

Hamburg Wheel-Tracking Tester (HWTT-100)



- Meets AASHTO T 324 and EN 12697-22 standards
- 705 N load is applied directly above specimens – no vibrations from a cantilever arm!
- Stainless steel construction with water bath for temperature control up to 70 °C ($\pm 0.5^{\circ}\text{C}$ control)
- Dual-wheel design for testing two specimens at once. Stainless steel or rubberized wheels can be used for testing
- Accommodates cylindrical or slab specimens
- Includes software for automatic determination of Stripping Inflection Point (SIP), number of passes to SIP, number of passes to failure (Nf) and other calculated parameters

DESCRIPTION

The GCTS HWTT-100 Hamburg Wheel-Tracking Tester is used to test submerged compacted Hot Mix or Warm Mix Asphalt specimens as per AASHTO T 324 and EN 12697-22 testing standards.

Most other Hamburg Wheel-Tracker systems use a weighted cantilever arm to apply the vertical load, which results in excessive vibrations and an inability to accurately measure the vertical load. The GCTS HWTT-100 instead utilizes a mobile frame to keep the load directly above the loading wheel and dampeners to prevent vibration of the frame during horizontal movement. With this setup, you can be confident that the load stays at 705N ($\pm 4.5\text{N}$) for the duration of the test.

The HWTT-100 provides a constant sinusoidal wheel speed of 1 ft/sec and utilizes a water bath for constant temperature control up to 70 °C ($\pm 0.5^{\circ}\text{C}$). An LVDT jig is used for continuous measurement of the permanent deformation along the path of the rolling wheel.