

Benkelman – Beam AX 06

Determination of the load-bearing capacity of roads made of asphalt or pavement



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Measurement of load-bearing capacity of road surface layers made of asphalt or pavement

The Benkelman Beam enables precise and non-destructive measurements of the load-bearing capacity of road surface layers made of asphalt or pavement (in conjunction with further investigations).

- Identification of visually undetectable weak points
- Formation of homogeneous roads sections with comparable load-bearing capacity
- Determination of load bearing behavior over longer periods of time and after extreme hydrological events
- Identification of structural causes of damage and assessment of the structural condition
- Selection of appropriate road maintenance measures

The Benkelman beam AX 06 is a new development. Special attention has been paid to the following characteristics:

- truss grid beam construction made of stainless steel
- is delivered in calibrated condition
- 1:2 measuring bridge with precision bearings
- easy to assemble, simply take the front part, hook in and tighten the screws^{(1),(2)}
- improved mounts for dial gauge⁽⁴⁾
- lockable height adjustment of the feet⁽⁶⁾

Technical specifications:

- according to the requirements of "FGSV Working Paper No. 443, Load-bearing capacity of road surface pavements, Part B 1: Benkelman Beam, Device description, measurement execution, Part C1: Analysis and evaluation of subsidence measurements"
- Pack size disassembled, length < 2 m⁽⁵⁾, Mass: 17 kg
- lever ratio 1:2
- Distance between probe tip and front support feet of the support frame: 2,40 m
- Material: stainless steel (1.4301), powder-coated white
- digital dial gauge IP65, reading: 0,001 mm, accuracy $\pm 0,004$ mm, measuring range: 25 mm
- additionally required is a load vehicle of 10 t with only one rear axle and twin tires⁽³⁾

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