

## **BEARING CAPACITY ON SITE**



## Product Code

UTS-1101 100 kN (22 500 lbf) Plate Loading Digital Test Set UTS-1102 200 kN (45000 lbf) Plate Loading Digital Test Set 500 kN (112400 lbf) Plate Loading Digital Test Set UTS-1105 UTS-1108 Digital Deflection Measurement Assembly for Plate Loading Test Sets Additional Bar to extend total length up to 5.5 meters UTS-1109 UTS-1111 100 kN (22500 lbf) Plate Loading Test Set with Displacement Transducers and Data Logger UTS-1112 200 kN (45000 lbf) Plate Loading Test Set, with Displacement Transducers and Data Logger UTS-1115 500 kN (112400 lbf) Plate Loading Test Set, with Displacement Transducers and Data Logger UTS-1118 **Electronic Deflection Measurement Assembly** for Plate Loading Test Set UTS-1133 Loading Plate, Ø152 mm (6"), for Plate Loading Test UTS-1134 Loading Plate, Ø160 mm (6,3"), for Plate Loading Test UTS-1135 Loading Plate, Ø10"(254 mm, for Plate Loading Test UTS-1136 Loading Plate, Ø305 mm, (12") for Plate Loading Test UTS-1137 Loading Plate Ø 457 mm (18") for Plate Loading Test UTS-1138 Loading Plate Ø 610 mm (24") for Plate Loading Test UTS-1139 Loading Plate Ø 762 mm (30") for Plate Loading Test UTS-1140 Additional Plates Set for Plate Loading Test, ASTM (Ø457 mm/18", Ø610 mm/24" and Ø762mm/30" plates) UTGE-3810 700 bar Manual (Hand Operated) Pressure Equipment UTGE-3811 600 bar Manual (Hand Operated) Pressure Equipment

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.

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

Utest provides two models, one digital and one electronic for plate load testing sets. Both models have 3 different capacities: 100 kN (22 500 lbf), 200 kN (45 000 lbf) and 500 kN (112400 lbf)

All test set supplied with a wooden carrying case.

UTS-1109 Additional Bar to extend total length up to 5.5 meters of measuring bar of plate loading test sets should be ordered.

And also, UTS-1140 Additional Plate Set for 500 kN Plate Loading Test (UTS-1105 or UTS-1115) should be ordered. UTS-1140 which packed in a separate wooden box consists of Ø457mm/18"; Ø610mm/24" and Ø762mm/30" plates.



ASTM D1195, D1196; BS 1377:9



UTS-1112



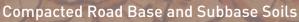
Detail of UTS-1102

Detail of UTS-1112

Product Code	Dimensions (mm)	Weight (approx.)
UTS-1101	370x1330x570	50 kg
UTS-1102	370x1330x570	54 kg
UTS-1105	80x1130x80	60 kg
UTS-1121	200x950x300	43 kg
UTS-1122	300x1050x300	47 kg
UTS-1125	350x1100x300	53 kg
UTS-1108	450x2600x240	8 kg
UTS-1109	30x100x60 mm	8 kg

Product Code	Dimensions (mm)	Weight (approx.)
UTS-1118	450x2600x230	8 kg
UTS-1133	160x170x50	3,50 kg
UTS-1134	160x180x50	4,50 kg
UTS-1136	310x370x50	15 kg
UTS-1137	460x530x50	34 kg
UTS-1138	700x700x50	60 kg
UTS-1139	850x850x50	94 kg
UTS-1140	850x850x50	187 kg





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MATERIAL TESTING EQUIPMENT			

015-1101		
	100 kN Hydraulic Equipment with Fittings (UTS-1121)	100 kN hydraulic cylinder, 3 pcs. extension rods with different length
100 kN Plate		Hydraulic hand pump (with pressure transducer, readout unit and 2m (6,56 ft) flexible hose with quick release coupling)
Loading Digital		Ø152 mm (6") and Ø305 mm (12") loading plates
Test Set	Digital Deflection Measurement	2,5 m (8,2 ft) measuring bar with base supports,. plump, spirit level
	Assembly (UTS-1108)	3 pcs. 25 x 0.01mm digital dial gauges (UTGM-0148) with dial supports

