

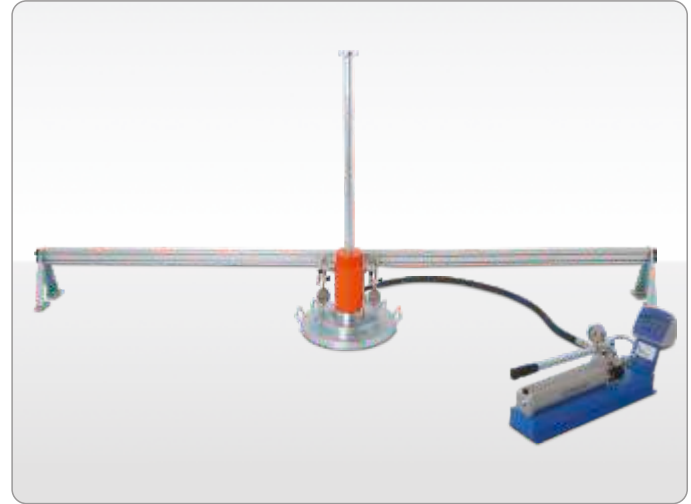
Product Code

- UTS-1101 100 kN Plate Loading Test Set with Digital Dial Gauges and LPI Digital Readout Unit
- UTS-1102 200 kN Plate Loading Test Set with Digital Dial Gauges and LPI Digital Readout Unit
- UTS-1105 500 kN Plate Loading Test Set with Digital Dial Gauges & LPI Digital Readout Unit
- UTS-1111 100 kN Plate Loading Test Set with Displacement Transducers and Interface Unit with 4 Channel for Data Acquisition
- UTS-1112 200 kN Plate Loading Test Set with Displacement Transducers and Interface Unit with 4 Channel for Data Acquisition
- UTS-1115 500 kN Plate Loading Test Set with Displacement Transducers and Interface Unit with 4 Channel for Data Acquisition
- UTS-1121 Hydraulic Jack with Load Transfer Arm, 100 kN capacity, for Plate Load Bearing Test Sets
- UTS-1122 Hydraulic Jack with Load Transfer Arm, 200 kN capacity, for Plate Load Bearing Test Sets
- UTS-1125 Hydraulic Jack with Load Transfer Arm, 500 kN capacity, for Plate Load Bearing Test Sets
- UTS-1133 Loading Plate, Ø152 mm, for plate loading test
- UTS-1134 Loading Plate, Ø160 mm, for plate loading test
- UTS-1136 Loading Plate Ø 305 mm for plate loading test
- UTS-1137 Loading Plate Ø 457 mm for plate loading test
- UTS-1138 Loading Plate Ø 610 mm for plate loading test
- UTS-1139 Loading Plate Ø 762 mm for plate loading test
- UTS-1140 Loading Plate Set for Plate Loading Test. ASTM, Ø152, Ø305, Ø457, Ø600 and Ø760mm plates
- UTGE-3800 Hydraulic Hand Pump, 700 bar

Standards

ASTM D1195, D1196; BS 1377:9

Plate load test sets can be used to determine the ultimate bearing capacity of subgrade soils and compacted pavement components. Plate load tests provide data for use in the evaluation and design of rigid and flexible-type airport and highway pavements.

