

Safety underground

Rockburst prevention



Full-service round about rockburst prevention

Coverpage: rockburst in roadway



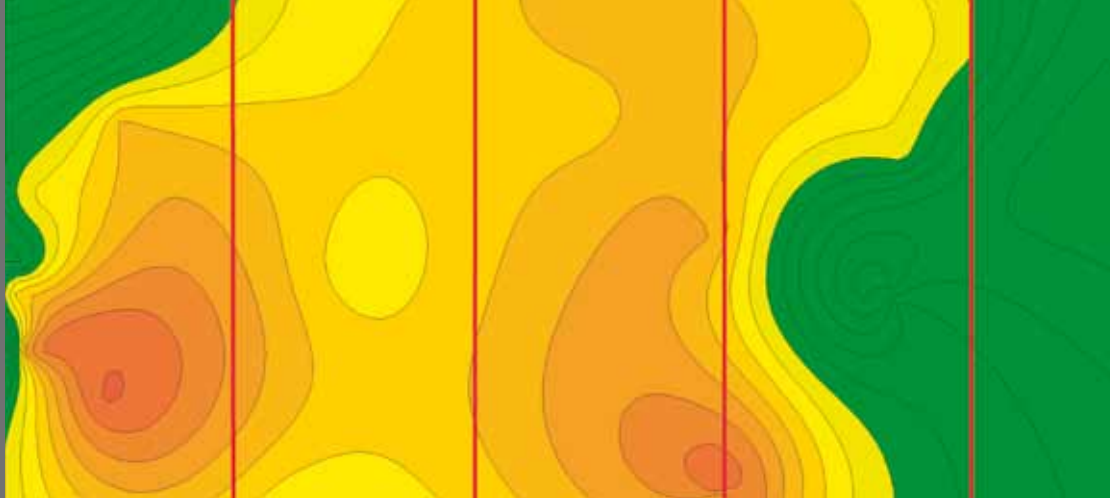
De-stressing drilling – elimination of rockburst hazards

Rockbursts in mining underground pose a hazard for men and material. The sequence of operations will be negatively influenced by rockbursts and all measurement aimed to rockburst prevention. Optimum layout planning of the underground workings and the identification of suitable rockburst hazard prevention measures calls for accurate and detailed knowledge on the local geological conditions. Precautionary measures – properly planned and carried out in time – lead to an efficient digging of rockburst-threatened coal seams.

Within the department “Rock mechanics” the experts of rockburst prevention represent the notified expert body “Rockburst prevention”. Our legal authorized experts are accredited by the German mining authorities. Focus of their work is the evaluation of potential rockburst hazardous areas and the consultancy service for planning an execution of measures aimed at prevention of rockbursts.

Our emergency callout team is on stand-by round the clock for rockburst prevention duties.

To gain the maximum size of safety we train your specialized staff. By means of regular additional training sessions and instructions we keep your staff state-of-the-art concerning rockburst prevention.



Consultancy service

Our experts provide support and advice in a variety of ways:

- Consultancy for the detection and reduction of rockburst hazards
- Selection of the most appropriate methods and equipment for risk elimination
- Mine layout planning taking into account the rockburst hazard
- Use of prevention measures to reduce rockburst risk
- In-situ risk assessment and recommendation on actions required
- Expert reports and surveys
- 24 hours stand-by emergency service

Operational and geological assessment

- Assessment of the in-seam rockburst hazard factor
- Assessment of the rockburst risk in the surrounding rock
- Assessment of the in-situ geology

Training and instruction courses

To help you maximising safety standards by deploying highly trained personnel we are able to provide the following specialised training and instruction courses:

- Basic courses for experts for testing and de-stressing measuring
- Regular refresher training
- Instruction in carrying out test and de-stressing drilling
- Instruction in carrying out de-stressing measures with blasting and water injection
- Preparation of operating recommendations and technical instructions.



Test drilling – detection of rockburst hazards

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