UTS-1102		
	200 kN Hydraulic Equipment with Fittings ( UTS-1122)	200 kN hydraulic cylinder, 3 pcs. extension rods with different length
200 kN Plate		Hydraulic hand pump (with pressure transducer, readout unit and 2 m (6,56 ft) flexible hose with quick release coupling)
Loading Digital		Ø152 mm (6") and Ø305 mm (12") loading plates
Test Set	Digital Deflection Measurement	2,5 m (8,2 ft) measuring bar with base supports,. plump, spirit level
	Assembly (UTS-1108)	3 pcs. 25 x 0.01mm digital dial gauges (UTGM-0148) with dial supports

015-1105		
	500 kN Hydraulic Equipment with Fittings (UTS-1125)	500 kN hydraulic cylinder, 3 pcs. extension rods with different length
500 kN Plate		Hydraulic hand pump (with pressure transducer, readout unit and 2m (6,56 ft) flexible hose with quick release coupling)
Loading Digital		Ø152 mm (6") and Ø305 mm (12") loading plates
Test Set	Test Set Digital Deflection Measurement Assembly (UTS-1108)	2,5 m (8,2 ft) measuring bar with base supports,. plump, spirit level
		3 pcs. 25 x 0.01mm digital dial gauges (UTGM-0148) (UTB with dial supports

UTS-1111		
		100 kN hydraulic cylinder, 3 pcs. extension rods with different length
100 kN	100 kN Hydraulic Equipment with Fittings (UTS-1121)	Hydraulic hand pump (with pressure transducer, readout unit and 2 m (6,56 ft) flexible hose with quick release coupling)
Plate Loading		Ø152 mm (6") and Ø305 mm (12") loading plates
Digital	Electronic Deflection Measurement Assembly	2,5 m (8,2 ft) measuring bar with base supports,. plump, spirit level
Test Set		3 pcs. 25 x 0.01 mm digital dial gauges with dial supports
	(UTS-1118)	Interface unit with 4 channel for data acquisition (UTCU-0320), converter DC 12 V to DC 24V and UTEST software. PC is not included and have to be ordered separately

UTS-1112		
	ate ading gital	200 kN hydraulic cylinder, 3 pcs. extension rods with different length
200 kN		Hydraulic hand pump (with pressure transducer, readout unit and 2 m (6,56 ft) flexible hose with quick release coupling)
Plate		Ø152 mm (6") and Ø305 mm (12") loading plates
Digital		2,5 m (8,2 ft) measuring bar with base supports,. plump, spirit level
Test Set		3 pcs. 25 x 0.01 mm digital dial gauges with dial supports
		Interface unit with 4 channel for data acquisition (UTCU-0320), converter DC 12 V to DC 24V and UTEST software. PC is not included and have to be ordered separately

500 kN Hydraulic Equipment with Fittings (UTS-1125)	500 kN hydraulic cylinder, 3 pcs. extension rods with different length
	Hydraulic hand pump (with pressure transducer, readout unit and 2 m (6,56 ft) flexible hose with quick release coupling)
	Ø152 mm (6") and Ø305 mm (12") loading plates
Loading Digital Test Set Electronic Deflection Measurement Assembly (UTS-1118)	2,5 m (8,2 ft) measuring bar with base supports,. plump, spirit level
	3 pcs. 25 x 0.01 mm digital dial gauges with dial supports
	Interface unit with 4 channel for data acquisition (UTCU-0320), converter DC 12 V to DC 24V and UTEST software. PC is not included and have to be ordered separately
	with Fittings (UTS-1125)  Electronic Deflection Measurement Assembly