

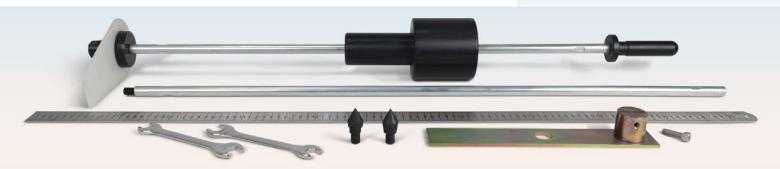
DYNAMIC CONE PENETROMETER 16-T0012/C

STANDARD: ASTM D 6951-03

The TRL DCP (Dynamic Cone Penetrometer) is an instrument designed for the rapid in situ measurement of the structural properties of existing road pavements constructed with unbound materials. Continuous measurements can be made down to a depth of approximately 850 mm or when extension shafts are used to a recommended maximum depth of 2m. Where pavement layers have different strengths the boundaries can be identified and the thickness of the layers determined.

Correlation's have been established in earlier work (Van Vuuren 1969, Kleyn and Van Heerden 1983, Smith and Pratt 1983) between measurements with the DCP and CBR (California Bearing Ratio) so that results can be interpreted and compared with CBR specifications for pavement design. A typical test takes only a few minutes and therefore the instrument provides a very efficient method of obtaining information that would normally require the digging of test-pits.





COMPRISES	
16-T0012/C1	Sliding hammer (steel made) weighing 8kg
16-T0012/C2	Impact anvil driving rod and clip, falling 575mm
16-T0012/C3	Steel rod, diameter 16 mm, up to a depth of 800 mm below the surface
16-T0012/C4	N° 3 threaded end cones in tempered steel, 20 mm diameter, 60° cone angle
16-T0012/C5	Bearing plate and measuring rod with adjustable scale (graduated in mm)
16-T0012/C6	Aluminum alloy carrying case
Dimensions	1080x310x150mm
Weight	22kg



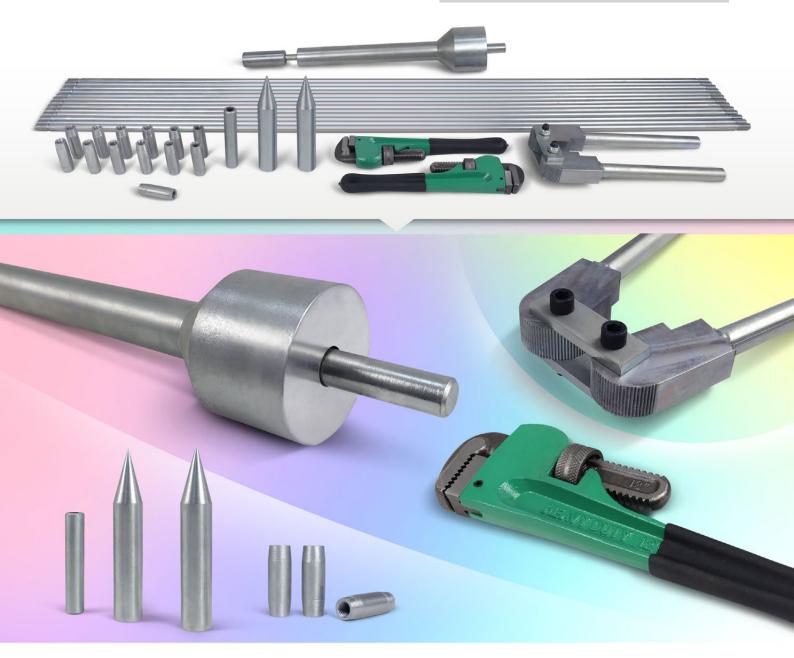


MACKINTOSH PROBE MPA-1

STANDARD: BS1377

Mackintosh probe test is most widely used in situ test to measure the soil bearing capacity of different layers in terms of N value. This test is very useful to find out the bearing capacity of soil up to 18 meters. One set of Mackintosh Probe equipment was used to investigate the bearing capacity of the untreated peat soil. Mackintosh Probe equipment (Plate 1 a) consists of a series of 15 mm diameter steel rods. The length of each rod is 1.20 m. A 25 mm diameter and 60 $^{\circ}$ cone screwed onto the lower rod driven into ground by a 4.5 kg hammer falling freely through a height of 300 mm onto an anvil. The number of blows require for every 300 mm penetration is recorded.

