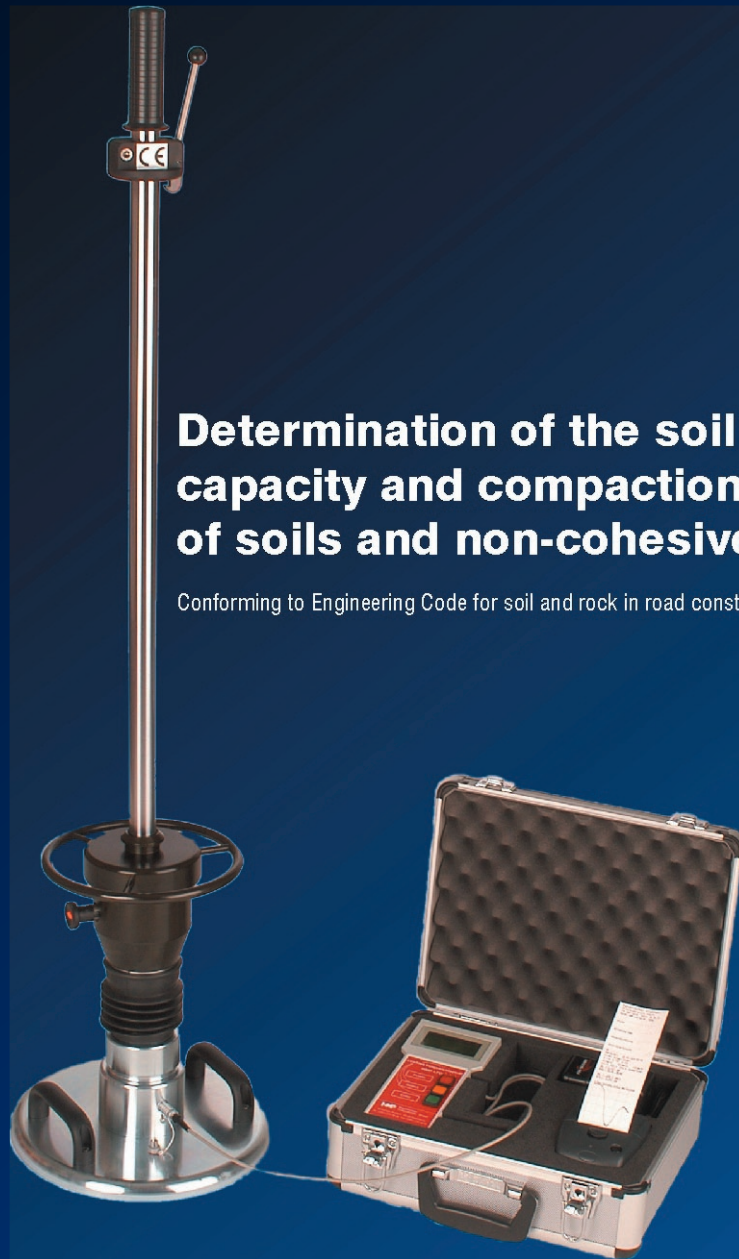


# THE LIGHT DROP-WEIGHT TESTER

Fast, reliable and economic testing guaranteed.



## Determination of the soil bearing capacity and compaction quality of soils and non-cohesive subbases

Conforming to Engineering Code for soil and rock in road construction TP BF-StB Part B 8.3  
Issue 2003



**BUILDING CALLS FOR TESTING!**



**KENSAINS SDN BERHAD**

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# Dynamic Plate Load Test

Using the Light Drop-Weight Tester HMP LFG  
as per TP BF-StB Teil B 8.3 / Issue 2003

## Use

The dynamic plate load test employing the Light Drop-Weight Tester is used in earthwork and road construction to determine the soil bearing capacity and the compaction quality of soils and non-cohesive subbases, as well as for soil improvement applications. The test method is suited for coarse-grain and mixed-grain soils having maximum grain size of 63mm. The test method may be used to determine the dynamic modulus of deformation of soil in the range  $E_{vd} = 15 \dots 70 \text{ MN/m}^2$ .



