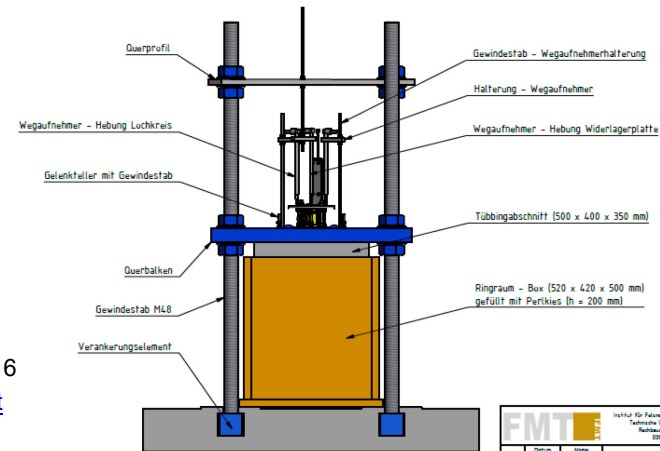
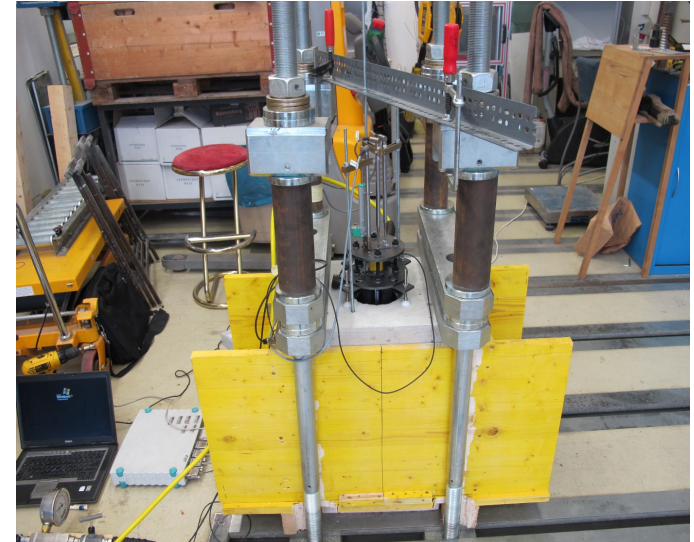


Tubbing Load Plate Tests to check the bedding

When using shield TBMs, prefabricated reinforced concrete segments are used as final outer lining. The required gap between lining and excavation boundary (=annular gap) is filled with a fine grained and closely graded gravel (= pea gravel).

Thereby, the back filled material provides the contact between the excavation boundary and the lining segments. Furthermore, the occurring rock loads should evenly distributed by the back filled material with an appropriate bedding.

To check the stiffness of the bedding, an already existing static load plate with probably some new modification can be used (see Fig.1). It will be necessary to investigate the influence of various boundary conditions on the test results.



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Fig.1: Load Plate test equipment