

HOCHPRÄZISIONS

PRÜFTECHNIK

made
in
Germany

ZORN
INSTRUMENTS

ZFG 3000 GPS

Light-Weight Deflectometer



load-bearing capacity test
& soil compaction control

www.zorn-instruments.com

applications

determination of load-bearing capacity and compaction quality of soils and aggregates

- ✓ subgrade
- ✓ railway construction
- ✓ trenches and canal construction
- ✓ pipeline construction
- ✓ backfill for bridges
- ✓ fast and safe self-supervision
- ✓ clear data reports for the client

test standards and regulations

current industry standards (abstract) for the dynamic plate load test

ASTM E2835-11 (North America)
TP BF-StB Part B 8.3 and ZTVE-StB 09 (Germany)
RiL-DB 836 (Deutsche Bahn, Germany)

RVS 08.03.04 März 2008 (Austria)
KMF (Aargau, Switzerland)

HOCHPRÄZISIONS

PRÜFTECHNIK



ZORN
INSTRUMENTS

ZFG 3000 GPS

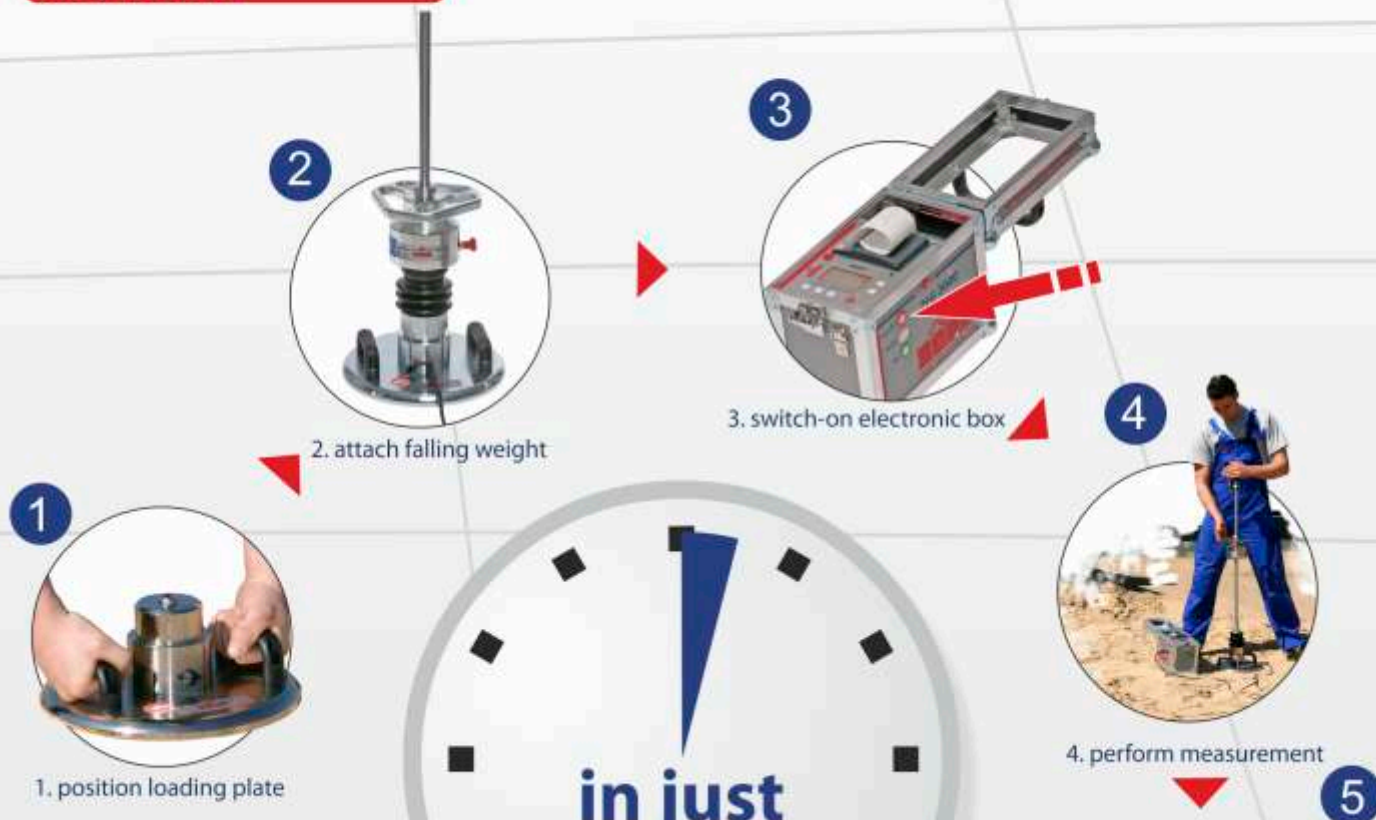


- ✓ device operated by one person
- ✓ no counterweight required
- ✓ easy menu guidance
- ✓ suitable for use inside small trenches
- ✓ immediate display of deformation modulus (Evd)
- ✓ s/v ratio for assessment of soil compactibility
- ✓ premium LCD display
- ✓ high capacity accumulator with speedcharger
- ✓ GPS coordinates in UTM and Gauss–Krueger format
- ✓ splash-proof electronic box

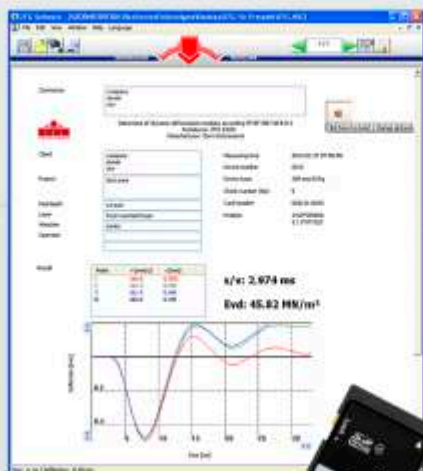
including

- ✓ ZORN software for data analysis and editing of test reports, create your individual user profile, connect your GPS data with Google Maps
- ✓ SD-card for data transfer to PC
- ✓ 300 mm loading plate with 10 kg loading device, Evd measuring range 15-70 MN/m², maximum measuring depth 600 mm
- ✓ Thermal printer for on-site editing of test reports including deflection graph

test procedure



PC software



SD-card

- SD drive safely integrated in electronic box
- fast and simple data transfer

**fast
easy
reliable**



5. calculate results / print protocol



ZORN INSTRUMENTS e.K. • Benzstraße 1 • 39576 Stendal (Germany)

Tel.: +49 39 31- 2 52 73 0

Fax: +49 39 31- 2 52 73 10

