



Vibration and air blast studies help mines and quarries to proactively control and predict vibration and air blast from drilling and blasting, helping them comply with applicable standards and regulations and improve their drilling and blasting practices. Signature Hole Analysis is an advanced technique used to predict and control blast induced vibrations. MAXAM's Technical Application Group (TAP) uses RIOTRONIC electronic initiation systems, RIOBLAST software suite and other tools to design and successfully execute complex blasts.

APPLICATIONS

✕	Open pit
✕	Underground and tunneling
✕	Special applications
✕	Quarry and Civil construction

BENEFITS

Vibration calculations help define better blast design:

- ✕ Maintain operating license.
- ✕ Improve community relations.
- ✕ Reduce risk of vibration damage to structures and buildings vibration.
- ✕ Reduce risk of noise pollution and air blast damage.
- ✕ Reduced mineral loss.
- ✕ Optimize drilling and blasting.
- ✕ Improve ore extraction methods.
- ✕ Extend mine life in environmentally sensitive areas.
- ✕ Increase blast size.
- ✕ Reduce blast frequency.

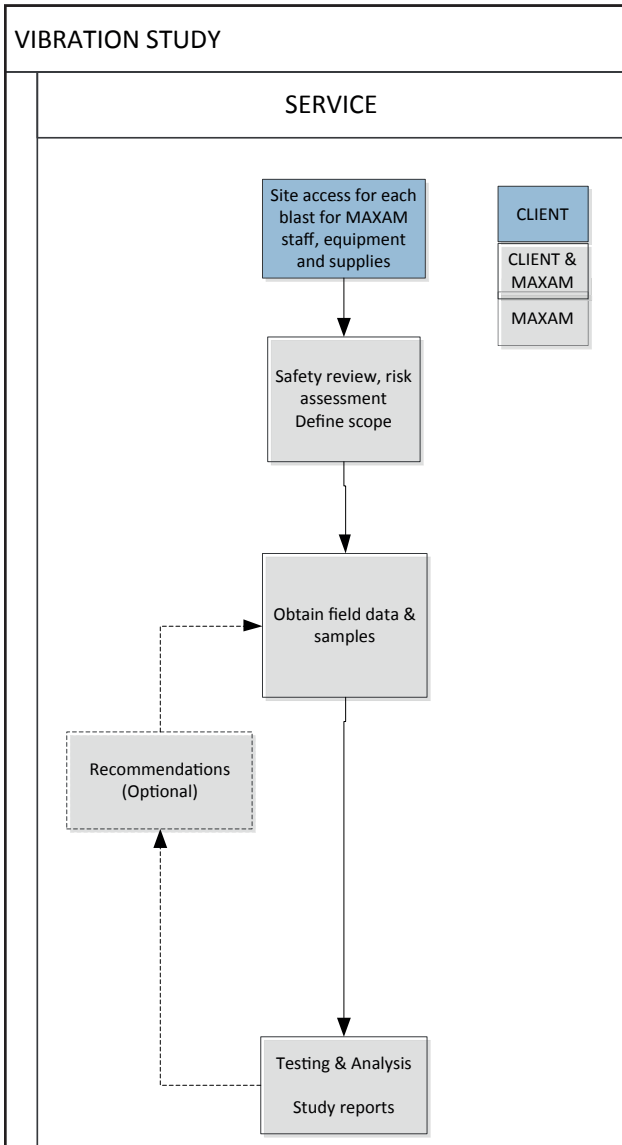
EQUIPMENT

Standard seismographs and additional accessories – accelerometers, hydrophones, multichannel receivers– are used in vibrations analysis. Specific wave analysis software is necessary as well; RIOBLAST is MAXAM's special software for that purpose.

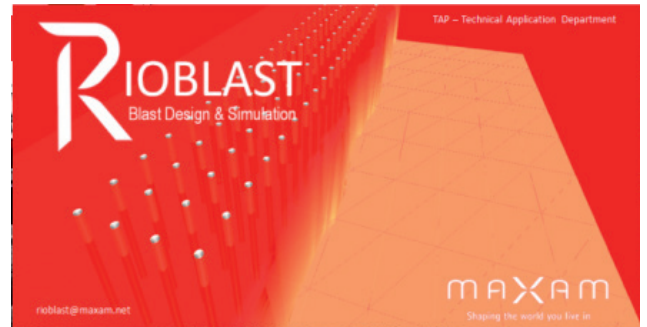
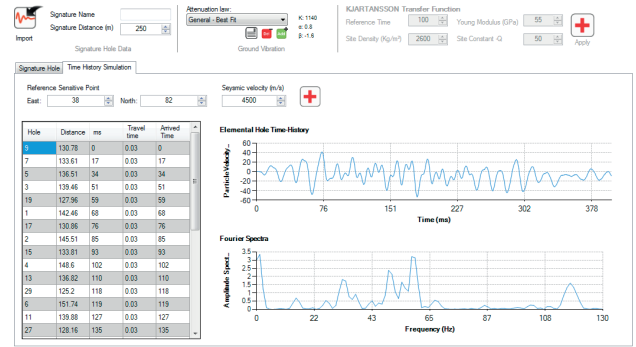
MAXAM's experienced technicians use state-of-the-art technologies and tools and MAXAM's global expert network to design and implement short and long term vibration and air blast control programs.



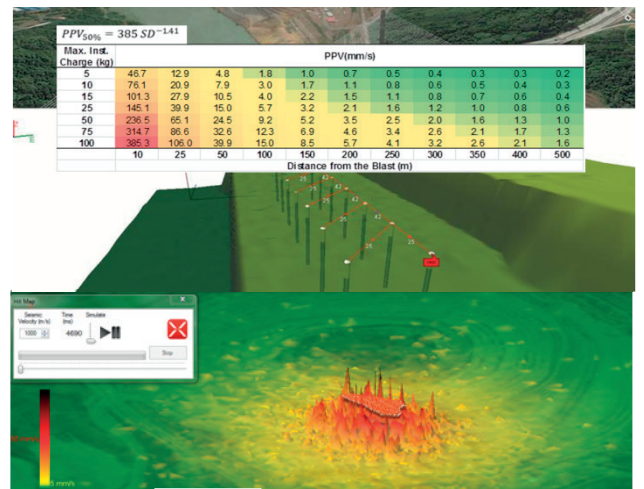
METHODOLOGY



Call to explore how MAXAM Blasting Solutions can help you add value to the mine cycle by improving safety, reducing environmental impact, reducing costs and increasing transparency.



MAXAM's RIOBLAST software suite uses waveforms recorded from signature holes to help design customized blasts, delay timings and initiation sequences



3D simulations predict expected vibration profiles

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