

MULTISTAGE ROCK TESTING

Rock Mechanics Technology Ltd. is fully equipped to determine the comprehensive strength properties of samples using the multistage testing technique. This technique enables the strength of a sample to be identified at increasing confining pressures without the need to test numerous samples to determine the peak strength envelope. The company has over five years experience of multistage testing and interpretation of results as input parameters in computer modelling of excavation deformation.

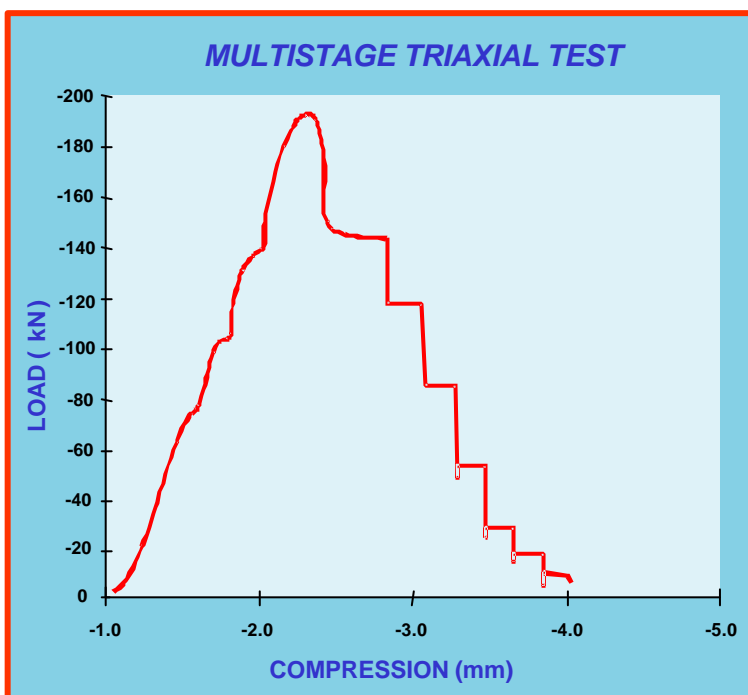
The samples are prepared in a fully equipped sample preparation laboratory to ISRM standards.

Testing is conducted in a 1000kN stiff test machine with a subsidiary load cell to enable accurate testing at low loads. Test cells are currently available for 30mm, 42mm and 44mm diameter samples. Confining pressures up to MN/m² can be accommodated.

The rock properties measured at variable confining pressures include: peak and residual failure envelopes, Young's Modulus and Poisson's Ratio. From these results the Mohr Coulomb rock properties can be determined: normal stress, shear stress and angle of internal friction.

The company has invaluable experience in:

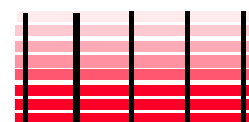
- Extensive experience testing and interpretation of results for computer modelling of excavations,
- Testing to ISRM standards using a specialist 100kN stiff test machine,
- Full reporting of peak and residual strength envelopes and Mohr Coulomb rock properties.



For further information contact :

**RMT Ltd., Bretby Business Park,
Ashby Road, Stanhope Bretby, Near Burton-on-Trent,
Staffordshire, DE15 0QD, United Kingdom.
Phone: +44(0) 1283 522201, Fax: +44(0) 1283 522279,
Email: rmt@rmtltd.com
Web site: www.rmtltd.com**

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