CONTROLS is the specialized total provider for the Construction Industry

CONTROLS have been active in the testing equipment industry since 1968. We have supplied our equipment and testing systems around the whole word. Continuous product development always keeps us in the head, our innovations are milestones for our clients. Our commitment concerns the three basic Business Units: Concrete and cement / Roads / Soil mechanics

Within this complex and demanding activity we have developed a complete range of new and innovative Testing Systems which incorporate the “CVI-tech” concept that has the aim of manufacturing and delivering products/services capable of maximizing value to the Clients.

CVI-TECH CONCEPT
CUSTOMER’S VALUE DRIVES THE INNOVATION
CVI-tech is an innovative distinctive concept which leads CONTROLS’ development strategy. New products, technologies and services feature the MAXIMUM POSSIBLE VALUE for the customer. As a result of the CVI-tech philosophy, CONTROLS propose:

> Best quality/price ratio
> Conformity to Standards
> Quality and repeatability of industrial production
> Ergonomics and design
> Qualified after sales service to maintain the highest efficiency of machines even with intensive use
> Modular and expandable systems to allow an upgrade to a higher class and adding new functions even after long time, thus allowing to spread the initial investment over different phases
> Maintain value in time

PAVELAB® SYSTEMS
PAVELAB® SYSTEMS is the Asphalt Division of CONTROLS. From sample preparation to tests for mix design determination and research, from durability tests to production and process control, PAVELAB® SYSTEMS is able to cover everything with a range of high tech products (see page 3).

AUTOLAB is a complete range of machines and software for static and dynamic soil test automation that do not require user intervention during all the test.

The new COMPACT LINE Automatic Concrete Compression testers

The new COMPACT LINE Automatic Concrete Compression testers feature an integrated, compact and functional design combining the range of solid frames with the exclusive high performance Power Control Systems AUTOMAX and PILOT.

Wykeham Farrance is the Soil Division of CONTROLS. AUTOLAB is a complete range of machines and software for static and dynamic soil test automation that do not require user intervention during all the test.
Determination of the STATIC MODULUS of ELASTICITY

The new AUTOMAX E-Modulus, Power and Control Console which fully satisfies the new EN under development

The Elastic Modulus is a fundamental parameter to verify the behavior of building structures under load, above all in seismic areas and for tall buildings. This determination, which is more and more requested by the engineers, is performed conforming various national Standards as DIN 1048/1, ASTM C469, BS 1881:121, ISO 6784, UNI 6556 etc.

All these Standards have in common the basic determination but differ for the number of cycles, cycle waves shape, accuracy verifications etc.

The CEN Committee is now developing a new EN which homogenizes the different approaches of the national Standards and increases the reliability of test results. CONTROLS is proposing the new AUTOMAX E-Modulus that, connected to a suitable frame with transducers, fully satisfies the new requirements thus permitting to perform the test cycles conforming to all above mentioned Standards.

> The test cycle with closed loop digital feedback, is automatically performed by pressing the start button.
> FLOW SHARING Technology for the automatic execution of loading and unloading cycles.
> Specific software for the determination of the MODULUS OF ELASTICITY and POISSON’S RATIO.
> Connect to laboratory network via LAN port.

Elastic Modulus test performed according to customized sequence of steps to fulfill any test procedure.

Elastic Modulus test performed on a cement 40x40x160 mm prism.
Pavelab Systems is the asphalt division of CONTROLS from whom it has inherited the consolidated know-how and the qualified experience in this sector with more than 40 years of partnership and collaboration with the academic world and major international laboratories, as well as an active participation in trade associations and Standards organizations.

Pavelab Systems is able to cover everything with a range of high tech products that are coming from a long presence in this specialized sector and from advanced proprietary technologies in static and dynamic systems, as a result from years of investment in research and development with a team of highly qualified experts.

Pavelab Systems, with its team of researchers and skilled experts, is working side by side with our clients to develop always better quality and technologies in the supply of advanced testing systems on pavement materials.

Also the Pavelab Systems product line incorporates the “CVI-TECH concept” which has the aim to manufacture and deliver products/services suitable to maximize client value.

