

MINNOVARE™  
**CORE**

*The drilling data that  
drives decisions.*

**Unique Software Feature for Horseshoe / I-Beam Configuration Longhole Rigs**

**'Park' the Rig with Certainty Using Virtual Ring Lines on the Production Optimisers' Mobile Interface.**

**'Virtual' Ring Line Shown as per the Digital Drill Plan (Digi-Plan™) synced from Minnovare CORE™**

**Removes Human Error Arising from Reliance on Marked Ring / Laser Lines Alone**

**Actual Drill Data Synced Back to Minnovare CORE™ for QA/QC**

## 'PARK-MODE' FEATURE

Minnovare's Production Optimiser™ system comes with a unique 'Park Mode' feature for Horseshoe / I-Beam configuration rigs. Accurately position the rig to the planned ring plane with certainty.



### De-Risking Human Error (and Cost)

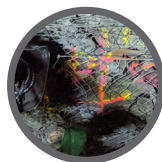
Relying on the accuracy of the rig operator to the marked laser lines alone presents the risk (and cost) of human error. Inaccurate mark-ups, uneven side walls, tight ring spacings; Park Mode removes these risks.

Park Mode holds the operator accountable with a virtual representation of the ring plane and recording of the park set up.



### Virtual Ring Line

Park Mode provides the driller with a virtual representation of the rigs' orientation to the planned ring / laser lines. The reading is provided in real-time as the rig lines up on each ring plane.



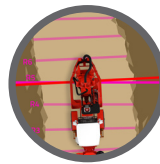
### Potential to Reduce Mark-Ups

Simplified survey mark up resulting from reduced need to mark both ring and laser lines.



### Greater Accuracy at Setup = Greater Accuracy at the Toe

Independent in-hole survey data has proven that the majority of blast-hole deviation occurs from errors made *prior* to the hole being drilled - up to 65% occurring at setup.

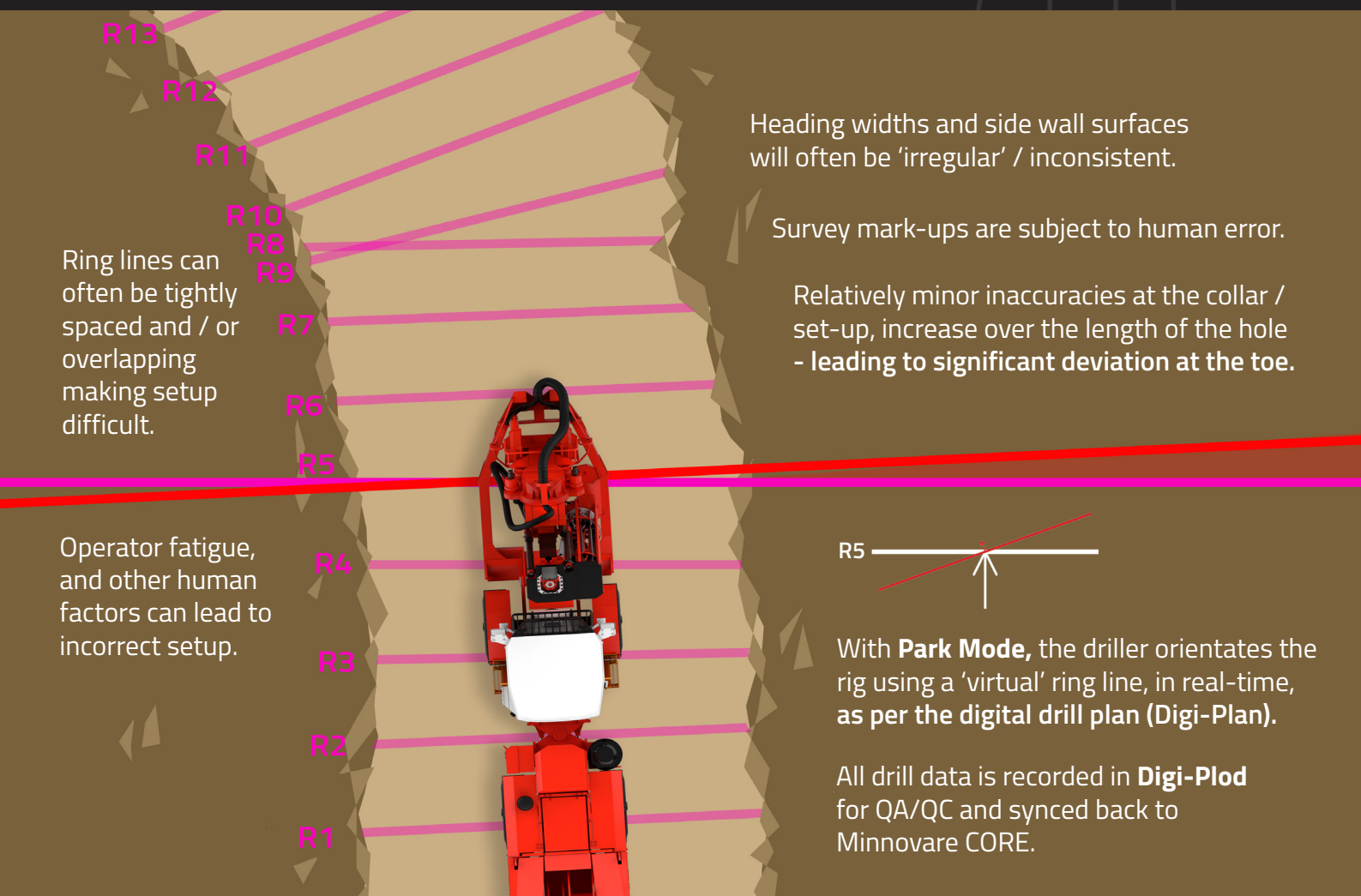


### Position Rail Correctly on Desired Drill Plane

Even though the driller parks the rig perfectly on the laser lines, there are inherent variances between the rig orientation and the rail's orientation due to mechanical wear and tear and uneven ground.

Park mode ensures that the rig is parked so that the rail is positioned correctly on the desired drill plane.

# Reducing the Risk (and Cost) of Human Error



## Primary Features & Benefits

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

### Reducing Human Error

- Assists Horseshoe / I-Beam operators to accurately orientate the rig over the planned ring line with certainty;
- Removes the risk (and cost) of inaccurate mark-ups, uneven walls and surfaces, drilling on the wrong plane;
- Simplified survey mark-up results from the reduced need to mark both ring and laser lines.

### Achieve Optimum Blasts

- Park Mode is a feature of the Production Optimiser system; delivering superior accuracy to underground drill and blast operations;
- Improve fragmentation, limit over-break and under-break;
- Reduce dilution and associated costs (haulage, processing and downtime);
- Increase ore recovery, return per tonne and overall net present value (NPV);

## Minnovare CORE, with Digi-Plan / Digi-Plod

- Take control of your drilling data with Minnovare's Client Online Reporting Engine (CORE), featuring digital drill plans and plods (Digi-Plan / Digi-Plod);
- No more unreliable, time consuming paper systems. Access and share real-time digital drill plans and plods across site;
- Integrates seamlessly with your existing mine planning software - for direct import and export of drilling data;
- Easy to implement, low maintenance system. 24hr global support.



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

Drill faster, cheaper, more accurately.

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