RPMGLOBAL

HaulSim

Simulation Solution

Accurately test your short and long-term planning assumptions

Increased Mine Productivity through Detailed Analysis

HAULSIM connects the fleet assets, mining operational plans and the people to build a 'digital twin' of any mining operation – open pit or underground to deliver an accurate representation of any mine site's haulage operations.

With a 3D Discrete Event Simulation (DES) engine at its core, HAULSIM is the only mining simulation software that can quantify the impact of changes to haulage systems. HAULSIM models reflect a mine site's complex and dynamic nature in its entirety. Model variability, interactions and dependencies that occur in your haulage systems.

The impacts of changes to a mine haulage system are based on accurate data with HAULSIM, giving the user the ability to test multiple 'why' and 'what-if' scenarios. This gives the opportunity to reduce operating costs through optimised performance and ensure overall operational safety and efficiency.

Discrete Event Simulation

Create a digital twin of your operation to test scenarios and quantify changes.

Industry's Largest Public Equipment Library

Access to the industry's largest publicly available equipment library, including all major OEMs.

3D User Interface

HAULSIM is built on gaming technology with an intuitive, 3D interface that improves communication and collaboration.

Smarter Haulage Decisions

HAULSIM makes smarter haulage decisions, schedule validation, scenario analysis and fleet comparison before capital outlay.

Electric Vehicle, Hydrogen and Hybrid Simulation

Easily model and quantify the differences between diesel, hydrogen, hybrid diesel and electrification of the mining fleet.

Intuitive Use

Easy to master with users up and running in just a few hours.

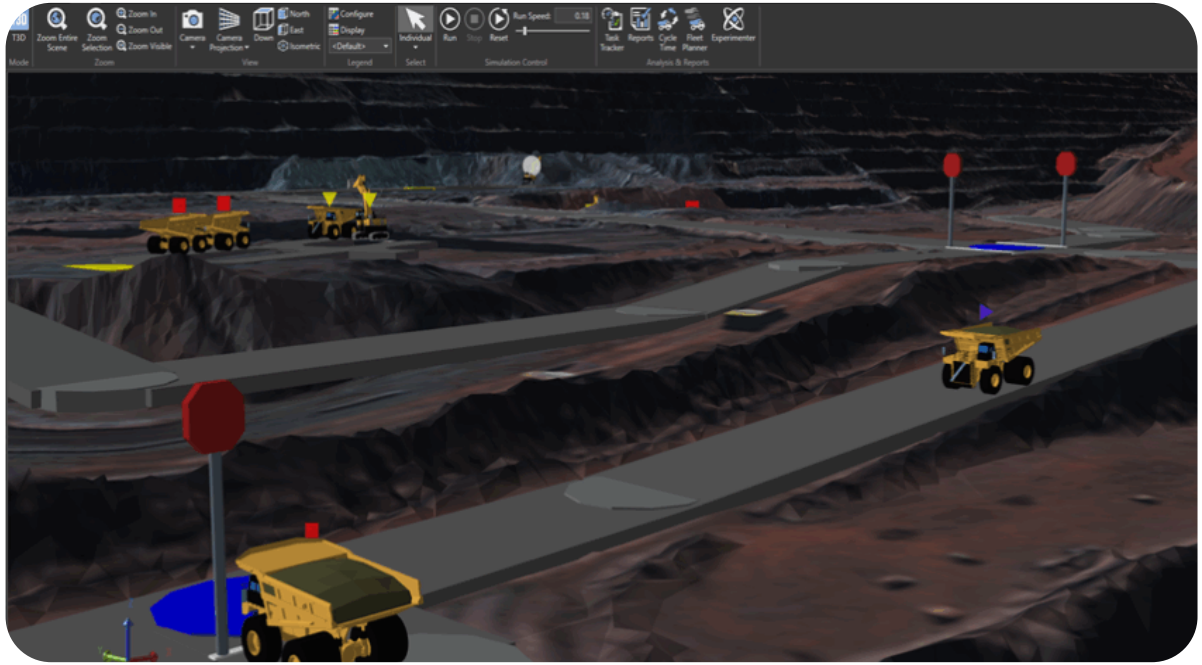
Trusted Travel Time Calculations

HAULSIM's travel time calculation engine is built on over 40 years of simulation experience.

Controlling Uncertainty

Mine haulage optimisation is paramount, as it represents the highest cost component of any mining operation. HAULSIM drives down operating costs by predicting production, allowing users to take control of uncertainty in their mining operations. HAULSIM is used for:

- **Schedule Validation –** Productivity assumptions, congestion, utilisation and availability, machine hours.
- **Decision Support –** Stockpile management, road rules, multiple sources and destinations, site management, placement of passing bays.
- **Equipment Selection –** Individual equipment modelling, fleet and model matching.



Complete Confidence in Decisions

HAULSIM lets you validate schedules, investigate capital decisions and compare equipment. With a holistic focus on the haulage network, HAULSIM features a 3D user interface to quickly and easily identify bottlenecks, congestion and other areas of improvement. Eliminate the cost and risk of real-world testing using HAULSIM to visualise the effects of 'what-if' scenarios, such as:

