

ALABAMA DEPARTMENT OF TRANSPORTATION

THE MOTORIZED MARSHALL STABILITY SHALL BE IN COMPLIANCE WITH AASHTO T 245 & T 283

Marshall Stability machines shall be capable of measuring, displaying, and recording load and flow of asphalt specimens. The motorized loading jack frames shall consist of a screw jack mounted in a testing frame and shall produce a uniform vertical movement of 2 inch {50.8mm}/min as specified in AASHTO T 245. Systems must be configured for Marshall or Lottman testing of 4 inch {102mm} samples and 150mm Lottman (AASHTO T 283) testing.

The load jack frames shall have a vertical clearance of 37.3 inch (947mm) and horizontal clearance of 11.9 inch (302mm). Cross-head heights shall be capable of changing quickly and accurately using the self-centering adjusting nuts.

Marshall Stability machine shall include:

- 1) calibrated 10,000 lbf load cell
- 2) calibrated 2 inch digital displacement transducer
- 3) channel digital readout to display load and flow measurements
- 4) 1x0.001inch dial indicator
- 5) bracket for dial indicator or displacement transducer

The digital component set must be capable of connecting to a user-supplied computer for load and flow data acquisition, and must transfer ASCE file formatted data.

Power supply:

110/220 VAC, 50/60 HZ , 6 feet minimum cord.

All models shall be new.