### 75-PV50A05
PAVELAB, Automatic closed-system asphalt analyzer for separation and extraction of bitumen, filler and aggregates from asphalt samples by use of solvents
- Fully automatic test cycle:
  - Washing the asphalt sample (up to 3.5 kg) by solvent and ultrasonic motion with simultaneous heating and rotation of the drum lined with screening mesh
  - Automatic recovery of solvents by continuous distillation process
  - Easy binder recovery for further tests such as penetration, softening point, etc.
  - Reduced extraction time
  - No toxic fumes
  - High extraction capacity up to 200 g of filler for each extraction
  - Automatic oven drying after extraction

### 77-PV33B05
PAVELAB DWT Wet and Dry double wheel tracker
- Meets or exceeds AASHTO and EN Standards
- Available versions for testing in water, in air and combined
- Massive use of stainless steel in the machine construction, not limited to parts in contact with water
- PC interface
- Double wheel with single-wheel testing option
- Fast and easy motorized crosshead positioning with automatic hydraulic clamping
- Large testing chamber
- Fully stand alone system, hydraulic pump and pressure regulator included
- Complete range of accessories and test software conforming to EN, AASHTO and ASTM Standards
- Software drives the operator through the test execution

### Other versions servo-pneumatic 15 kN and servo-hydraulic 30 kN also available

### DYNA PAVE
Serve-hydraulic dynamic testing system 130 kN cap.
- High performance double-acting hydraulic actuator for testing frequencies up to 70 Hz
- Fatigue-rated servo-hydraulic actuator with internal displacement transducer
- Fast and easy motorized crosshead positioning with automatic hydraulic clamping
- Large testing chamber
- Fully stand alone system, hydraulic pump and pressure regulator included
- Complete range of accessories and test software conforming to EN, AASHTO and ASTM Standards
- Software drives the operator through the test execution

### Other versions servo-pneumatic 15 kN and servo-hydraulic 30 kN also available

### DUC T I M E T E R
81-PV08B02
DUC I -Meter High Performance Ductility Tester
- N°4 tension line (bioplastic capacity) x 1500 mm
- PC controlled with dedicated software
- Including force measuring system up to 300 N for each line by load cells (not included)
- Temperature range from 5 to 25°C ±0.2°C
- Closed loop PID temperature control system
- Automatic clean thermostatization system, resulting in a very strict temperature control
- Speed range from 1 to 100 mm/min
- Automatic high carriage return speed 210 mm/min for more productivity
- Elongation measurement by optical system

### OTHER VERSIONS AVAILABLE:
- Servo-pneumatic 15 kN cap.
- Servo-hydraulic 30 kN cap.

### PAVELA B® SYSTEMS products also include:
- Asphalt binder analyzer by ignition method
- Rolling Thin Film Oven
- Ring and Ball apparatus
- Gyratory Compactor
- Multi-size slab compactor
- Large capacity hot asphalt mixer
- Asphalt binder analyzer by ignition method
- Large capacity hot asphalt mixer
- Multi-size slab compactor
- Asphalt binder analyzer by ignition method
- Rolling Thin Film Oven
- Gyratory Compactor
New tasks and new faces in the Company

Tiuziaino Ferrario

Tiziano Ferrario is now appointed as Sales and Marketing Executive of CONTROLS Group.

Alessandro Magnetti

He has joined the young team of Product Managers and he is in charge of the Soil Mechanics business unit.

Elisa Granelli

Elisa Granelli is the new Marketing and Communication Specialist. Above all she is looking after our web site and all the other web marketing activities.

Alessandro D’Amico

It is more than one year that Alessandro D’Amico is in charge of Equipo de Ensaye Controls S.A. de C.V. in Mexico, as Commercial Manager of the branch.

Andrea Di Iorio

Based at Controls Testing Equipment Ltd in United Kingdom, he is now appointed as Sales Area Manager for some African markets.

Main EVENTS 2013

BAUMA

Munich – Germany

19-21 April

bauma.de

30th International Trade Fair for Construction Machinery, Building Material Machines, Mining Machines, Construction Vehicles and Construction Equipment. Meet us on our booth 121 in Hall C1 where you can find on display our Wykeham Farrance systems.

LIBYA BUILD

Tripoli – Libya

19-23 May

libyabuild.com

The 9th International Building & Construction Exhibition. Meet us at the Italian Pavilion at the Tripoli International Fairgrounds.

AUTOSTRADA-POLSKA

Kielce – Poland

21-24 May 2013

targakielce.pl

19th International Fair of Road Construction Industry. CONTROLS POLSKA is exhibiting at booth F-16 in Hall F. You can find on display many equipment from our PAVELAB® SYSTEMS asphalt and roads division.

BUILDING TEST EXPO

Cologne – Germany

11-13 June

buildingtestexpo.com

Building Test Expo is an international exhibition and technical forum dedicated to effective research, testing and certification throughout the building supply chain. The event promotes increased innovation, quality, safety and sustainability in buildings & building materials through improved and advanced testing technologies and processes and it is at the 1st edition.

ICSMGE

Paris – France

2-6 September

Pans2013.icsmge.org

The 18th International Conference on Soil Mechanics and Geotechnical Engineering. The main theme of the Conference is “Challenges and innovations in Geotechnics”. We shall be there with our Wykeham Farrance systems. See you at our booth n°45.