

## B200

### AMPT/SPT Asphalt Mixture Performance Tester

The Pavetest AMPT is a servo-hydraulically controlled testing machine specifically designed to perform the three asphalt tests developed under NCHRP Projects 9-19 and 9-29; Dynamic Modulus, Flow Number and Flow Time.

It is also the prescribed equipment in AASHTO TP 79-09 Standard Method Test for Determining the Dynamic Modulus and Flow Number for Hot Mix Asphalt (HMA) using the Asphalt Mixture Performance Tester (AMPT).

In addition, the Pavetest AMPT can also perform Direct Tension Cyclic Fatigue, Indirect Tensile Dynamic Modulus, Incremental Repeated Load Permanent Deformation, Semi-circular bend, and Overlay Testing of Asphalt Mixtures.

The Pavetest AMPT is underpinned by Pavetest's leading edge CDAS digital controller, TestLab software and a full complement of accessories, hardware and software in perfect unison.

The machine includes:

**B205** 8 Channel Control and Data Acquisition System (CDAS) & TestLab software (see page 104)

**B220-02** 30 mm Actuator LVDT

**B220-08** Load cell ( $\pm 15$  kN)

**B293-01** Pressure transducer ( $\pm 300$  kPa)

**B292-02** Temperature transducer ( $0^{\circ}\text{C}$ - $65^{\circ}\text{C}$ )

**B200-01** On-specimen LVDT (1 mm) (3 off)

**B200-02** 105 mm bottom loading platen

**B200-03** 105 mm top loading platen

#### MAIN FEATURES:

- Compact, fully self contained, precision engineered unit.
- Thermoelectric (TE) Heating/Cooling - More reliable and environmentally friendly than mechanical refrigeration & heating elements.
- Built-in, silent, air compressor with associated air preparation equipment – No need for external compressed air supply.
- Patented magnetically mounted on-specimen transducer system, based on loose core LVDTs.
- Optional Epsilon (extensometer) on-specimen strain transducers.
- Gauge point fixing jig facilitates gluing gauge points and the (top and bottom) platens for proposed AMPT Direct Tension Cyclic Fatigue (S-VECD) Test.
- Dynamic Verification Device.

#### TECHNICAL SPECIFICATIONS:

- Load capacity: 15 kN (Static) - 13.5 kN (Dynamic)
- Actuator stroke: 30 mm
- Specimen size: 100 mm (dia)  $\times$  150 mm (h)
- Temperature range: 4 to  $60^{\circ}\text{C}$
- Confining pressure: 0 to 210 kPa
- Noise level: Less than 70 db at 2m

Power Supply: 208V / 230V 50 or 60 Hz

Dimensions: 1330(h)  $\times$  630(d)  $\times$  1100(w) mm

Weight: 200 kg (excluding oil)



B202 Gauge point fixing jig



AMPT product detail



B203 verification device with on-specimen B200-01 LVDTs and load cell

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#### ACCESSORIES:

**B201 KIT** AMPT Consumables kit

**B202** AMPT Gauge Point Fixing Jig

**B203** AMPT Dynamic Verification Device

**B204** AMPT Overlay jig

**B207** AMPT Indirect Tensile (IDT) Jig

**B208** AMPT Semi-Circular Bending (SCB) Jig

#### SPARE PARTS:

**B201-51** AMPT Gauge points

**B201-52** 5 Minute, two part epoxy 24 ml

