

ZORN DYNAMIC CBR

Light Weight Deflectometer add-on
or stand-alone device

According to TP Gestein-StB Part 5.6 (Germany)



DETAILS

- Available as extension for ZORN LWD models ZFG 3.1 and ZFG 3000
- Also available as stand-alone device
- Laboratory and field testing
- Material strength
- Quality control

1

Dynamic CBR from ZORN INSTRUMENTS is available as an add-on for Light Weight Deflectometer (LWD) models ZFG 3.1 and ZFG 3000 and as a stand-alone device. Dynamic CBR is a combination of a LWD falling weight section and an original 50 mm CBR plunger. Dynamic CBR is simple, quick and delivers repeatable results, especially if compared with the original CBR field test according to ASTM D4429.

2

ZORN Dynamic CBR can be performed safely, even by less experienced operators. Compared to conventional CBR, the in-place field test does not require a counterweight. Users get a safe and reproducible result in less than five minutes (including set-up). Dynamic CBR is suitable for classic road building materials but also for aggregate from recycled concrete, steel mill slag and fly ash. In addition to assessing the material strength, Dynamic CBR also helps to analyze the frost sensitivity of soil and the effect of soil improvement measures. In the case of soil improvement and soil consolidation, Dynamic CBR can replace time-consuming laboratory tests and the binding process can be monitored on site.

Dynamic CBR field



LWD Loading Device

50 mm CBR plunger with handles, adapter disk, housing pin with acceleration sensor, guide tube for CBR plunger with support plate

3

Dynamic CBR Field test set

consisting of:

- 50 mm CBR stamp with handles
- Connecting disk for accelerometer housing
- CBR stamp guide tube and support plate,
- Robust transport case

Dynamic CBR Laboratory test set

consisting of:

- 50 mm CBR stamp with handles
- Connecting disk for accelerometer housing
- Compaction collar
- Annular half-disk surcharge weights
- Stamp guide collar
- Stamp guide
- CBR mould body
- Non-perforated mould base
- Perforated mould base

4

Dynamic CBR Lab and Field test set

consisting of:

- 50 mm CBR stamp with handles
- Connecting disk for accelerometer housing
- CBR stamp guide tube and support plate
- Robust transport case
- Compaction collar
- Annular half-disk surcharge weights
- Stamp guide collar
- Stamp guide
- CBR mould body
- Non-perforated mould base
- Perforated mould base

Dynamic CBR LAB