PACKING LIST	
Penetration rod (471/4 inch each)	13PCS
Coupling	13PCS
Pipe wrenches	2 PCS
Penetration cone	2 PCS
Hammer nut	2 PCS
Hammer	1 PC
Lifting handle	1 PC
Heavy duty carrying case	1 PC





DYNAMIC CONE PENETROMETER K-100

STANDARD: ASTM D 6951-03

The K-100 Standard Kit measures the shear strength of soil with a CBR between 0.5-100. Affordably priced, this kit is for local engineers and geotech firms. With it the user can produce CBR value profiles in the field. It comes with a 30" drive rod (actual penetration depth 28 1/4"), 25 disposable cones and a cone adapter for fast and easy extraction of the instrument from hard soil. The stainless steel dual mass hammer and carrying case are included.



COMPRISES

K100	Upper assembly (Stainless Steel) includes:	K012	DCP User's Manual
• K103	● Quick-Connect Upper Rod	K450	Pins with Clips, 2 per package
● K102	● Handle	K500	Vertical Scale, 40"
• K200	● Dual Mass Hammer	K510	Foot for Vertical Scale
K1330	Drive Rod 30" Stainless Steel with end cap	K530	Upper Attachment for Vertical Scale
K420	Hex Key, 1/4", "Allen" Wrench Type	K700	Reusable Hardened Point
K430	3-in-ONE Oil	K800	Adapter for Disposable Cones
K445	Wrenches 9/16", open end, black	K900	Disposable Cones, Pkg of 25
K011	CD of DCP User's Manual & Excel® Template	P-1720	Allov Aluminum Carrying Case

ACCESSORIES AND SPARE PARTS (need to be ordered seperately)

K133775	37.75" Drive Rod (Penetration to 35.75") (Stainless Steel) with end cap	K1348	Stainless Steel 48" Drive Rod
K1312	12" Drive Rod for use with 24" Extension Rods	K1348S	Extra Strong 48" Drive Rod
K1724	Extension Rod 24" for use with 12" Drive Rod in weak soil	K133775S	Extra Strong 37.75" Drive Rod





MANUAL DYNAMIC PENETROMETER 16-T0012/B





Steel carrying case

16-T0012/C7 Extension rods: 400 mm, dia. 16mm

16-T0012/B10 Spare expendable conical point, 1000 mm2 area,

Base plate with seating for scale

Rule graduated in mm, 1 m long

Lever device for rod extraction

35.6 mm dia, 90° angle



16-T0012/B6 16-T0012/B7

16-T0012/B8

16-T0012/B9

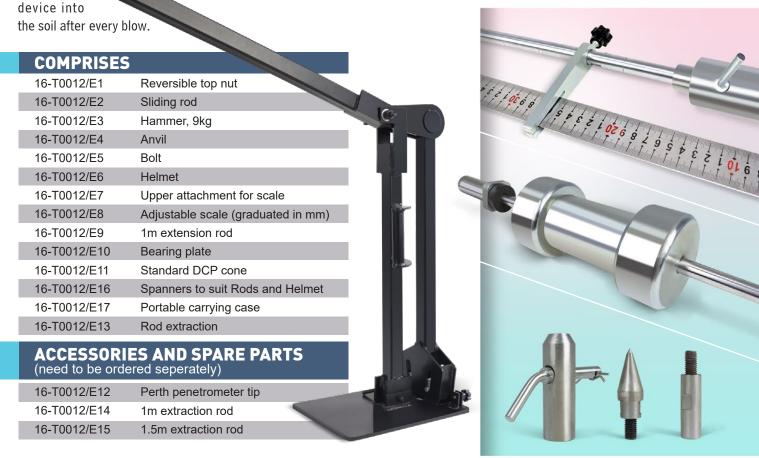


MANUAL DYNAMIC PENETROMETER 16-T0012/E

STANDARD: DAS1289.6.3.2&AS 1289.6.3.3

The Dynamic Cone Pene trometer (DCP) is used to determine underlying soil strength by measuring the soil penetra tion of the

- O It is tough and robust having been well proven in the field over many years.
- It is supplied with a reversible 'Top Nut', enabling it to be used in the standard configuration (as it is supplied) or easily changed over to the Perth Sand Penetrometer configuration.
- O'DCP Kit' comprises all the equipment and tools required to carry out a DCP test and all parts are designed to be replaceable on an individual basis (see parts list).
- One year warrantee against any manufacturing defects.







