

COMPANY OVERVIEW

RMT is a well established company with its dedicated staff having gained the wealth of expertise and experience necessary to provide underground mining solutions throughout the world. Located in the centre of the United Kingdom adjacent to the national motorway network and international airports of East Midlands and Birmingham the company is well situated to provide a truly worldwide service.



RMT work closely with their international partners and associates including those in Australia and Poland. An extensive range of simulation and testing equipment is used at the company's head office to assist in their geotechnical services. Design and manufacture of the company's full range of geotechnical instrumentation products including strain gauged rockbolts, telltales and extensometry systems is carried out on site.



Strain Gauged Rockbolt



RMT



For further information contact...

**ROCK MECHANICS
TECHNOLOGY LTD**

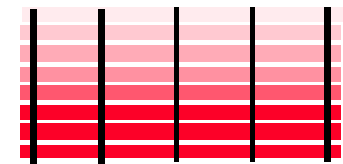
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**ROCK MECHANICS TECHNOLOGY
LTD**

MINING CONSULTANCY

Professional Engineering Consultants
Providing Geotechnical Design,
Worldwide



RMT

**Rock Mechanics
Technology**

Tel: + 44 (0)
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ROCK MECHANICS

Primary Functions

Rock Mechanics Technology (RMT) provide a comprehensive range of underground consultancy and research services and supply geotechnical instrumentation equipment for mines and tunnelling projects throughout the world.

Introduction of Advanced Rockbolting Technology

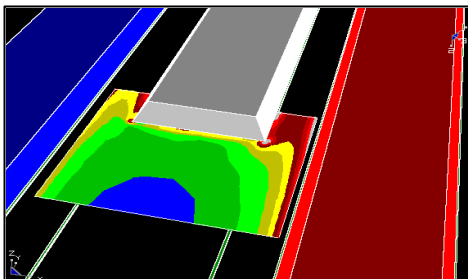
- Demonstration, and technology transfer of advanced Rock-bolting technology to coal and other mines.
- Comprehensive monitoring systems for safety and design
- Complete training packages.
- Full design service.



International Services

Mine Design

- Computer modelling 2D and 3D.
- Design and evaluation of layout and sequencing options.



Longwall modelling design

- Mine layout and pillar design for longwall and pillar workings.
- Design and evaluation of multi-seam extraction layouts.
- Measurement and monitoring of mine ground stresses and roadway deformation.
- Stress control strategies for minimising the effect of high stress concentrations in weak ground.



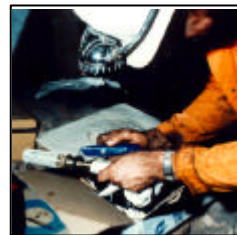
Underground Extensometry

Rock Reinforcement Design

- Rockbolting / Cablebolt / Ribbolt design for underground roadways.
- Reinforcement performance appraisal.
- Tendon and grout property optimisation.
- Design and application of field measurement systems to monitor reinforcement behaviour.
- Reinforcement system testing and evaluation.
- Rock testing.

Support Risk Assessment

- Risk Assessment for mine roadways.
- Support Audit and condition surveys.



Rock Stress Measurement

Instrumentation

- Design, manufacture and application of geotechnical instrumentation.
- Intrinsically safe instruments for methane atmospheres.
- Sales of stress measurement equipment.
- Extensometers.
- Telltales.
- Strain Gauged Bolts.

Longwall Strata Control

- Longwall face support assessment via underground monitoring.
- Data logging of key powered support parameters.
- Longwall caving analysis.
- Powered support capacity specification.

Tunnel Engineering

- Tunnel and shaft stability monitoring, instrumentation.
- Segmental concrete lining monitoring and load measurement and analysis.

Stress Measurement

- 2D and 3D measurements in rock and coal.
- Stress monitoring.
- Stress in shotcrete linings.
- Dedicated lightweight drilling rigs.
- Full analysis service.



Mining and Civil Engineering

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The IMC group is represented in more than 40 offices across 5 continents and resourced by over 400 staff world-wide

RMT is owned by IMC group holdings and SCT (Australia). Through its membership of the IMC group, the company can provide its clients direct access to an engineering skills and resource base unique in its depth and spread.



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ROCK MECHANICS TECHNOLOGY

GEOTECHNICAL CONSULTANCY AND INSTRUMENTATION SERVICES

Professional Engineering Consultants
Providing Geotechnical Design,
Worldwide



**Rock Mechanics
Technology**

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ROCK MECHANICS

Primary Functions

Rock Mechanics Technology (RMT) provide a comprehensive range of underground mining, tunnelling and civil engineering services and supply geotechnical instrumentation equipment for mines and tunnelling projects throughout the world.

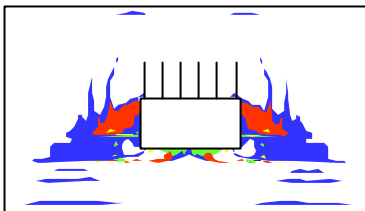


RMT is able to draw on a wide range of in house know how and experience to deliver state of the art, cost effective solutions right across the geotechnical engineering spectrum.

Geotechnical Design and Engineering

Offering a comprehensive investigation and design service on all ground related issues. Services are supported by the latest computer technology and a full range of technical, investigative and problem solving skills:

- Site investigations.
- Geotechnical surveys.
- Rock and soil testing.
- Reinforcement design.
- Computer modelling.



Computer model showing rock failure around a roof-bolted mine tunnel

Geological Measurement and Testing

Including unique expertise in measurements in deep tunnels and shafts:

- Rock stresses.
- Loads in concrete linings and structures.
- Rock and soil extensometry.
- Reinforcement tendon loads.
- Reinforcement system testing.
- Rock and soil testing.
- NDT of tunnel supports and rockbolts.

Instrumentation, Design, Manufacture and Supply

Designing and manufacturing geotechnical instruments on site, in addition to acting as agents for specialised instruments worldwide.

- Extensometers.
- Strain Gauged Rockbolts.
- Stress measurement and monitoring cells.
- Intrinsically safe instrumentation.

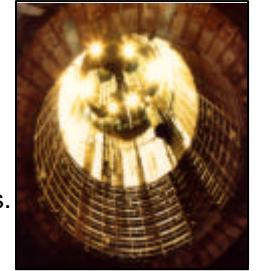


Strain Gauged Rockbolt

- Instrumentation development and prototyping.
- Production on site.

NATM and Concrete Lining Instrumentation

- Design, manufacture and application of geotechnical instrumentation.
- Intrinsically safe instruments for methane atmospheres.
- Magnesonic Extensometers, ideal for NATM applications.
- Vibrating wire stress cells.
- Stress measurement and monitoring in shotcrete and concrete.



Magnesonic Extensometer

Stress Measurement

- 2D and 3D measurements in rock and coal.
- Stress monitoring.
- Stress in shotcrete linings.
- Dedicated lightweight drilling rigs.
- Full analysis service.



Stress Cell