www.zorn-instruments.com

info@zorn-instruments.com

accessories



Magnetic base
Clean storage of the falling weight between measurements



transport box
for safe transport and storage of ZFG instruments



ZORN software & SD-card reader (USB)
for data analysis and editing of test reports (for XP, Vista and Win7)



foldout trolley
for easy ZFG transport between measurement points



15 kg falling weight for an extended measuring range
(Evd 70 - 105 MN/m²)



durable transport box
with wheels (optional)



150 mm loading plate
extended measuring range
(Evd 70 - 140 MN/m²)



CBR field test, dynamic



CBR laboratory test, dynamic

TRUST, BUT VERIFY

Continuous quality control has become an essential factor in modern infrastructure construction and maintenance.

Testing the bearing capacity of compacted soil and aggregates is required at the beginning of every project. Whether you are building the foundations for a new motorway or just refurbishing an existing road; the correct compaction criteria provides assurances both the contractor and the client.

With the use of the ZFG Light-Weight Deflectometer from ZORN Instruments instant and on-site compaction control is simple and safe. Models of the latest ZFG generation offer valuable new features and greater ease of use.

Be ahead of the game, test existing soil structures before you start building. The ZFG can be used also to check the bearing capacity of existing grounds in minimum time. Whether this is virgin ground or previously constructed ground. The ZFG range can detect weak sections of the soil instantly and a decision to rectify the problem can be immediate.

Working with the ZFG range is simple. It comes with a comprehensive instruction manual with calibration data. Alternatively, our local agent in your country will provide free instruction and training.

As a precise measuring instrument a ZFG has to be calibrated on a regular basis. Please contact us or your local ZORN partner for advice.