

BOMAG

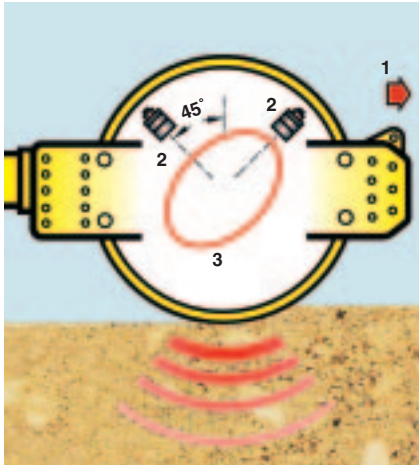
Measuring System BTM05 Terrameter



- Continuous testing on the run
- Reduces re-working
- Cuts conventional test costs
- Improves first time results
- Reproducible results on all soil types
- Optimizes number of roller passes



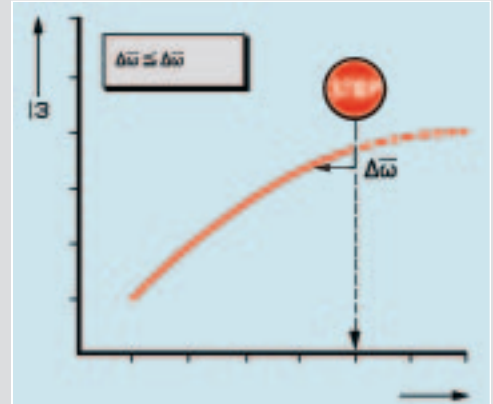
Featuring...



1. Travel Direction 2. Accelerometers
3. Drum Oscillation

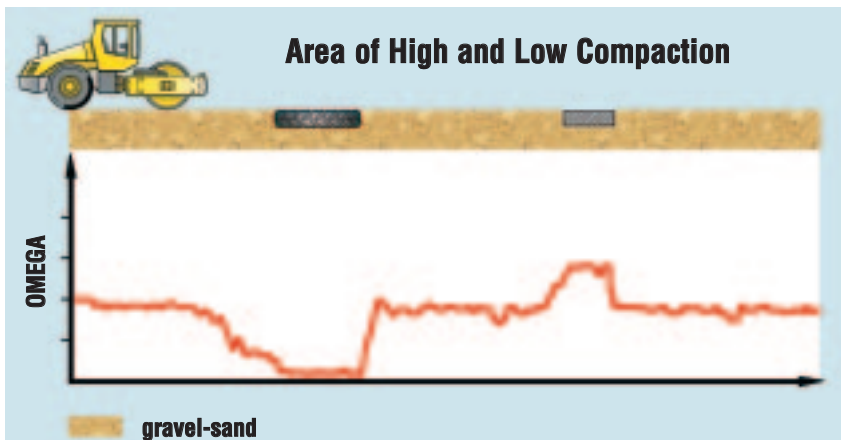
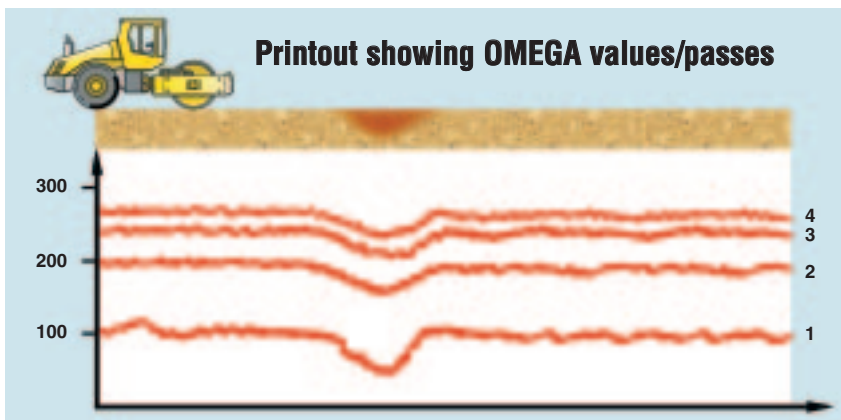
How it Works:

- The BTM05 Terrameter uses the relationship between the acceleration of the vibrating drum and the dynamic stiffness of the soil to measure compaction output.
- The measuring system monitors the acceleration and produces an Omega value. Omega denotes soil stiffness and can be correlated with the results of conventional compaction tests.
- Depending on the type of material to be rolled, Omega values between 0 and 1000 can be displayed.
- In general, the Omega value produced on specific soils or granular materials will be higher where compaction is better.



Standard and simple compaction efficiency display. Green indicator light indicates further compaction achievable. Red indicator light indicates "STOP" maximum compaction has been accomplished.

Roller mounted compaction control system



Monitoring vertical and horizontal accelerations.



In addition to the analog performance gauge and compaction efficiency indicator lights, the integrated printer can provide a "hard copy" permanent record for documentation of achieved compaction results. This printout can provide successive pass growth curve results as well as number of passes, travel direction and speed, measured distance, vibration operating frequency and achieved Omega compaction values.

Compaction Control System

BTM05 Terrameter

BTM05 System

- ✓ 2 accelerometers
- ✓ Microprocessor
- ✓ Speedometer
- ✓ Omega analog gauge
- ✓ Vibration frequency gauge
- ✓ Operator console
- ✓ Printer

BTM05 System Features and Advantages

- ✓ Reduces compaction costs
- ✓ Indicates when compaction is complete
- ✓ Reduces risk of over compaction
- ✓ Assists operator in achieving optimum results
- ✓ Identifies and documents soft spots and non-uniform areas
- ✓ Produces line and column graphs for compaction control and for calibration of Omega values with conventional test results
- ✓ Additional scale upgrade for measurements on low stiffness materials

Material Specifications



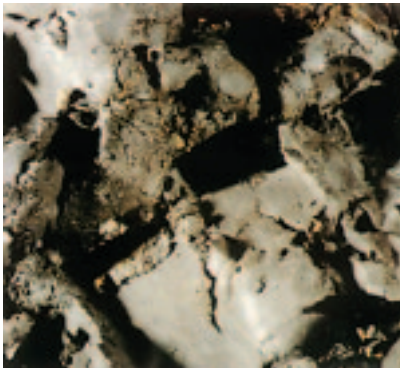
Rockfill

Compaction testing on rock fill using conventional test methods is particularly difficult. The BTM05 Terrameter provides an effective alternative. Omega values between 600 and 1000 are typical.



Mixed Soils

Most weak soils display similar characteristics to clay and silt. Omega values between 150 and 300 are typical.



Clay and Silt

The stiffness is relatively low. When compaction is complete, Omega values between 20 and 150 are typical. The behavior of the soil under dynamic compaction is heavily dependent on water content.



Gravel and Sand

Obtainable Omega values are typically between 250 and 600.

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