ASPHALT & BITUMEN

Automatic Marshall Stability Test Machine



The PAS-150.TS Automatic Marshall Stability Test Machine, with a 50 kN load capacity and an integrated touch-screen control unit, is designed for the accurate determination of the maximum load (stability) and flow values of bituminous mixtures in accordance with relevant testing standards. When equipped with the appropriate accessories, the system can also be used to perform the Indirect Tensile Strength (ITS) test on bituminous specimens.

The machine consists of a rigid, compact, two-column bench-type compression frame with an adjustable upper crosshead, ensuring high stiffness and precise load application. The drive motor, worm gear transmission system, and touch-screen control unit are fully integrated within the base unit, providing a compact and ergonomic design.

For operational safety, the upward and downward travel of the lower platen is controlled by limit switches mounted on the gear mechanism, preventing over-travel. Rapid positioning of the platen is achieved via manual up and down control buttons located on the front panel.

Marshall breaking heads, indirect tensile strength test fixtures, and an external computer (if required) are not included and must be ordered separately.

Related Standards

EN 12697-34, 12697-23, 12967-12 (Method A) ASTM D1559, D5581, D6927; D6931; AASHTO T245, T283, EN 12697-44; NF P98-251-2

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