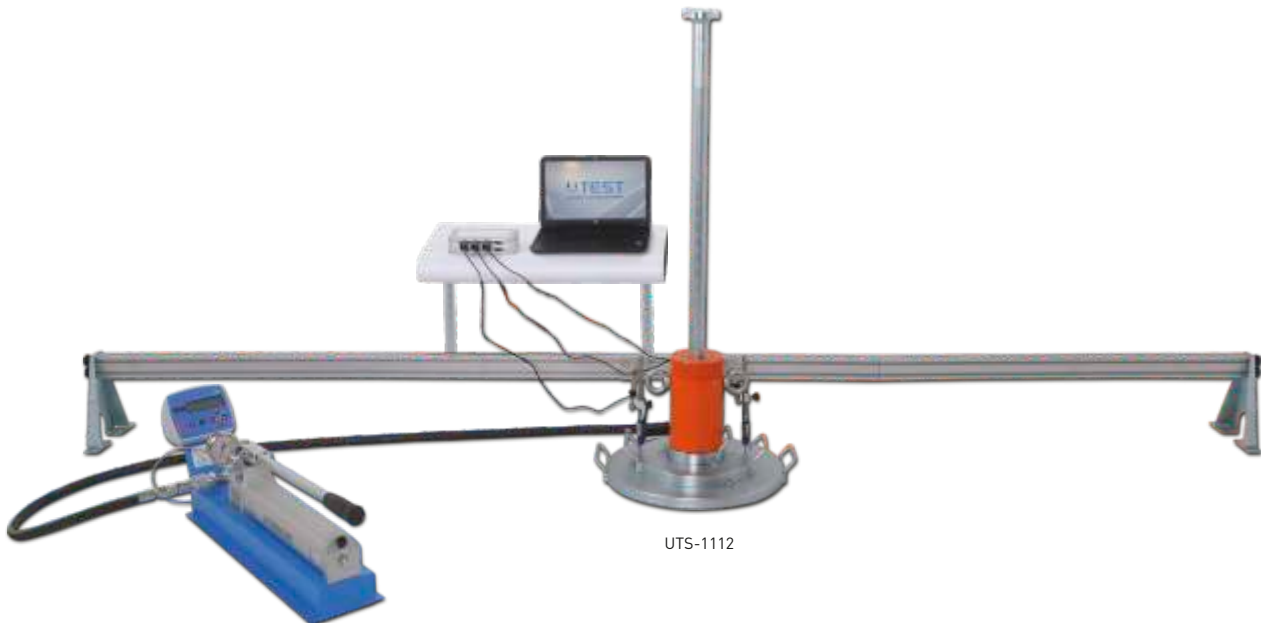


UTS-1102

The test is performed by pressing a steel bearing plate into the layer to be measured by the help of a hydraulic jack and measuring the resulting deformation taking place on the layer. This deformation value can also be used to obtain modulus of subgrade reaction which can be correlated to resilient modulus as proposed by "1993 AASHTO Guide for Design of Pavement Structures"

Utest provides two grup for plate load testing sets: Models, UTS-1101, UTS-1102 and UTS-1105 with capacities, 100, 200 and 500 kN comprise three 25 x 0.01 mm digital dial gauges and a LPI Digital Readout Unit. Models UTS-1111, UTS-1112 and UTS-1115 comprise three 25 x 0.001 mm linear potentiometric displacement transducers and a data logger. All models are supplied complete with the load plates stated below and 1.5 m long flexible hose with quick release coupling and UTGE-3800 hydraulic hand pump.

UTS-1101 Plate Loading Test Set consists of a 100 kN capacity hydraulic jack with load transfer arm, 3pcs. 25 x 0.01 mm digital dial gauges with dial supports, hydraulic hand pump with pressure transducer and digital readout unit, 1.5 m flexible hose with quick release coupling, 2.5 m long datum bar with base support, Ø160 mm and 305mm loading plates and a wooden carrying case.



UTS-1112

UTS-1102 Plate Loading Test Set consists of a 200 kN capacity hydraulic jack with load transfer arm, 3pcs. 25 x 0.01 mm digital dial gauges with dial supports, hydraulic hand pump with pressure transducer and digital readout unit, 1.5 m flexible hose with quick release coupling, 2.5 m long datum bar with base support, Ø160 mm and 305mm loading plates and a wooden carrying case.

UTS-1105 Plate Loading Test Set, ASTM, consists of a 500 kN capacity hydraulic jack with load transfer arm, 3pcs. 25 x 0.01 mm digital dial gauges with dial supports, hydraulic hand pump with pressure transducer and digital readout unit, 1,5 m flexible hose with quick release coupling, 5.5 m long datum bar with base support, Ø152, Ø305, Ø457, Ø610 and Ø762 mm loading plates and a wooden carrying case.

UTS-1111 Plate Loading Test Set consists of a 100 kN capacity hydraulic jack with load transfer arm, 3pcs. 25 x 0.001 mm linear potentiometric displacement transducers and their supports, hydraulic hand pump with pressure transducer, an interface unit with 4 channel for data acquisition(UTCU-0320), 1,5 m flexible hose with quick release coupling, 2.5 m long datum bar with base support, Ø160 mm and Ø305 mm loading plates, converter DC 12V to DC 24V, a wooden carrying case and UTEST software.

UTS-1112 Plate Loading Test Set consists of a 200 kN capacity hydraulic jack with load transfer arm, 3pcs. 25 mm x 0.001 mm linear potentiometric displacement transducers and their supports, hydraulic hand pump with pressure transducer, an interface unit with 4 channel for data acquisition(UTCU-0320), 1,5 m flexible hose with quick release coupling, 2.5 m long datum bar with base support, Ø160 and Ø300 mm loading plates, converter DC 12V to DC 24V, a wooden carrying case and UTEST software.

UTS-1115 Plate Loading Test Set, ASTM, consists of a 500 kN capacity hydraulic jack with load transfer arm, 3pcs. 25 x 0.001 mm linear potentiometric displacement transducers and their supports, hydraulic hand pump with pressure transducer, an interface unit with 4 channel for data acquisition(UTCU-0320), 1,5 m flexible hose with quick release coupling, 5.5 m long datum bar with base support, Ø152, Ø305, Ø457, Ø610 and Ø762 mm loading plates, converter DC 12V to DC 24V, a wooden carrying case and UTEST software.

USOFT-1111 Utest Software for Plate Loading Test is used with UTS- 1111, UTS- 1112 and UTS- 1115 Plate loading test sets.



Detail of UTS-1102



Detail of UTS-1112

Product Code	Dimensions (mm)	Weight (approx.) (kg)
UTS-1133	30x152x152	4.2
UTS-1134	30x160x160	4.7
UTS-1136	30x305x305	17.5
UTS-1137	30x457x457	39
UTS-1138	30x610x610	69
UTS-1139	30x762x762	105
UTS-1140	150x762x762	235

Plate Load Test Set	Capacity	Automatic Data Logging and PC Software Support	Load Plates Included
UTS-1101	100 kN	----	Ø160 mm (UTS-1134)
UTS-1111		✓	Ø305 mm (UTS-1136)
UTS-1102	200 kN	----	Ø160 mm (UTS-1134)
UTS-1112		✓	Ø305 mm (UTS-1136)
UTS-1105	500 kN	----	Ø152 mm (UTS-1133)
			Ø305 mm (UTS-1136)
			Ø457 mm (UTS-1137)
			Ø610 mm (UTS-1138)
UTS-1115		✓	Ø762 mm (UTS-1139)