

MINNOVARE™
CORE

*The drilling data that
drives decisions.*

Unique Software Feature for Horse-Shoe / I-Beam Configuration Long-Hole Rigs

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

'Virtual' Ring Lines 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 Horse-Shoe / I-Beam configuration rigs. Accurately position the rig to the planned ring plane with certainty.



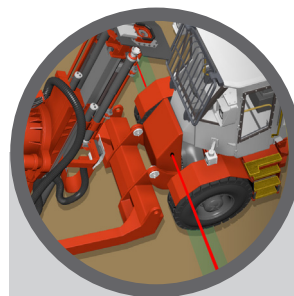
De-Risking Human Error (and Cost)

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.



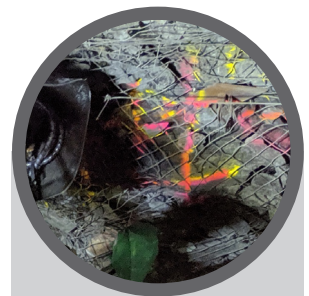
Virtual Ring / Laser Line Orientation

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.



Greater Accuracy at Setup = Greater Accuracy at the Toe

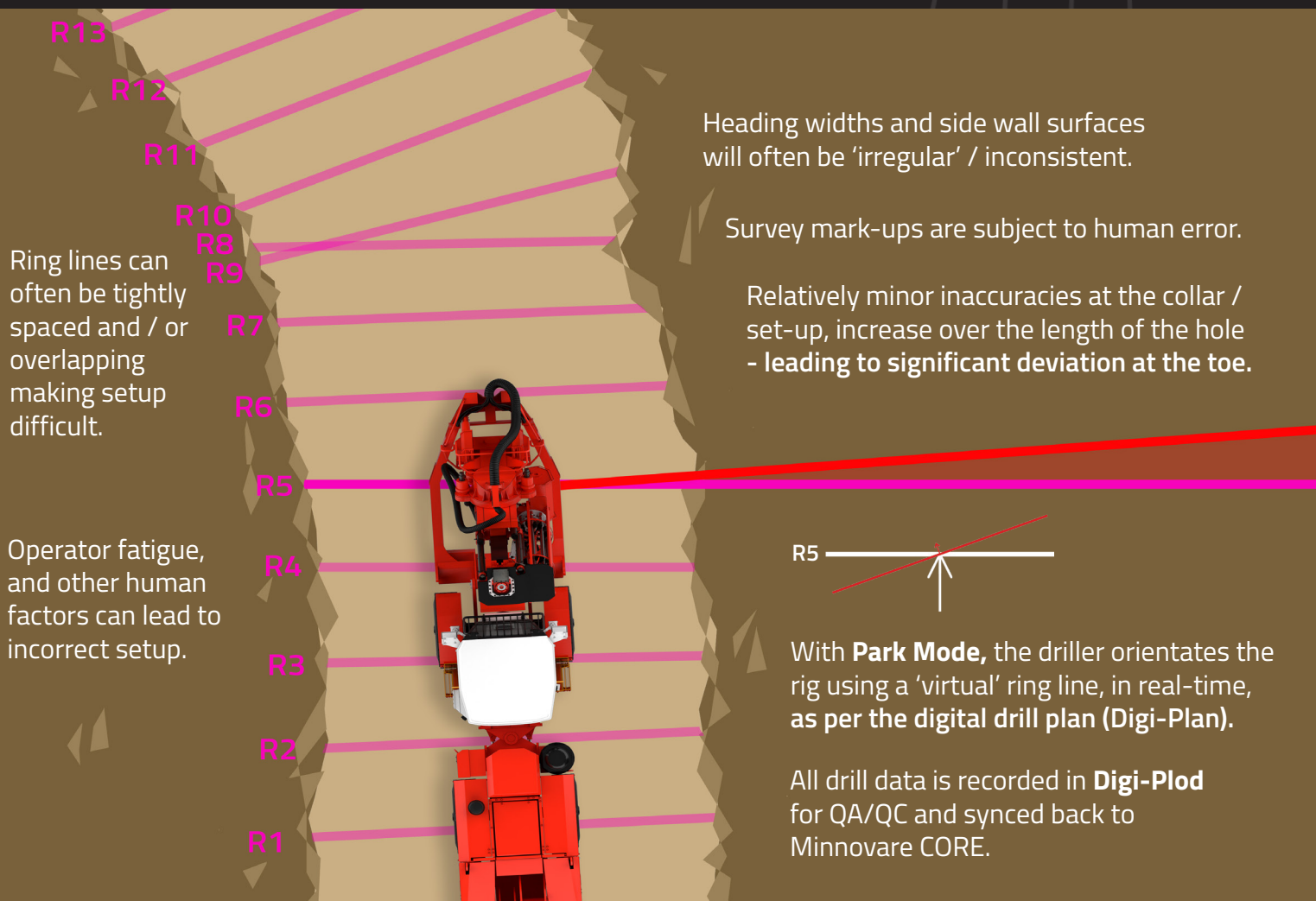
Independent in-hole survey data has proven that the majority of blast-hole deviation occurs from errors made *prior* to the hole being drilled - up to 70% occurring at setup.



Potential to Reduce Mark-Ups

With Park-Mode, laser line mark-ups on both sides of the heading can be reduced to a single back / forward marker on one side, depending on your operation; with potential to save on surveyor time and cost.

Reducing the Risk (and Cost) of Human Error



Primary Features & Benefits

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

Reducing Human Error

- Assists Horse-Shoe / 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;
- Laser lines can potentially be reduced to single-side mark-ups (back / forward reference point) - saving surveyor time and cost;

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 and processing, downtime and re-work);
- 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

Drill faster, cheaper, more accurately.

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