

**Improve Drilling Accuracy**

**Achieve Optimal Blasts**

**Reduce Over-Break**

**Reduce Under-Break**

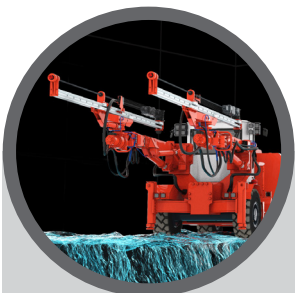
**Increase the Rate of Advance**

**Consistent blasting outcomes, regardless of operator experience/proficiency**



# DEVELOPMENT OPTIMISER™

Minnovare's Development Optimiser™ system combines advanced hardware with a digital platform that is applicable to all makes and model of development drills. The system substantially improves drilling accuracy - leading to optimal blasts, reduced over-break/under-break and increased advance.



**Increase Accuracy.  
Reduce Over-Break.  
Increase Advance.**

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.

**SET  
TARGET**

**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.



MINNOVARE™  
**CORE**

**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.

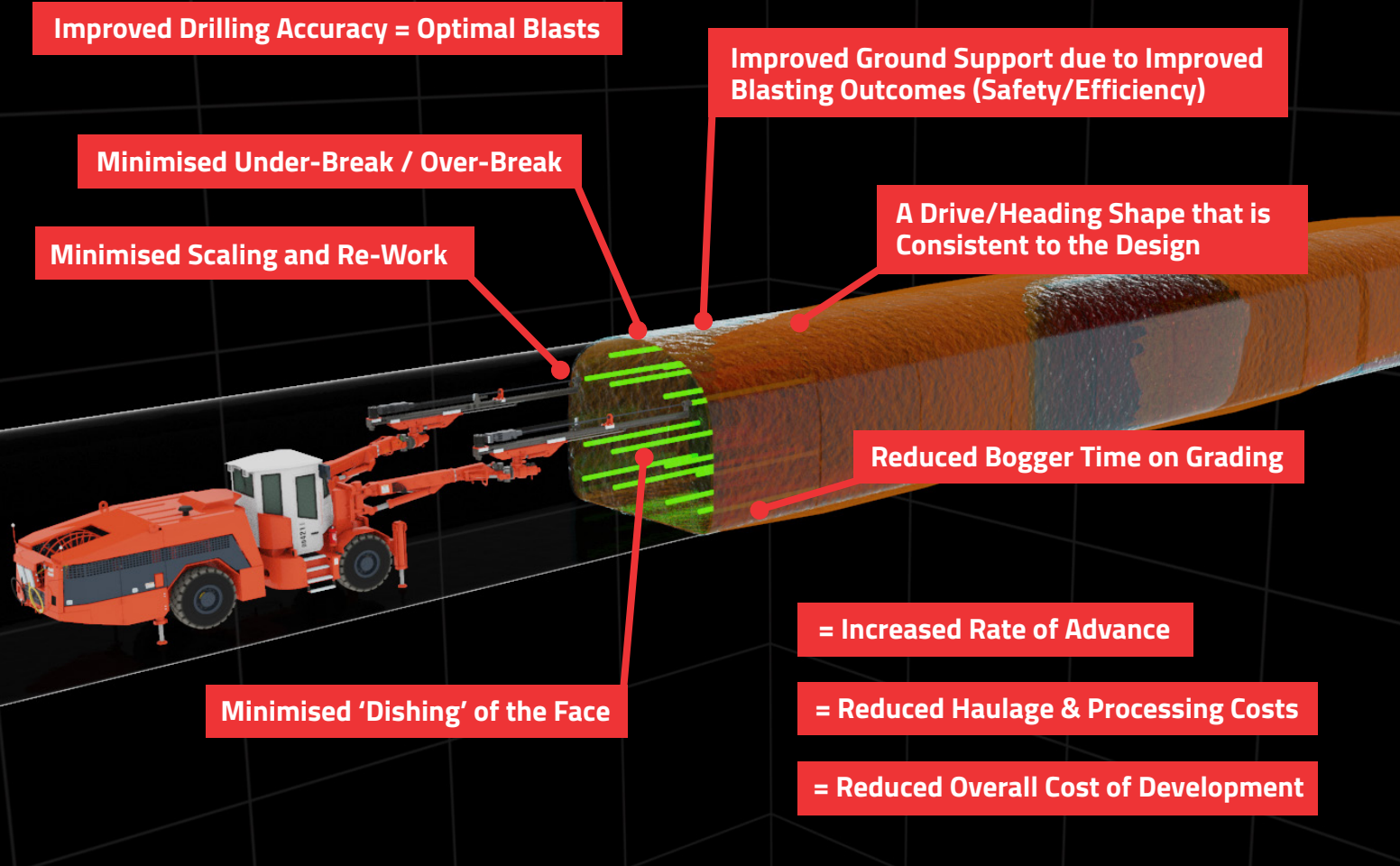


**Smart Collar™**

*Reposition. Re-calculate.  
Hit the target!*

Recalculate new collar positions in real-time, with alignment precision to the planned toe (if the originally marked collar is obstructed due to rock-bolts / space).

# Features Summary / Technical Specifications



## Primary Features & Benefits

Highly accurate and applicable for use on ALL development drill rig makes and models. Consistent drilling outcomes, regardless of operator experience.

### 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 independently of laser-line, leveling and other on-board rig alignment systems;
- 🕒 Smart Collar; automatically recalculates holes with obstructed collars.

### Achieve Optimum Blasts / Cuts

- 🕒 Reduce over-break / under-break 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 re-work and more time drilling.

## 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.



[www.minnovare.com](http://www.minnovare.com)

Drill faster, cheaper, more accurately.

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