NEXT GENERATION BLASTIQ™

INTEGRATED TECHNOLOGY SOLUTIONS TO OPTIMISE EVERY BLAST

The next generation BlastIQ™ Platform is a cloud-based digital platform designed specifically to enable continuous improvement of blasting outcomes by integrating data and insights from digitally connected technologies across the drill and blast process.

From pre-blast modelling through to post-blast measurement and analysis, the BlastIQ™ Platform delivers the data, benchmarks and insights needed to ensure sustainable, cost-effective improvements in blast performance at your operations.

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BlastIQ™ solutions can deliver sustainable improvements that:

Reduce the overall cost of drill and blast operations

Improve productivity

Improve safety

Facilitate regulatory compliance

BLASTING SOLUTIONS ENABLED BY THE BLASTIQ™ PLATFORM

Blast Information Management

BlastIQ™ enables you to digitally manage drill and blast information and processes, providing a secure, centralised online platform for collection and interpretation of data and insights across the entire blasting process. Advanced user and version control, as well as customised workflow management allows for rapid access to control and audit blast related data, facilitating better decision making and regulatory compliance.

Blast Design

Achieve optimal blast designs with SHOTPlus™, our market-leading advanced 3D blast design and modelling software. Blast designs can be viewed in spatial context, relative to neighbouring blasts and the mine landscape. Related mine information and blasting KPIs can be overlaid for rapid and enhanced insights, driving improvements in future blast designs and outcomes.

Integration with BlastIQ™ Platform, allows blast loading instructions and rules to be communicated to the field, ensuring the right explosives are used in the right place and initiated at the right time, every time.
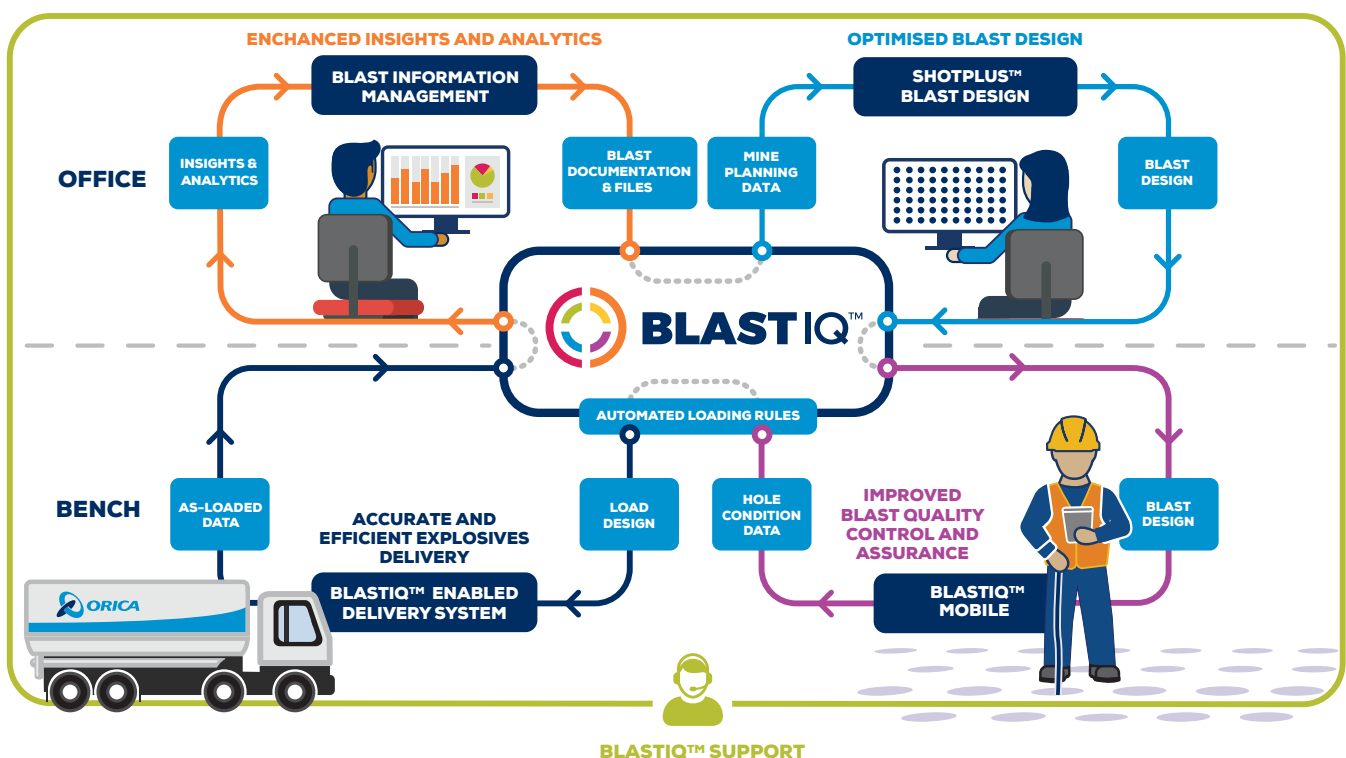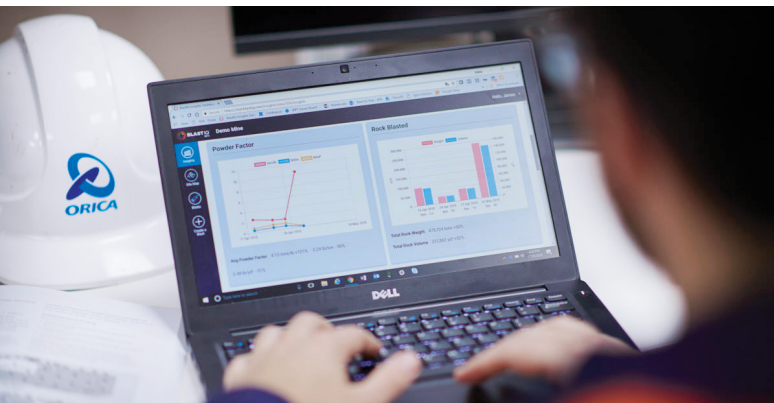
Blast Control

