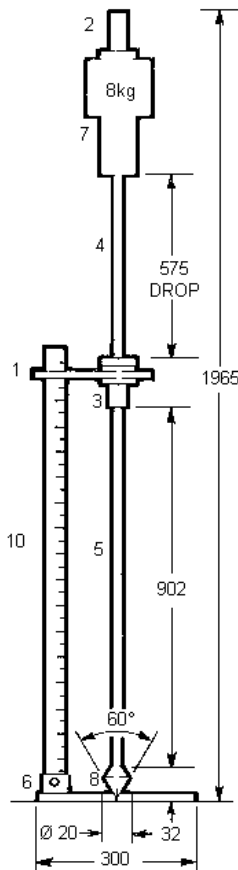


Dynamic Cone Penetrometer DCP

The Dynamic Cone Penetrometer (DCP) is an instrument designed for the rapid in-situ measurement of the structural properties of existing road pavements constructed of unbound materials. The robust and simple design means that the DCP is quick and easy to use, portable and suitable for use in locations where access may be difficult.

The DCP was originally developed by the UK Transport Research Laboratory



A2465 ASSEMBLED DCP
 Figure 1

Correlations have been established between measurements with the DCP and conventional in-situ CBR 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 which would normally require the digging of test pits.

Method of use

The 8 kg free fall hammer is lifted and dropped through a height of 575mm. The distance of penetration of the cone tip is then recorded and the cycle repeated.

The standard kit allows continuous measurements to be made down to a depth of approx 850mm.

An extension kit is available that when fitted allows works to a maximum recommended depth of 2 metres.

Where sub-pavement layers have different strengths, the boundaries can be identified and the thickness determined.

Case size approx. 1100x250x150mm net weight 22kg

