



DRILL & BLAST (D&B) Services are designed to provide Drilling & Blasting solutions to customers who have their own blast design or who are interested to share blast design criteria with MAXAM, where the customer defines the scope of work, and approves the D&B designs prior to starting any work.

APPLICATIONS

✕	Open pit
✕	Special applications
✕	Civil construction
✕	Quarry

BENEFITS

MAXAM can provide full D&B services to its customers integrating also drilling works:

- ✕ Clear control of the drilling and blasting costs, by paying for both operations separately.
- ✕ Reduced investment and costs of operation and maintenance of drill rigs.
- ✕ D&B design and results forecast.
- ✕ Drilling.
- ✕ Improved inventory control of explosives.
- ✕ and accessories and improved regulatory compliance.
- ✕ Continuous Quality Control and Complete set of comprehensive Drill & Blast Reporting.

EQUIPMENT

MAXAM has a wide fleet of drilling rigs –owned and subcontracted–, focused on medium size mining, quarrying and civil construction works:

- ✕ Atlas Copco.
- ✕ Sandvik.
- ✕ Others.

METHODOLOGY

MAXAM's experienced drilling and blast technicians use state-of-the-art technologies and tools and MAXAM's global expert network to design and implement long term Drill & Blast operations anywhere in the world.

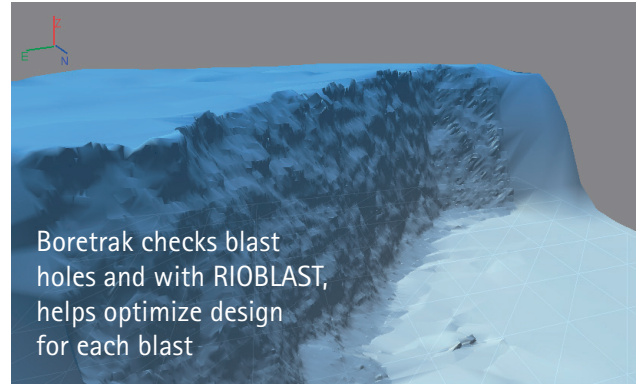
MAXAM tools use field information to develop and calibrate predictive models used to control all risks like fly-rock, vibrations, misfires or cutoffs.

All operations comply with internationally accepted standards and guidelines, and meet stringent safety requirements. Risk assessments and safety reviews are an integral part of all MAXAM Blasting Services

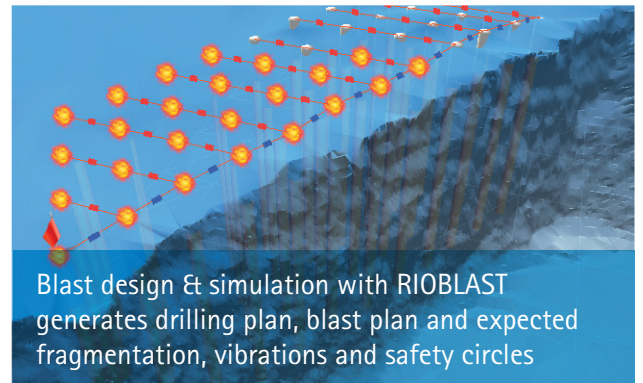


METHODOLOGY

Before Starting	Service
Define scope of work	Rolling production forecast
Responsibilities Contacts Conflict resolution	Site access for each blast for MAXAM staff, equipment and supplies
Drill & blast specifications (site specific information, rock production schedule, safety, environment, vibration and other requirements (daily, weekly, monthly, annually), fragmentation, oversize, undersize, ... etc.)	Safety review, risk assessment
Drill & blast program, KPI and report definitions (rolling production forecast, MAXAM resource assignment and supply chain (equipment, staff, supplies of explosives and accessories, ... etc.)	Blast site survey, Blast design, Drill plan, Blast plan
	Customer approval
	Drilling and and drill audit (CLIENT OR MAXAM)
	Loading, priming, tie-up, stemming and shooting
	Site check Blast reports KPI update
	Daily and monthly reports



Boretrak checks blast holes and with RIOBLAST, helps optimize design for each blast



Blast design & simulation with RIOBLAST generates drilling plan, blast plan and expected fragmentation, vibrations and safety circles



MAXAM's highly trained staff load, prime, stem and tie-up the blast using state-of-the-art equipment, advanced explosives and initiation systems



Blasts are recorded and fragmentation is measured for each blast

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.

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