BlastIQ™ offers full control throughout the blasting process, delivering quality control management of blast design implementation through improved visibility and control of bench operations, to systemised access and implementation of design and loading rules.

Blast crews use technologies with seamless connectivity to our market-leading 3D blast design tools, automated loading rules and efficient capture of auditable data from the bench in real-time. All devices are synchronised automatically, so everyone is using the latest data and exceptions can be managed.

Efficiency and control is further enhanced by the world-first integration between the delivery control system, and blast design and quality management system. BlastIQ™ enabled delivery systems accept blast designs, receive and respond to updated blasthole conditions, load to instruction, and automatically communicate as-loaded data and presents insights and analytics in BlastIQ™, in real-time.

ENCHANCED INSIGHTS AND ANALYTICS

OPTIMISED BLAST DESIGN

BLAST INFORMATION MANAGEMENT

SHOTPLUS™ BLAST DESIGN

OFFICE

INSIGHTS & ANALYTICS

BLAST DOCUMENTATION & FILES

MINE PLANNING DATA

BLAST DESIGN

BLAST IQ™

AUTOMATED LOADING RULES

BENCH

AS-LOADED DATA

ACCURATE AND EFFICIENT EXPLOSIVES DELIVERY

LOAD DESIGN

HOLE CONDITION DATA

IMPROVED BLAST QUALITY CONTROL AND ASSURANCE

BLAST DESIGN

ORICA

BLASTIQ™ ENABLED DELIVERY SYSTEM

BLASTIQ™ MOBILE

BLASTIQ™ SUPPORT

WHO SHOULD USE BLASTIQ™:

- Drill and blast engineers
- Drill and blast operators
- Blast operations manager
- Mining, quarry and civil engineers
- Mining, quarry and civil consultants

BLASTIQ™ ADVANCED TECHNOLOGIES

The next generation BlastIQ™ Platform delivers a suite of enhanced technologies, empowering better decision making and increased control of blasting outcomes. The technologies in the BlastIQ™ Platform are designed to deliver economic and operational value individually, but the benefits are maximised when they are integrated in a systemised process.