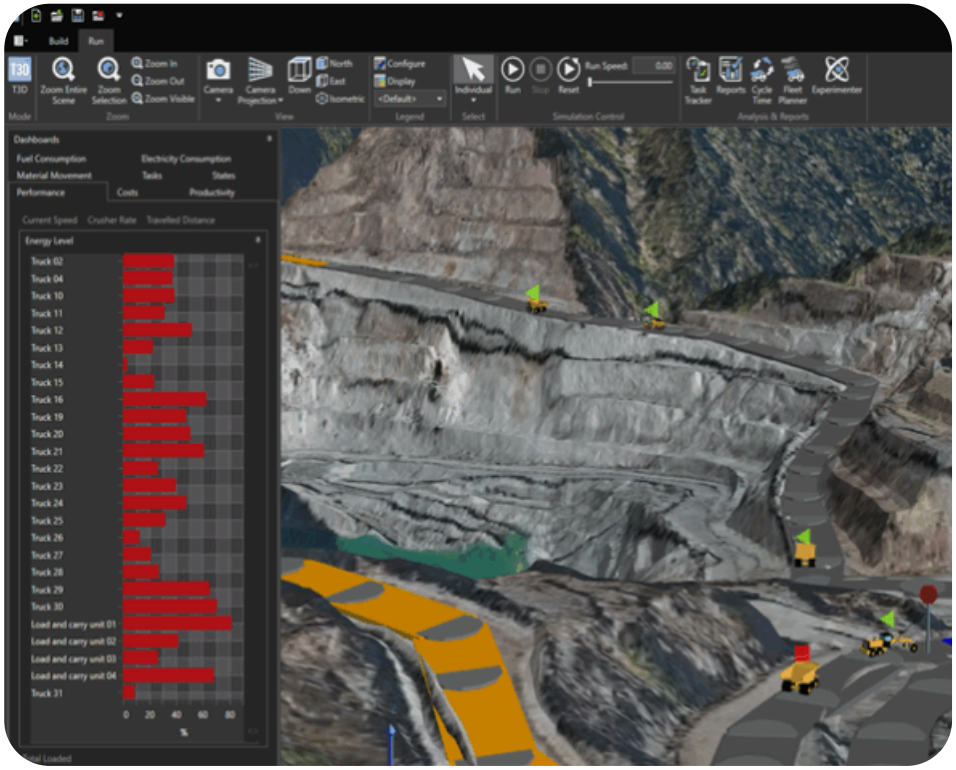
- Adding, removing or modifying equipment.
- Variations to equipment task assignment.
- Battery electric, hydrogen and hybrid vehicle modelling.
- Congestion and bottleneck improvement strategies.
- Changes to maintenance practices.
- Haulage route and speed limit changes.
- Changes in truck or loader allocation.
- Adding or changing traffic control.
- Changes to the configuration of ore passes, crushers and stockpiles.

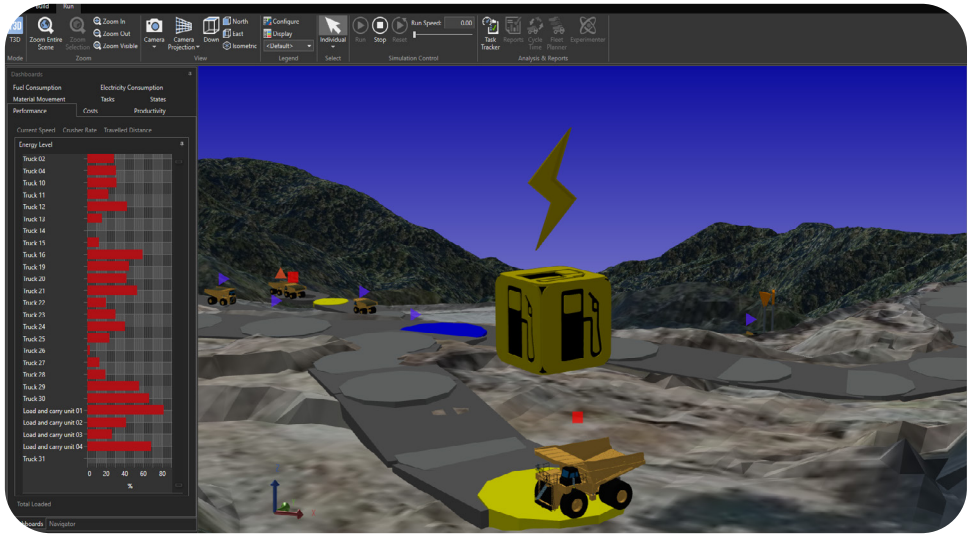
Discrete Event Simulation

Discrete Event Simulation (DES) has been used in many industries for several years to better understand processes in order to improve efficiency. Industries such as healthcare, logistics, manufacturing and even Formula 1 have benefited from having the ability to model their systems and achieve confidence in the outcomes.

HAULSIM has harnessed the DES philosophy in mining-specific software, meaning users can quantify the impact of changes, such as locking trucks or refuelling strategy on productivity and utilisation. Through the incorporation of DES into a mining-specific user interface, HAULSIM can be used in any mining operation to support decisions and validate assumptions prior to any monetary outlay.

HAULSIM has been proven by hundreds of operations in both underground and open-pit/cut mining environments all over the world.





Software Support

RPMGlobal's international network gives our customers multiple support options across multiple time zones. Our skilled professionals provide both technical software support and extended implementation support, covering any model or customisation.

Access RPMGlobal's comprehensive support service by telephone or email, or get online and talk with our experts on the RPM forums. No matter where you are globally, no matter how remote, we can help.

RPMGLOBAL

For almost 50 years RPMGlobal has been Advancing Mining with advice and technology solutions that provide a step-change to the accepted process.

Guided by our underlying principles of mining expertise, innovation and sustainability, we strive to create safer, more efficient and more sustainable operations for our customers. Our focus on providing advanced mining technology, together with deep domain expertise across the mining lifecycle enables us to guide customers through the current and emerging challenges being faced by the industry worldwide.

For more information visit

rpmglobal.com/product/haulsim/