MOTOR OPERATED DYNAMIC PENETROMETER 16-T0013-B

STANDARD: AS1289.6.3.2

The motor operated dynamic penetrometer 16-T0013-B is manufactured according to Australian standards and is designed to perform soil penetration resistance test, to determine underlying soil strength by measuring the soil penetration of the device into the soil after every blow. The dropping height of this device is $600\pm5/510\pm5$ mm adjustable, and the hammer weight is 9 ± 0.1 kg.

The device includes a host part, a drive shaft, a gasoline engine and a manual extractor. The engine drives the lifting mechanism through a flexible shaft to lift a 9 kg weight drop to the specified height and make it fall freely. Built on wheels, which is convenient for transportation and operation.





MOTOR OPERATED DYNAMIC PENETROMETER 16-T0013-B



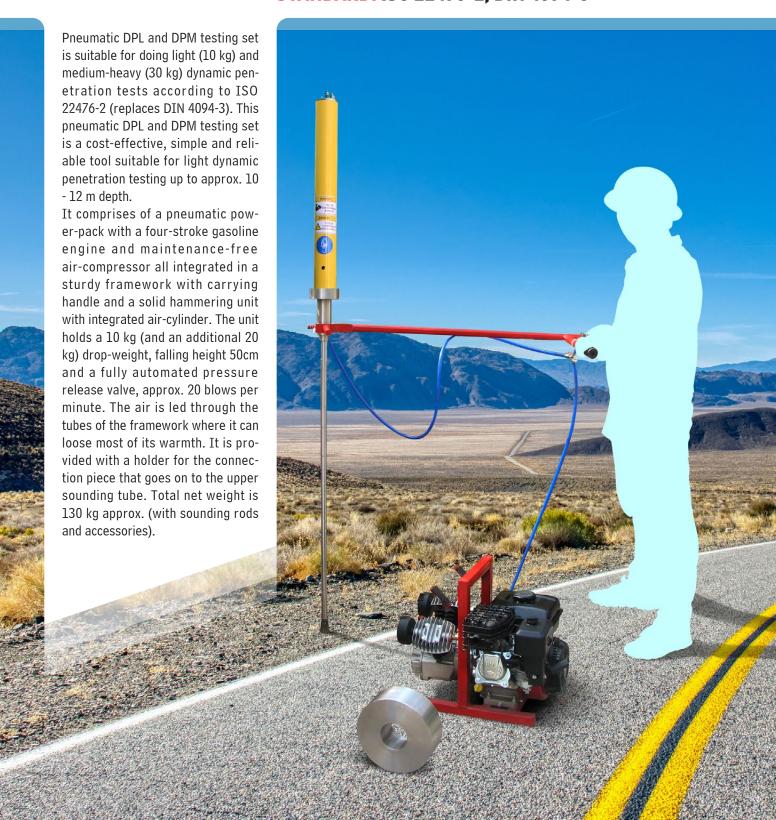
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PNEUMATIC DRIVEN DYNAMIC PENETROMETER 16-T0012/P

STANDARD: ISO 22476-2, DIN 4094-3





PNEUMATIC DRIVEN DYNAMIC PENETROMETER 16-T0012/P



COMPRISES	
16-T0012/P1	Portable compressor set with Briggs & Stratton gasoline engine and integrated air cooling.
16-T0012/P2	Sounding tube (dia.22 x 1000 mm) with depth indication every 100 mm 12pcs.
16-T0012/P3	Threaded nipple M16 for sounding rod (22mm)12pcs
16-T0012/P4	Open ended spanner 19 mm – Heavy duty design for 22 mm sounding tubes
16-T0012/P5	Allen key M8 for threaded nipples M16
16-T0012/P6	Manual rod puller with football and lever
16-T0012/P7	Conical sounding tip of tempered steel - 5 cm², M16 connection 2pcs
16-T0012/P8	Conical sounding tip of tempered steel - 10 cm², M16 connection 2pcs
16-T0012/P9	16-T0012/P9 Conical sounding tip -10cm² -single use type 20pcs

OPTIONAL PARTS

16-T0012/P10	20kg drop weight 1pc
16-T0012/P11	Sounding tube (dia.32 x 1000 mm) with depth indication every 100 mm 12pcs
16-T0012/P12	Conical sounding tip of tempered steel - 15cm ² . M16 connection 1pcs



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