## Advantages

Over the static plate load tester:

- immediate evaluation of each measurement
- low tester weight
- easy to handle
- time-saving
- testing in locations not really accessible
- no vehicle required for loading

## Intra-company monitoring

Being easy to handle and providing immediate measuring results, the HMP Light Drop-Weight Tester is especially suited for monitoring intra-company operations. It facilitates quick decisions for continuing construction work at the site.

## Applications

- Road construction
- Testing of pavement bedding



- Compaction monitoring in pipe trenches and cable ducts
- Quality assurance in canal construction
- Railway construction
- Foundation backfill

## Applicable codes

- (ZTVE-StB94) German Additional technical terms of contract and rules for earthwork in road construction
- (ZTVT-StB95) German Additional technical terms of contract and rules for subbases in earthwork
- (ZTVA-StB97) German Additional technical terms of contract and rules for excavation in traffic areas
- (NGT39) German rules for using the Light Drop-Weight Tester in railway construction

## Tradition of HMP LFG



Development and production over a period of 25 years



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# Specifications

## Loading mechanism

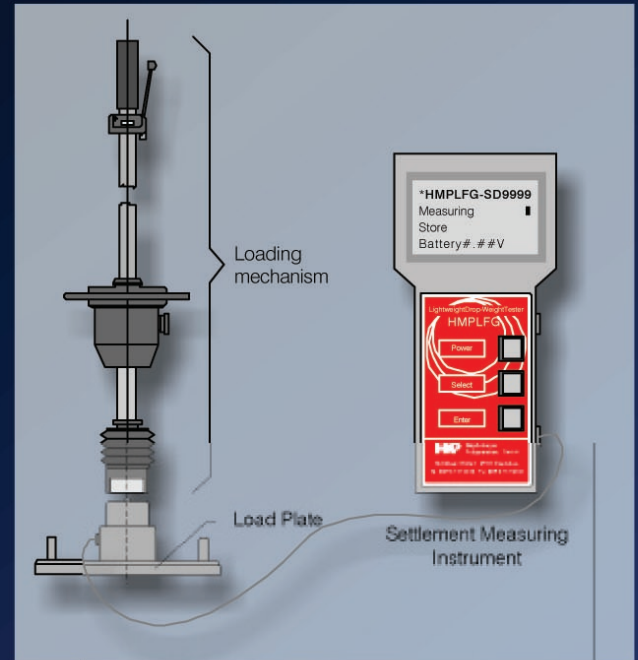
▮ Total weight	15,0kg
▮ Drop weight	10,0kg
▮ max. impact force	7,07kN
▮ Duration of impact	17,0 ± 1,5ms
▮ Material	zinc coated/hard-chrome plated steel

## Load plate with integral acceleration transducer

▮ Diameter	300mm
▮ Plate thickness	20,0mm
▮ Total weight	15,0kg
▮ Material	zinc coated steel

## Electronic settlement measuring instrument

▮ Power supply	4xR6 Batterien
▮ Dimensions	210mm x 80mm x 25mm
▮ Total weight	0,4kg
▮ Settlement measuring range	0,1 bis 2,0mm ± 0,02mm
▮ Measuring range $E_{vd}$	$E_{vd} < 225 \text{ MN/m}^2$
▮ Temperature range	0 bis 40°C
▮ Storage capacity	200 series of measured data



## Carrying case

Contents:

**Electronic settlement measuring instrument**

**Thermal printer with charger**

Small (90x105x45mm), quick printer with light-resistant paper.

The charging state of the printer (and the Settlement measuring instrument) is displayed on the Settlement measuring instrument. The printer works automatically. The charger can be connected to a 100-240V/50-60Hz main supply or, by means of an adapter cable, to a 12-24V car battery.

## Accessory for the HMP Light Drop-Weight Tester



**Transportcart** (collapsible)  
for long distances at the site

**Base plate with magnet**  
for proper positioning  
of loading unit



**Transportbox (Wood)**  
for storing the device  
and shipping purposes



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