

5 MN Hydraulic Force Standard Machine

The 5 MN machine operates in conjunction with a 22 kN deadweight machine. As shown in the schematic arrangement the deadweight machine applies forces to a small pistoncylinder connected hydraulically to a larger piston-cylinder within the frame of the 5 MN machine. The pistoncylinders have no mechanical seal, allowing a constant leak of oil between piston and cylinder. The smaller cylinder is rotated about the piston to reduce friction. A servo valve controls the pressure to keep the scalepan and weights at a datum position.



- **APPLIED FORCES**

100 kN to 5 MN in steps of 1 kN

- **UNCERTAINTY OF APPLIED FORCE**

$\pm 0.05\%$ over full working range

- **MODE OF OPERATION**

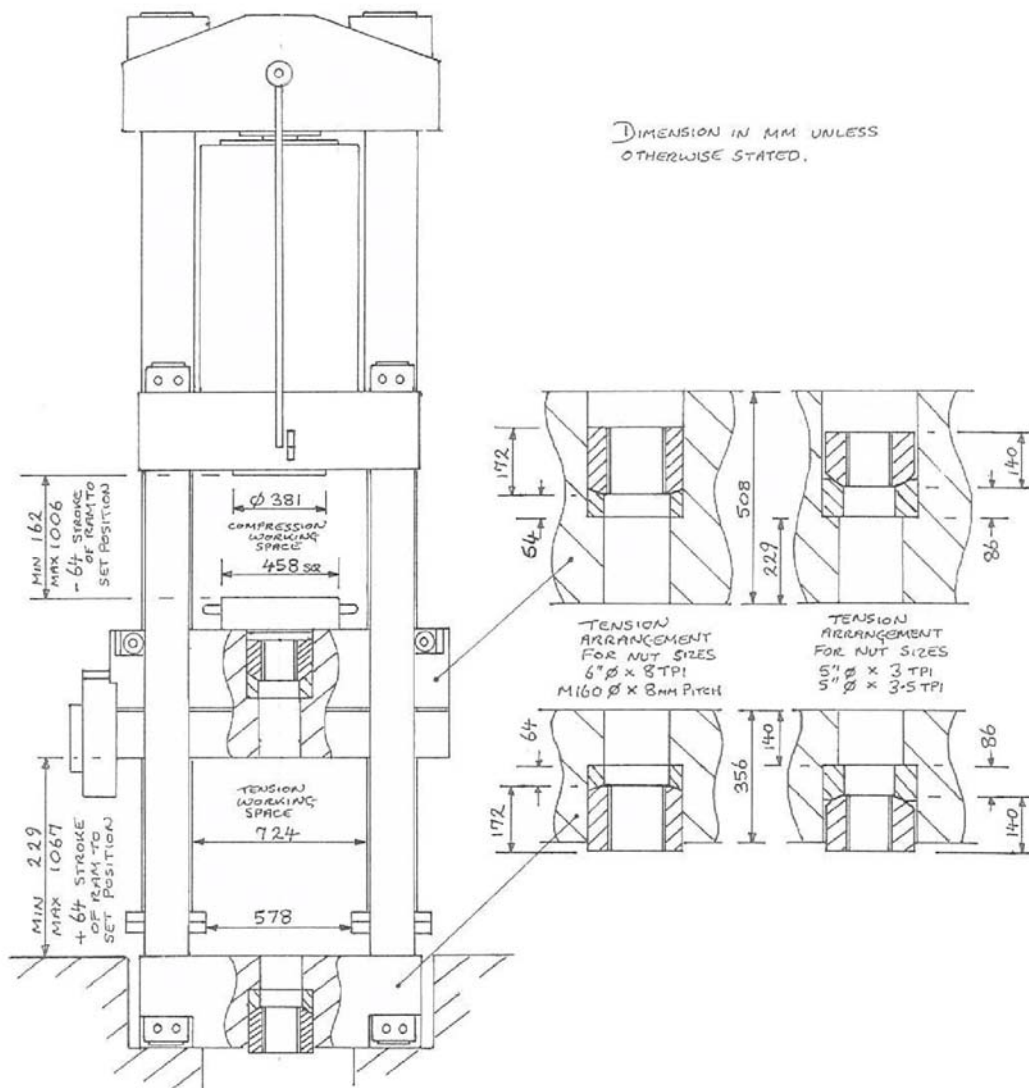
Compression and tension
Incremental and decremental loading

- **TYPES OF CALIBRATION**

BS EN ISO 376
ASTM E 74
BS 8422
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.

Direct line: 020 8943 6315

Fax: 020 8943 6184

E-mail: force_enquiry@npl.co.uk

Internet: <http://www.npl.co.uk/force/contacts>