30,000 lbs to 60,000 lbs (optional) capacity
2. US Manufactured Digital Control Panel & Pressure Transducer surpass ASTM E-4 requirements for accuracy for Tension & Compression.
3. US Manufactured Hydraulic Powerpack delivers 10,000 psi (70 MPa) of controlled pressure and used by leading US Testing Equipment Manufacturers.
4. Control Valve delivers variable controlled rate of loading with micrometer valve control.
5. Spherical Bearing Plate (*Hardened Steel*) for Concrete Compression Testing.
6. Expanded Metal Swingout Door Protects Operators and observers from accidents and injuries.
7. Rear Plate Protective Cover for maximum safety for Tension and Compression Testing.
8. Fully enclosed housing protects Hydraulic Jack from dust.
9. Guide prevents jamming and scatter of Concrete Debris.
10. Overtravel cutoff/limit switch.
11. Key Operated Power on lock.

## TEST CAPABILITIES



### Rebar Tensile Test

Test Rebars and Flat sheets in accordance with ASTM A-317 Standards.  
Standard Grips will test up to 30,000 lbs. up to 12mmØ.  
Optional Grips can be ordered to raise capacity to 60,000 lbs. and 25mmØ rebars without equipment modification.

### Concrete Compression

Test standard concrete cylinders based on ASTM C-39 and cubes (with optional attachment) up to maximum 225,000 lbs. (55 MPa) Compressive Strength on 6" Cylinders).

Operator protection is ensured with expanded metal protective enclosures.



### Flexural Testing of Concrete Beams

Flexural Testing of Beams under ASTM C-78 can be performed with optional attachments without any major retooling.

### Rebar Bend Tests

Rebar Bend Tests likewise can be performed with a simple test fixture (order separately).

## ENGINEERING

### CADD

CADD Computer Aided Design and Drafting by EMPA Partners & Co. (The first Filipino Consulting Firm awarded ISO 9001 Accreditation).  
The Structural Framework is subjected to 3D Stress Analysis to ensure adequate Factor of Safety.



### Force Calibration

Using 600,000 lb Calibration Proving Ring Traceable to NIST. PGA CALAB - our Calibration and Metrology Laboratory handles calibration of load measuring system including the pressure transducer to assure accuracy meets or exceeds ASTM E-4 requirements.

### Weld Testing

PGA NDTL - Non Destructive Testing of Welds and Connections are performed on the Load Frame to assure Structural Integrity of critical welds and connections.

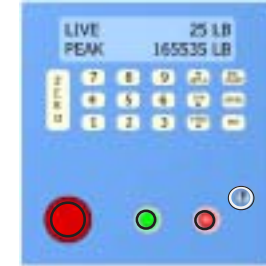


### Load Frame Fabrication

PGA Fabrication and machine Shop for the production of all machined components and quality fabrication and welding of equipment frame.



## LOAD CONTROL PANEL FEATURES



*Display while specimen under test: Live Load and Load Rate Pointer between High and Low Rate Limits.*

- Tension and Compression Loads.
- Display Live Load and Peak Load numerically.
- Indicate Load Rate with a bar graph. The rate pointer moves between its limits. Decreasing the rate moves the pointer right.
- Adjust the upper and lower rate limits depending on the testing requirements. Ex: ASTM C39 20-50 psi/sec.
- Activate average load rate analysis to calculate and report actual test speeds.
- Select between engineering units of Lb, N, KN and Kg.
- Define and detect the end of test with the Sample Break Detector.
- Auto-Test-Reset which automatically enables the indicator for the start of the next test without requiring operator interaction.
- Store up to 360 test results to permanent memory. Results include Date, Time, Specimen ID#, Peak Load, Average Load Rate plus a statistical summary of Peak Load.
- Activate auto-Store to automatically transmit the results of each test out the serial communications port.
- Transmit results to a printer or remote computer through the serial communications port.
- Generate Load/Stress vs. Time curves on a remote computer (option) by transmitting raw XY data to WinCOM Plus Data communications program (option).
- Store up to four load cell calibrations for multiple load cell systems. The load calibration algorithm allows up to 5 calibration points per cell with piecewise linear fit between points. Accuracy exceeds ASTM E4 Standards and in general is better than 0.5% from 1% of full scale to full scale.
- Coded access to calibration routine using a numeric code.
- Digital output activates at sample break or machine overload.

## SERVICE AND SUPPORT

We offer complete training and support for our product lines:

- Training of your Lab personnel during commissioning of equipment.
- Initial setup calibration and annual calibration can be performed by our calibration personnel.
- Service and repair can be done by our experienced technicians available on call.
- Operator safety training of laboratory personnel in the proper use of the equipment shall be done at site by our experienced Laboratory Engineers and Technicians.
- Stock spare parts are maintained to reduce your equipment downtime.
- Regular Calibration can be performed by PGA Calab, our Calibration and Metrology Laboratory.