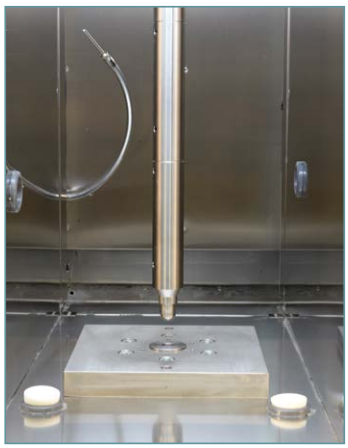
MATEST

B230 - DTS 30

30 KN SERVO HYDRAULIC DYNAMIC TESTING SYSTEM (DTS-30)

COMPACT, FULLY INTEGRATED AND USER FRIENDLY

The DTS-30 is a servo hydraulic testing machine utilizing digital control of a high performance servo valve to provide accurate loading wave shapes up to 100 Hz. The machine can be operated intension, compression dynamic loading and is suited to testing a diverse range of materials It allows the characterization of the bitumen from a performance point of view and the realization of a high number of analyses according to the most recent test standards. A universal machine that is easily suited to user needs.



Motorized contrast shaft that is used to modify the space in the chamber according to the test and sample used.

DYNAFLOW™ HPS with a variable frequency (VFB) with hydraulic power 2.2 kW. It allows reduction in noise and storage of heat with consequent energy and cost saving.

CDAS2 – Control and Data aqusition system of latest generation, integrated and equipped with 16 entrance channels on 4 axes.

Control and Data aquisition system (CDAS2) located under the test chamber. It houses the cables and trasducers limiting the footprint of the machine and keeping the test area, tidy.

MAIN FEATURES

- Reduce footprint.
- Rigid two column load frame.
- Portable temperature control unit.
- Fully configurable to suit a large range of testing applications.
- Digital servo hydraulic control.
- Dynaflo HPS variable frequency drive (VFD) provides dynamic speed control of the pump motor ensuring quiet operation.
- 4 axis control and 16 channels data aquisition as standard.

TECHNICAL SPECIFICATIONS

Load frame
- Horizontal space 600 mm
- Vertical space 800 mm

Servo actuator
- Capacity ± 30kN, dynamic ± 25kN
- Frequency: up to 100Hz
- Stroke: 100 mm

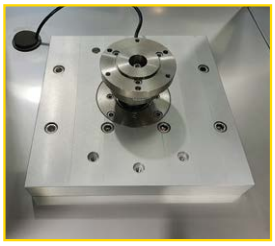
Hydraulic Power Supply
- Pressure: up to 210 bar, user defined
- Flow rate: 7.5 litres/min
- Dimensions: 650(h) x 550(l) x 450(p) mm

Power supply: 230V 50-60Hz 1ph 2.5kW
Dimensions: 2100x1800x800 mm (with temperature controlled cabin)
Weight: 650 kg (with climatic chamber)

DTS-30

Was designed with the aim to realize a universal and dynamic machine that is easily versatile, reliable and with excellent performance.

DETAILS MAKE THE DIFFERENCE



Load applied from below, 30 kN static, 15 kN dynamic, makes the machine universal for performing different tests.
Servo hydraulic actuator with labyrinthine manor pads that reduces the clutch and keeps the low temperature, improving the useful life.

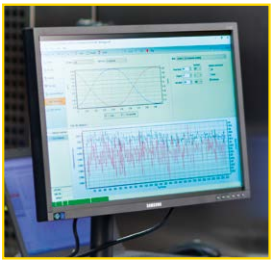
DYNAFLO™ HPS system variable frequency (VFB) allows the regulation of the pump speed. It allows the reduction in power or the shutdown of the engine when the pump oil flow is higher than the real needs.

Climatic chamber is separable. It can be easily removed for servicing or upgrading.

The frame is incorporated in the test chamber. It provides grater workspace and conditioning of the samples.

Sampling rate up to 200.000/s;
simultaneous sampling of all channels;
16 analogh channels (±10 Volt).
Oversampling up to 64 times (preset at 8).
Automatic recognition of transducers and upload of calibration files.

The sampling mode allows the user to perform any kind of test without a real sample using a configurable sample that simulates the behaviour of a viscoelastic material.



TESTLAB, A NEW APPROACH

Testlab is an open and programmable architecture. Our engeneers have carefully analyzed the most important international standards programming consequently the Method File thanks to TestLab Test Designer. In other words, with TestLab software, any kind of test can be designed, cloned and/or modified by the user. The user is no longer limited to the test configuration established at the time of purchase; the possibilities are limited only to her/his ability and imagination.

TESTLAB SOFTWARE

- Suite equipped with pre set Method File.
- Ability to create customized Method File.
- Software and open architecture with possibility to verify calculation and results.
- Post elaboration integrated function with Excel data.
- Standard test report and personalized by the user.
- Customization and display in real time of the trasducer measurement.
- Flexibility and user friendly, clear information on the results and high analytical skills.
- Complete access to data and graphs for advanced users.