



B265
SMARTPULSE ALL-IN-ONE
18 KN ELECTRO-MECHANICAL DYNAMIC TESTING SYSTEM

SmartPulse is an electro-mechanical servo-controlled dynamic testing machine utilizing digital control of a **high-performance electro-mechanical actuator**. It is engineered to deliver precise testing capabilities across tension, compression dynamic loading and is suited to testing a diverse range of materials such as asphalt and other construction materials. This versatile functionality **reduces the need for multiple testing machines**, optimizing resource utilization.

The machine is provided with a **gearmotor**, so it doesn't require the need for external compressor. Unlike traditional hydraulic systems that consume large amounts of energy, SmartPulse's electro-mechanical technology minimizes energy consumption without compromising accuracy.

SmartPulse is complemented by **Pavetest's CDAS2 digital controller and TestLab software**, offering comprehensive integration for seamless operation and precise data analysis.

MAIN FEATURES

- Integrated climatic chamber with powerful recirculation fans, ensuring uniform temperature distribution.
- Users can easily monitor and adjust temperature settings via PC or thermoregulator.
- Compact, fully self-contained, precision engineered unit.
- Precision electro-mechanical actuator (silent operation).
- Fully configurable to suit a large range of testing applications.
- A gull-wing door offering a wide test area with three accessible sides.

TECHNICAL SPECIFICATIONS

Load frame

- Between Columns 380 mm
- Vertical Space 778 mm

Servo actuator

- Actuator Stroke 50 mm
- Frequency up to 100 Hz
- 12 kN Static load
- 18 kN Dynamic load

Temperature range: 2 to 60 °C (thermoelectric unit)
 -10 to 60 °C (refrigeration unit, model B265-01)

Power supply: 230V, 50Hz, 1ph, 10 A
 110V, 60Hz, 1ph, 19 A

Dimensions: 1900(h) x 1000(d) x 850(w) mm

Weight: 380 kg approx.



SMART DESIGN

- Electro-mechanical unit. The machine applies static or dynamic waveform loading either in load or displacement control to a specimen.
- The system comprises a load frame, a load cell, Control and Data Acquisition System (CDAS) and an insulated chamber.
- Portable refrigeration unit. We offer several models of refrigeration unit, with different temperature ranges, to cover a number of international testing standards.



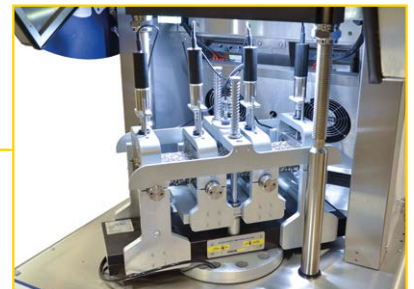
Powerful re-circulation fans.



The small door offers easy access to the chamber without temperature dispersion.



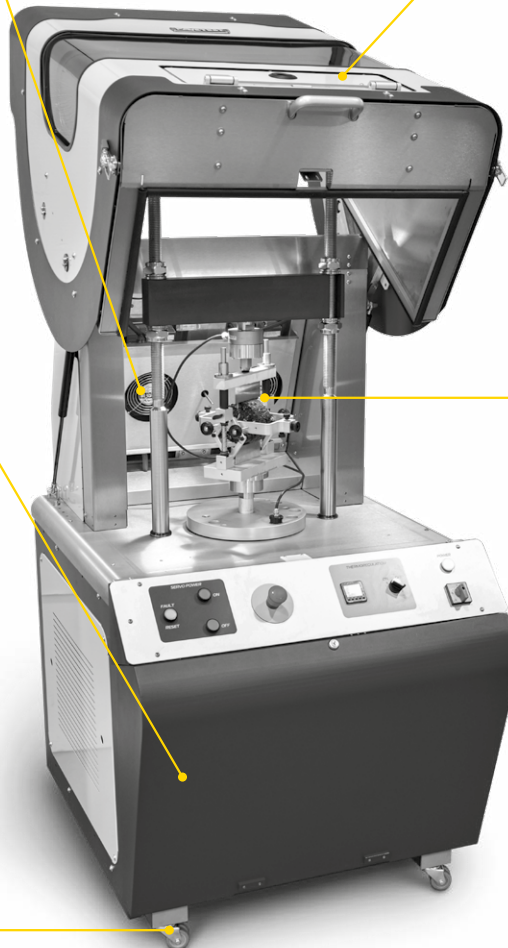
Control and Data Acquisition System located underneath the testing chamber.



Four-Point bending fitted on the machine.



4 wheels for an easier placement and movement.



Ethernet, USB type B and Serial ports for connection.