Benkelman – Beam AX 06
Determination of the load-bearing capacity of roads made of asphalt or pavement
Benkelman – Beam AX 06
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 ± 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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