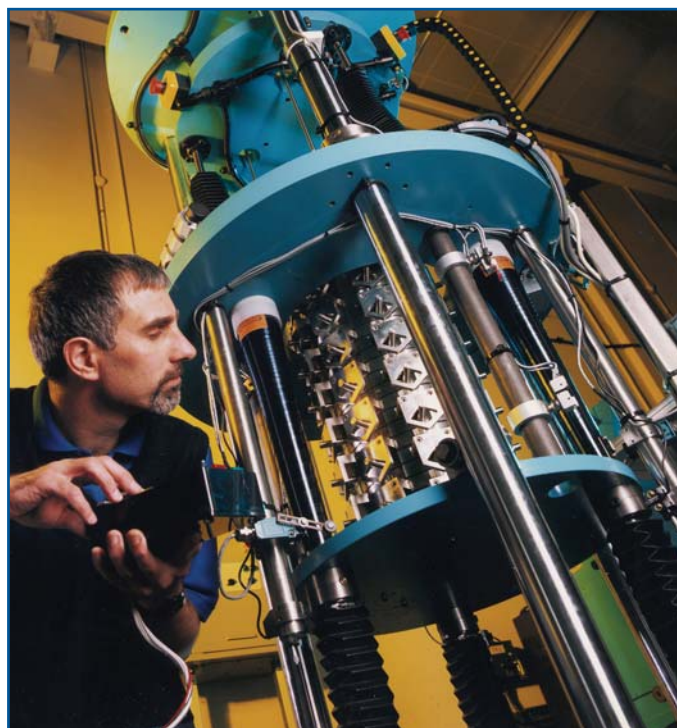


2.5 kN Deadweight Force Standard Machine

The machine was designed and manufactured at NPL and incorporates the following features:

- A rigid framework on solid foundations supporting both the device under test and the weights when at rest.
- A single crossbeam design minimises the weight of the scalepan. Adjustment of the compression or tension working space is achieved by means of a movable earth support frame.
- A computer control system which smoothly applies and removes the selected weights.
- The first weight is suspended from the scalepan and subsequent weight's from each other by three hangers and horizontal pins equally spaced on the weight's circumference. This arrangement allows the weights to self centre themselves both when applied and when at rest.
- The top weight is made from titanium - this was in order to keep the force increment small while maintaining the strength required to suspend the remaining weights. The scalepan and remaining weights are made from austenitic stainless steel, providing corrosion resistance, low magnetic permeability, and mass stability.



• APPLIED FORCES

25 N to 50 N in steps of 25 N
50 N to 500 N in steps of 50 N
500 N to 2.5 kN in steps of 100 N

• UNCERTAINTY OF APPLIED FORCE

±0.001% over full working range

• MODE OF OPERATION

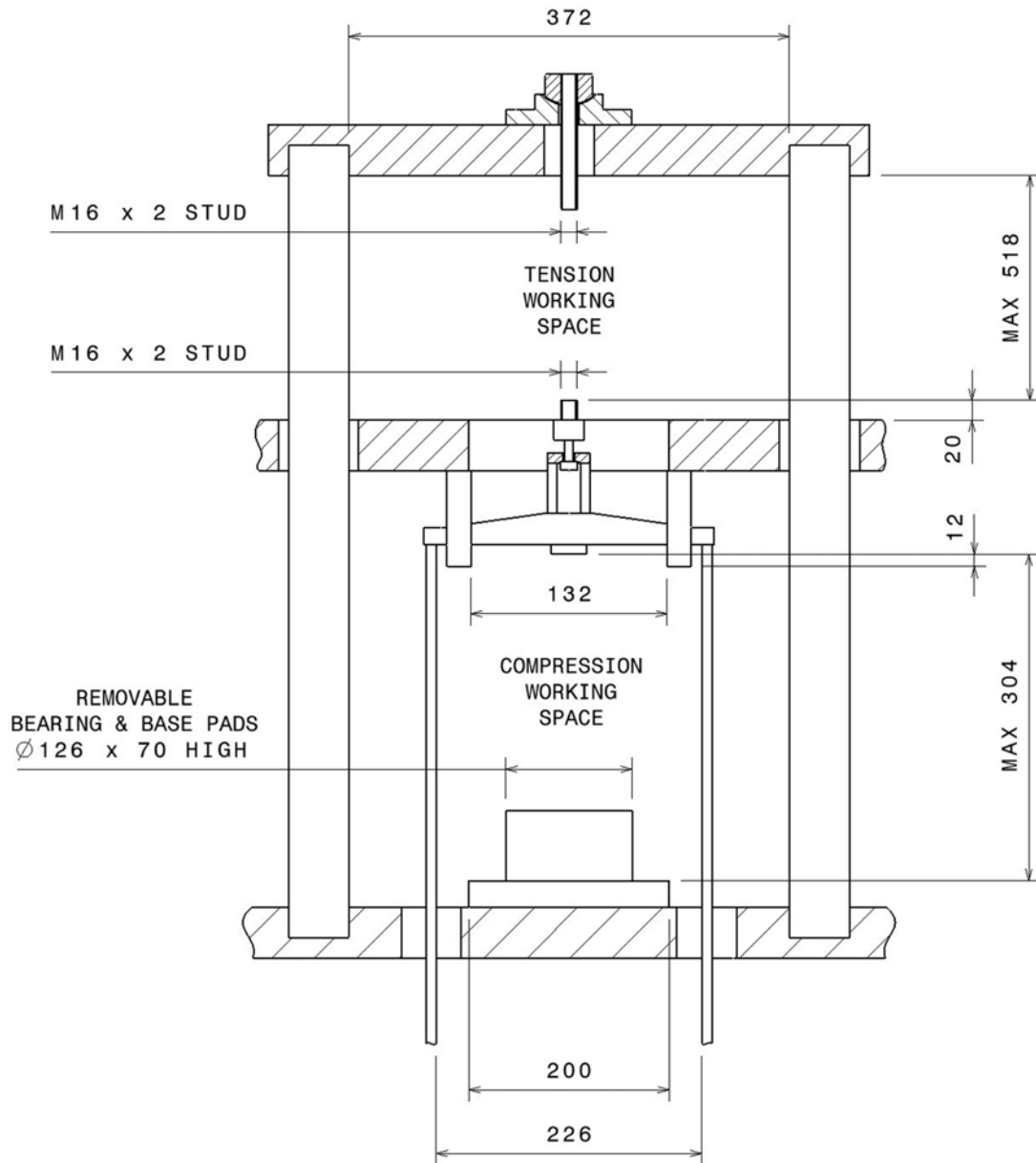
Compression and tension
Incremental and decremental loading

• CALIBRATION METHODS

BS EN ISO 376
BS 8422
ASTM E 74
Other relevant procedures

• MACHINE HIRE WITH EXPERIENCED OPERATOR

Testing to customers own procedures
Compound testing



For further information or to discuss your requirements, please contact us.

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