

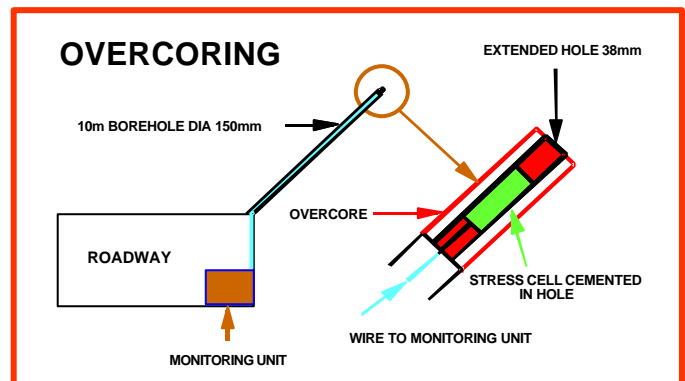
STRESS MEASUREMENT AND MONITORING

Rock Mechanics Technology Ltd has unrivalled expertise in stress measurement using the overcoring technique. Over 400 tests have been carried out, both in the UK and abroad, along with more than 100 stress change monitoring installations. The main instrument used is the CSIRO, 12 gauge, hollow inclusion (H) cell, for which RMT is the sole British agent. This well proven instrument has been successfully adapted by RMT for use in the conditions prevalent in the UK. For extreme conditions a new instrument, the ANZI cell, has been developed and is proving very successful.

Using these cells, the complete stress tensor can be measured allowing the magnitude and directions of the principal stresses to be obtained from one measurement. In addition to their main use in the Mining Industry stress measurements can be of great value to Civil Engineers for design verification, and determination of in-situ conditions.



- Stress team consists of four experienced engineers backed by resources of RMT
- Fully equipped with light-weight, compressed air driven drill rigs
- Unrivalled experience of stress measuring and monitoring in the UK, USA & Poland
- Mining applications include the determination of in-situ stress, monitoring of stress change, stresses in pillars and interaction areas, computer modelling verification
- Civil Engineering applications include measurements in building and dam foundations, tunnels and stressed concrete
- Sole British Agents for the CSIRO, HI stress cell and ANZI stress cell
- Continually developing techniques and equipment to ensure high success rates
- Comprehensive in-house software for results analysis and presentation



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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