SOLUTIONS	BLASTIQ™ PLATFORM	SHOTPLUS™	BLASTIQ™ MOBILE	BLASTIQ™ ENABLED MMU™
Blast Information Management	✔			
Blast Design	✔	✔		
Blast Control	✔	✔	✔	✔

BlastIQ™

BlastIQ™ is a secure cloud hosted platform which provides effective storage, management, sharing and referencing of all blast-related information. BlastIQ™ can assist blasting professionals and teams to improve blast designs, achieve better quality blasts and reduce overall costs. Design, drilling, loading and initiation documents can be viewed in a central location, making it easy to access blast history and key performance indicators (KPIs), enabling the continuous improvement of blasting outcomes.

SHOTPlus™

SHOTPlus™, our advanced 3D Blast design and modelling software, allows engineers to design, analyse and optimise every blast across surface and underground mining, quarry and construction applications. SHOTPlus™ provides you with the tools and support required to improve your productivity, safety and environmental performance.

BlastIQ™ Mobile

BlastIQ™ Mobile enables accurate and efficient recording of blasthole data. Blast pattern designs can be imported from SHOTPlus™ or created in real-time during dipping or loading operations. Blasthole parameters such as depth and hole condition are electronically captured on bench. This enables quality assurance of drilling operations and confirmation of hole status, prior to commencing loading. Volume of explosives and stemming material loaded is recorded and can also be used to adjust the loading instruction at point-of-load.

Hole identification functionality available in both BlastIQ™ enabled delivery systems and BlastIQ™ Mobile improves in-field blast quality control and assurance. The hole position identification feature helps operators to easily identify holes on-bench, reducing errors from potential confusion over hole identification and ensuring accurate recording of which holes have been dipped or loaded. BlastIQ™ Mobile can also be utilised for loading instruction provision for non-Orica delivery systems.

"WITH BLASTIQ, WE GET THE RESULTS WE REQUIRE"

Brodie Bolton
Production Manager, Boral Dunmore

BlastIQ™ enabled delivery system

Orica's Bulkmaster™ 6 & 7 Mobile Manufacturing Units (MMU™s) are integrated with the BlastIQ™ enabled smart control system technology, allowing for the delivery of products transparently and accurately in accordance with site requirements.

Loading designs and actual as-loaded product data is automatically recorded and sent back to BlastIQ™ in real-time for reporting and insights. With direct integration and synchronisation of data between the office, bench and delivery system in real-time, the BlastIQ™ enabled delivery system delivers the next generation of precision and efficiency in explosives delivery.

As - loaded
Fortan™:
18.3 / 18.5 m
460 / 503 kg

ENSURING YOUR SUCCESS WITH BLASTIQ™

Our comprehensive training, support and Customer Success Program is aimed at tailoring each BlastIQ™ implementation specific to your individual site needs. Our structured implementation program, and access to world-class blasting and technical expertise ensures rapid deployment and integration into your operations, maximising the value delivered and increasing productivity, cost reduction and regulatory compliance across your blasting operations

KEY FEATURES OF THE NEXT GENERATION BLASTIQ™

- Smarter analytics and insights
- More responsive interface
- Improved user experience
- Data integration capability
- Scalable and robust
- Improved customer support
- Multilingual language support available

To learn more about the BlastIQ™ Platform and how it can support your operations today, please contact your local Orica representative, or visit orica.com/BlastIQ