

3D tunnel scanning



On Surface and Underground



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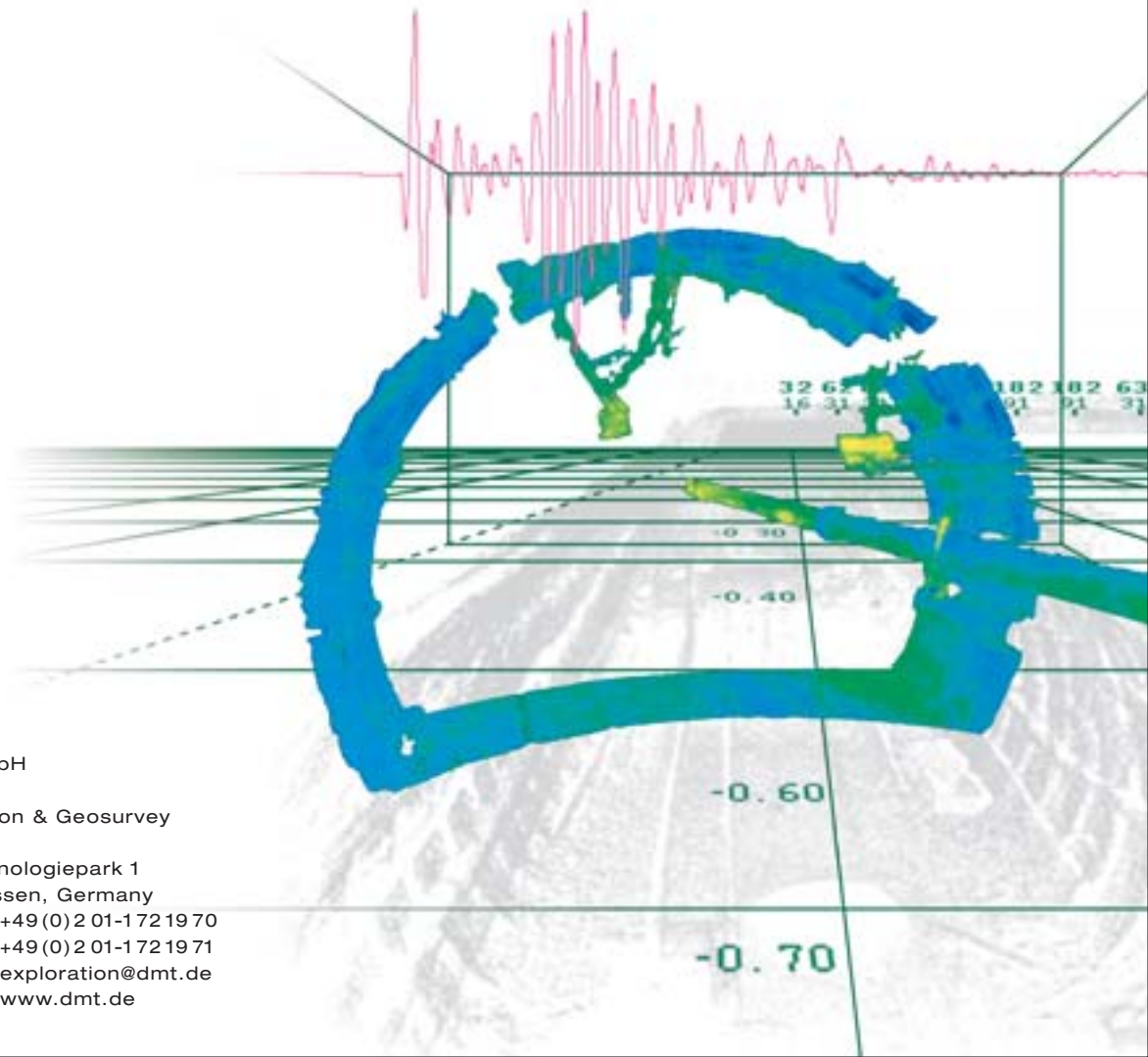
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Supervision of blasting work Vibrations from industrial plants

Monitoring of buildings

Gyroscope survey

Vibrations from construction sites

Onsite monitoring

Tunnel survey

Proven expertise

As a modern engineering service company we offer individual as well as complete solutions for all surface and underground surveying and monitoring work from the initial design stage right through to the implementation. For you this means more security in all your building projects based on our immense know-how and accurate surveying using advanced digital equipment – and of course in best interpretation time.

The DMT Engineering Surveying & Geomonitoring team comprises the best qualified specialists, engineers and technicians with many years of experience and a confident hand in each specific situation. Our team can help you in solving the most complicated tasks.

Even under extremely difficult conditions and immense time pressure, we guarantee the greatest accuracy and reliability to provide you with secure results in projects at home and abroad. We are well known for just that – with our customers in industry, civil and underground engineering, tunnelling and mining, with consultants, authorities as well as private persons.

Our hi-tech monitoring systems detect, prove and document even the smallest of changes and inform you in case of early warning or alarm immediately and reliably using the latest communication routes.

Read through our comprehensive service offering and decide on how we can help you. By working together you can take advantage of our creativity and innovative approach, our know-how and years of experience.

Vibration measurements since 1907
Gyroscope measurements since 1953
GPS measurements since 1987

Engineering Surveying

Tunnelling, mining and pipe jacking

- Orientation measuring with GYROMAT 2000/3000 and explosion-proof surveying gyroscopes
- Measuring and prediction of break-through points
- Shaft surveying
 - inertial and tachymetric surveying
 - tracking of shaft and cage guidance
 - plumbing and depth measuring
- 3D laser scanning
- Precision traversing
- Check survey, main traverse survey in mining
- Precision levelling

Engineering surveying

- Basic network setups
- Ground control point work
- GPS surveying
- High-precision 3D measuring of ground and building movements with real-time GPS and use of reference network services
- 3D laser scanning
- Special survey
- Customers specific survey

Photogrammetry

Terrain and structure survey

Geodetic inventory

Stake out
in large 2D and 3D seismic projects (>200km²)

Precision levelling

General surveying
GPS and total-station measuring, levelling, laser scanning and interpretation

Consulting and geodetic project management

Gyroscope expert body
„Kreiselmessstelle“

Calibration laboratory of the German Calibration Service (DKD)

Geomonitoring

Structural monitoring

Procuring geodetic evidence

- Measuring of deformation and subsidence
- Observation lines
- Online monitoring with GPS and total stations for permanent surveillance

Monitoring of buildings

Terrain monitoring

Radar interferometry

Immission protection

- Measuring/prediction
- Approval procedures
- Immission reduction measures

Construction vibrations

- Measuring/prediction
- Pile-driving vibrations
- Vibrations from demolition work
- Vibrations from compaction work
- Vibrations from explosions

In traffic vibrations

- Measuring/prediction
- Road traffic
- Rail traffic

Vibrations from industrial plants

- Vibrations from machines
- Dynamic loads
- Site assessment
- Interactions
- Vibrations reduction measures

Engineering seismology, passive seismics

- Time-synchronous seismic networks
- Highest sensitivity seismic instruments
- Localisation
- Fracture analyses
- Measures to reduce or assess seismicity

Inclination monitoring

Convergence measuring

Extensometer measuring

Monitoring of joints and cracks

Sound measuring

Temperature measuring

Early warning and alarm systems

Certified control centre approved in accordance with the Federal Immission Control Act (§26 BImSchG)