

DEVELOPMENT OPTIMISER™

The development drilling process is heavily reliant on operator skill/ training. This reliance, combined with the inherent complexities of underground mining often results in inaccurate and inconsistent drilling, which in turn produces poor development blasting outcomes.

Typically these outcomes are unplanned overbreak and dishing of the face, which increases haulage cost and reduces rate of advance. The net is slower and more expensive development drilling, reducing NPV for asset owners and decreasing margins for contractors.

Minnovare's Development Optimiser™ system combines advanced hardware with a digital platform to improve the drilling accuracy to ensure the drilling is as per the design.

Increase Accuracy.
Reduce Over-Break.
Increase Advance.



KEY VALUE



Achieve Optimal
Blasts to Plan



Improved
Drilling
Accuracy



Reduced
Over-break



Reduced
Under-break



Increased
Rate of
Advance



Consistent
blasting outcomes,
regardless of
operator experience

Key Benefits

The system allows operators of all levels of skill and experience to accurately bore in line with design, to deliver more consistent blasting outcomes for every cut. The result is more optimal blasts, reduced over-break and increased rate of advance. This delivers a lower cost/faster development drilling process. Highly accurate and applicable for use on ALL development drill rig makes and models.

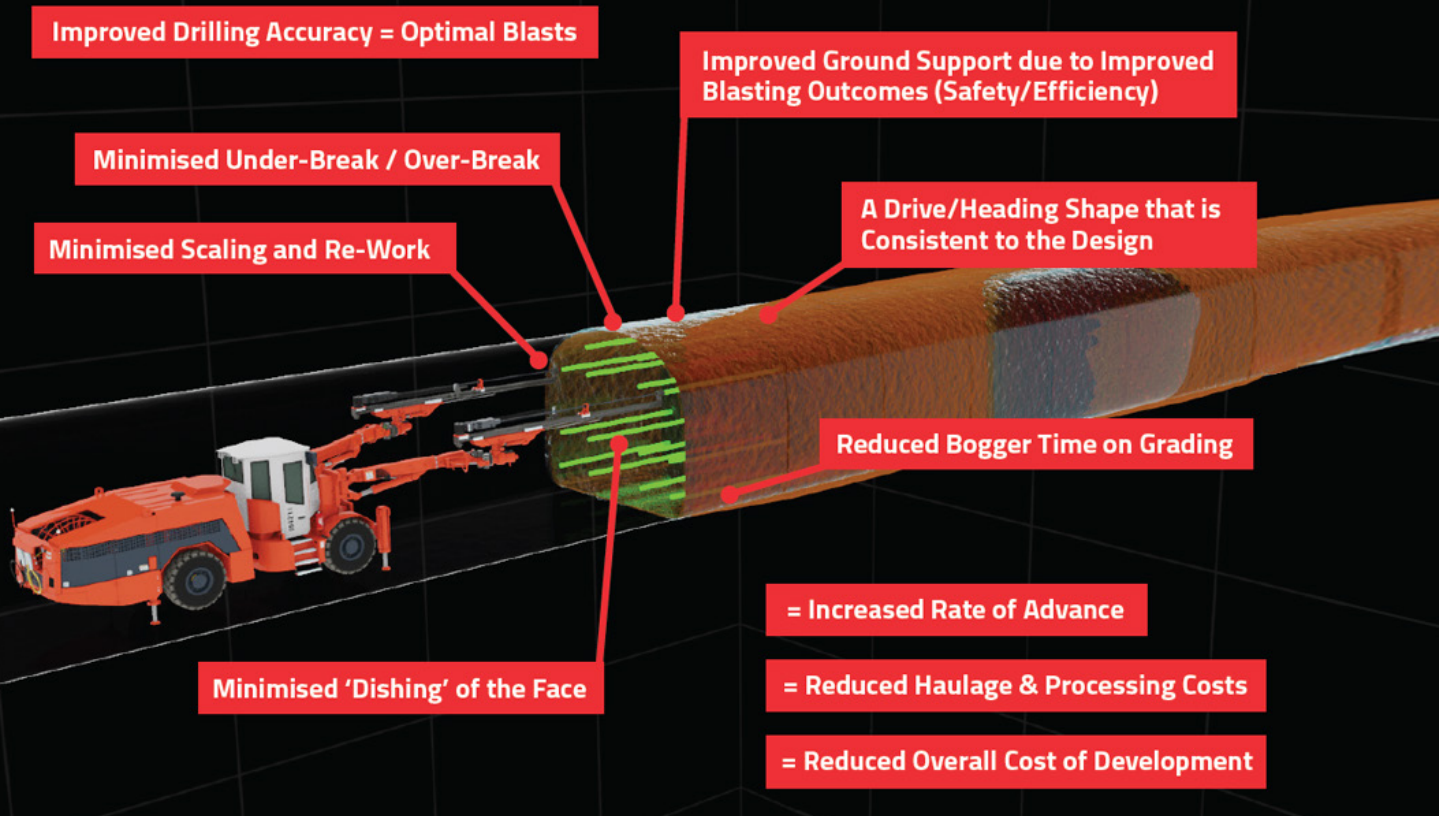
Improve Drilling Accuracy

- The Development Optimiser system delivers superior setup accuracy - the primary cause of blast-hole deviation;
- System maintains rail trajectory to designed target and parallelity between rails;
- Works independent of on-board systems;

Achieve Optimum Blasts / Cuts

- Reduce over-break / underbreak and dishing of the face;
- Improve fragmentation;
- Reduce associated operating costs (scaling, grading haulage and processing);
- Increase the rate of advance;
- Increase drilling productivity with less time spent on rework and more time drilling.

Features Summary / Technical Specifications



The Technology Ecosystem



Alignment Accuracy

The Development Optimiser significantly improves the alignment accuracy of the rig - leading to optimal blasts with each cut: Minimal over-break/under-break and maximum advance.



Minnovare CORE™

Minnovare's Client Online Reporting Engine (CORE), includes digital drill plans (Digi-Plan) that capture all real-time drilling data, which can later be exported to mine planning software for analysis.



Set the 'TARGET'

Once the rail is aligned to the designed trajectory, the driller sets the 'TARGET' on the touch screen interface mounted inside the rig cabin - locking in the trajectory for every hole and removing all guess-work.

Take Control of your Drilling Data

- Wireless system interface - featuring digital drill plans (Digi-Plan) via Minnovare CORE;
- Digi-Plan module - no more time consuming, unreliable paper system: Access real-time drill data right across your operation;
- Integrates seamlessly with your rig and mine planning / drill and blast software - for direct import and export of drilling data;
- Low cost of implementation, low maintenance system. 24hr global support team on-hand.

