

MODEL TO-550-2

Marshall Stability Test Machine

– Digital



Key features

- Single speed, bench top load frame.
- Maximum loading capacity of 50kN.
- Geared screw jack and motor drive.
- Precise speed.
- Limit switch protection for both upward and downward movement.



Marshall Stability Test Equipment is used by highway departments, contractors, engineers, testing laboratories and other government agencies to test the stability of bituminous samples.

It is used for measurement of resistance to plastic flow of cylindrical specimens of bituminous paving mixture loaded on the lateral surface.

The machine can provide measurement data for use with hot mixture containing asphalt or tar and aggregate up to 25.4mm maximum size. The equipment comprises a bench top loading frame with a screw-driven adjustable crosshead.

The Marshall Stability Test Machines are available in two models: digital, using a loadcell to measure force and an LVDT to measure displacement; and a non-digital version that uses a proving ring to measure force and a micrometer to measure displacement.

MODEL TO-550-1 SPECIFICATIONS

Maximum vertical clearance	470mm
Minimum vertical clearance	250mm
Horizontal clearance	265mm
Platen diameter	133mm
Platen travel	25mm
Platen speed	50.8mm/min
Rated power	375 W
Dimension (LxWxH)	550 x 400 x 870mm
Weight	60kg

SUPPLIED AS STANDARD

- **TO-55001** Breaking head assembly
- **TO-55020** Data acquisition system comprising:
 - Digital indicator
 - Load cell 50kN
 - Displacement transducer 0-20 mm

OPTIONAL ACCESSORIES

- **TO-55002** Compaction mold
- **TO-55003** Base plate
- **TO-55004** Extension collar
- **TO-55005** Compaction pedestal suitable for 4in dia specimen
- **TO-55006** Compaction rammer 10lbs

- **TO-55018-1** Sample ejector (hydraulic) for 4in dia specimen

APPLICABLE STANDARDS

- ASTM D1559, BS 598-107, EN 12697-34, AASHTO T-245

ORDERING INFORMATION

- **TO-550-2-01** Digital Marshall Apparatus, including 50kN loadcell and LVDT displacement transducer, 110VAC, 60Hz
- **TO-550-2-02** Digital Marshall Apparatus, including 50kN loadcell and LVDT displacement transducer, 220VAC, 60Hz
- **TO-550-2-03** Digital Marshall Apparatus, including 50kN loadcell and LVDT displacement transducer, 220VAC, 50Hz