



Bronto Loadman

PORTABLE FALLING WEIGHT DEFLECTOMETER

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BRONTO LOADMAN is a light weight portable device for measuring the bearing capacity of any kind of ground. The device can be used to measure the bearing capacity on roads, streets, bridges, construction sites etc. The device is easy to handle and can be used practically on all materials under any conditions.

Measuring principle

The deflection caused by the load of a falling weight inside the device is measured by an accelerometer. The measuring results are given as the maximum deflection, the calculated bearing capacity modulus E, the length of the loading impulse and the percentage (approx.) of the rebound deflection compared to the maximum deflection. The loadman comes with the table of typical bearing capacities of different soil types versus loading pressures of Bronto aerial platforms.

Technical data

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|---------------------------------------|---|
| • Total weight | 16 kg |
| • Height | 117 cm |
| • Diameter | 13 cm |
| • Diameter of loading plate(s) | 132 mm (200 mm and 300 mm as an option) |
| • Falling weight | 10 kg |
| • Falling height | 80 cm |
| • Operating voltage | 27 V (3 × 9V batteries) |
| • Measuring range | 0.1 - 5 mm |
| • Length of loading/unloading impulse | 25 - 30 ms |



Turn the device upside down with the handles to slide the falling weight to the upper end of the tube and get it attached to the magnet.



Put the device on the measuring spot in an upright position. The tube does not need to be in a completely vertical position, it is more important that the loading plate touches the ground completely.



Release falling weight by shortly pressing the red button. The result is shown on the display. To reach the maximum accuracy it is recommended to repeat measurement in the same position until the measurement result is stable.



Compare the value with the table of loading pressures of Bronto aerial platforms.

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