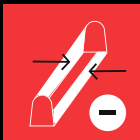


**Reduce Deviation.**  
**Reduce Dilution.**  
**Increase Recovery.**

## KEY VALUE



Reduce  
Blast-Hole  
Deviation



Reduce  
Dilution



Increased  
Drilled  
Meters



Reduce Over-Break/  
Under-Break and  
Secondary Drill and Blast



Increase Ore  
Recovery



Real-Time Digital Drill  
Plans and Plods with  
Minnovare CORE™

## The Technology Ecosystem



### **Reduce Deviation. Reduce Dilution. Increase Recovery.**

Thanks to superior accuracy at the collar and a host of unique features, the Production Optimiser system revolutionises the efficiency of drill & blast operations.



### **Minnovare CORE™**

Client Online Reporting Engine (CORE) includes digital drill plans and plods that sync seamlessly with mineplanning software to facilitate unmatched data capture and visualisation.



### **The Opti-Box™**

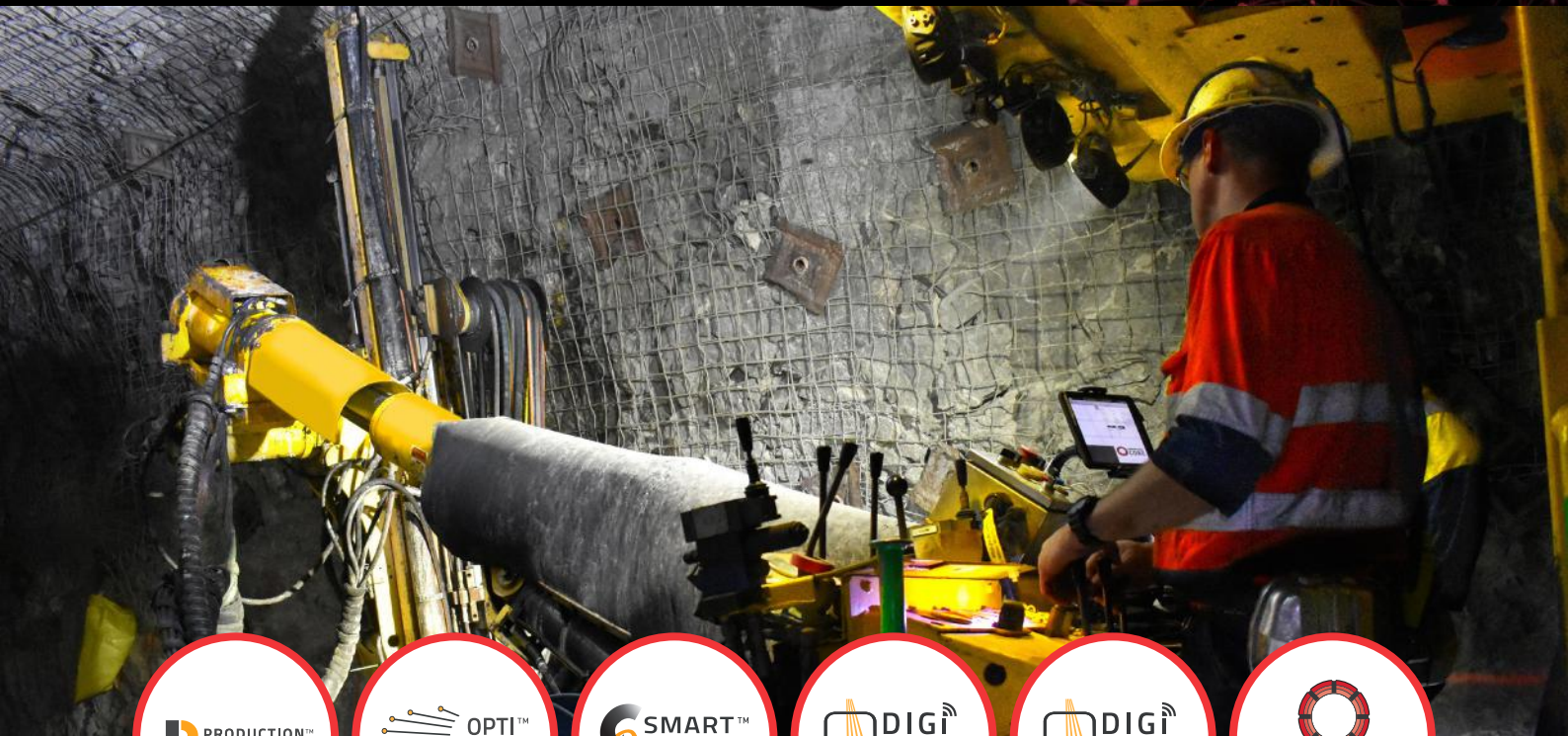
Auto-calculates the optimum boom 'dip' and 'dump' angle independent of the rig's on-board systems - reducing deviation at the collar, leading to a significant increase in holes drilled to within tolerance.



### **Smart Collar™**

Reposition. Recalculate. Hit the target! Smart Collar recalculates new collar positions in real-time should the marked collar be obstructed (due to rockbolts and/or confined spaces).

# Features Summary / Technical Specifications



## Primary Features & Benefits

Highly accurate and applicable for use on ALL production drill-rig makes and models, operating in either narrow vein or large stope mines.

### Reduce Collar Deviation

- The Production Optimiser system delivers superior setup accuracy at the collar - the primary cause of blast-hole deviation;
- Substantially increases the number of holes drilled to within tolerance at the toe;
- Works independently of laserline, levelling and other on-board rig alignment systems;
- Smart Collar; automatically recalculates holes with obstructed collars.

### Achieve Optimum Blasts

- Reduce dilution;
- Improve fragmentation, limit over-break and under-break;
- Reduce associated operating costs (milling, mucking, haulage, downtime and secondary drill and blast);
- Increase ore recovery, profitability and net present value (NPV);
- Low cost of implementation, minimal training and setup required.

## Take Control of your Drilling Data

- Wireless system interface - featuring digital drill plans and plods via Minnovare CORE;
- Digi-Plan and Digi-Plod modules - 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 maintenance system. 24hr global support team on-hand.

