

RPMGLOBAL

XECUTE

Execution Planning Solution

**Maximise productivity,
compliance and value from
every shift**



Better planning decisions, higher productivity, and more predictable outcomes.

XECUTE is RPMGlobal's purpose built, execution planning solution.

With XECUTE, execution planning is precise and predictable. Live data and intuitive visualisations keep plans accurate, easy to communicate, and aligned with operations – maximising productivity, compliance, and value from every shift.

XECUTE's **Demand Chain Optimiser (DCO)** optimises stockpiling, processing and blending from pit to port to satisfy customer orders. DCO overcomes many of the value chain challenges experienced by bulk commodity miners, reducing costs arising from demurrage and grade tolerance penalties. It also gives the ability to blend and use lower-grade product, that would otherwise sit on stockpiles throughout the optimisation.



Continuous live planning

Update schedules during the shift as conditions change to enable accurate replanning.



Real-time integration

Integration with Fleet Management, Maintenance, and HP GPS, spatial, and inventory.



One plan for all

Connect all departments for cross-team, real-time collaboration.



Haulage Optimisation

Cloud and AI-based haulage engine to simulate and optimise fleet requirements across the shift.



Clear plan communication

Visual tools clearly communicate priorities, constraints and daily targets.



Connected supply chain

Instantly understand downstream impacts to support better execution decisions.



User-centric design

Game-inspired, 3D, multi-user interface that is easy to use.

Efficiency at Every Step

Stay on Track with Execution Planning

Execution planning focuses on rapid decision-making, which requires visibility of the current state of operations. XECUTE uses Enterprise data feeds from Fleet Management Systems and High Precision GPS to give real-time updates of the operation. This enables planners to assess the current shift progress, update schedules, that align with longer-term plan horizons.

- **Automated updates** from High Precision GPS and Fleet Management Systems to give visibility of equipment location and performance.
- **Real-time integration** aligns production and maintenance schedules to reduce downtime and avoid bottlenecks and delays.
- **Dynamic schedule adjustments** enable rapid response to deviations and sustained compliance across shifts.

A Real-Time, Multi-user Solution

XECUTE is a true multi-user solution allowing multiple departments and people to use the same model and plan simultaneously. Planners in remote operations can work on the same model at the same time as the production planner on-site and immediately see the changes as they are made.

- **A multi-user environment** with access by multiple planners and departments in a single environment.
- **Updates are visible** in real-time across remote operation centres and on-site teams.
- **Enhances collaboration** between departments for faster decision-making.



Stay Aligned with a Continuous Live Plan

A mining operation is continuously changing, and your plan should reflect that. XECUTE gives planners the most accurate and timely information through a live representation of the pit so decisions can be made with the full picture.

- **Integrates live operational** data in real-time for informed planning decisions.
- **Reduces lag** between operational events and planning adjustments.
- **Empowers planners** with the most accurate information to respond quickly and confidently.

Be Informed with Adaptive Gantt Charts

Navigating and understanding the schedule has never been easier. XECUTE's interface combines a graphical scene with a Gantt-style schedule view. Users manipulate and alter the plan and immediately see the effects on the schedule in the Gantt chart.

- **Combines a 3D graphic** scene with a live Gantt chart for complete visibility.
- **Instantly reflects** schedule changes as users adjust plans.
- **Simplifies navigation** and understanding of complex operational timelines.

Visual Context for Confident Decisions

See the site and operational conditions in one intuitive 3D view. Live data and modern visualisation keep plans accurate, easy to communicate, and aligned with operations – instantly understand downstream impacts to support better execution decisions.



Live and Connected Haulage

Achievable Production, Grounded in Haulage Capacity

XECUTE supports Truck Limited Scheduling, enabling production rates to be planned on available trucking capacity rather than theoretical limits.

- **Models** achievable loader productivity using real haulage constraints.
- **Improves** confidence that planned production can be executed.
- **Strengthens** compliance between plan and operational reality.

Rapid Configuration, Smarter Decisions

XECUTE's Material Flow and Product Optimiser provides script-free, intuitive interface for defining and managing optimisation logic across the operation.

- **Sophisticated** rules, making it easy to accurately model objectives and constraints.
- **Clear visualisation** of material movement and processing optimisation rules.
- **Faster configuration** of objectives, constraints, and priorities.

FleetPlanner - A Single, Connected View of Haulage

XECUTE FleetPlanner combines a 3D, visual user interface with RPM's industry-leading travel time calculation engine for truck allocations before and during the shift.

Planners and dispatchers use FleetPlanner to keep a live and accurate haul network in the cloud. XECUTE and Fleet Planner are aligned and synchronise changes between the haulage network and the schedule. The solution gives users the power to optimise truck allocation based on truck availability, capability and restrictions, maximising utilisation and productivity while reducing delays.

- **Synchronised** haul network model.
- **Alignment** between XECUTE and XECUTE FleetPlanner
- **Improved** visibility of haulage constraints across the planning horizon.
- **Flexibility and adaptability** through scenario analysis when conditions change.

Discover

Product Optimiser

Product Optimiser is a core component of RPMGlobal's planning solutions, enabling the schedule to take the right product to the right place.

Product Optimiser determines the optimal way to process, blend and stockpile products to maximise value from what is scheduled to be mined and can be used for individual mining operations or multiple mines with shared processing facilities. Its sophisticated functionality continues to deliver a key planning advantage to users.

Right product, right place

Product Optimiser is a core optimisation capability embedded in all of RPMGlobal's scheduling solutions and is typically used for maximising product value, blending and automating stockpile utilisation.

Product Optimiser enables the schedule to take the right product to the right place. Unlike other packages, Product Optimiser is integrated with the schedule to determine the optimal way to process, blend and stockpile products to maximise value from what is scheduled to be mined. It can be used for individual mining operations or multiple mines with shared processing facilities.



Maximise product value

Model the operation of the mines processing and stockpiling facilities.



Rapidly evaluate multiple scenarios

Product Optimiser is built for mine planners, with an intuitive interface that allows different options to be evaluated quickly.



Exploit market opportunities

Find potential markets for material that would otherwise be directed to a waste dump.



Go beyond the crusher

Extends the scope of schedules beyond the crusher, enabling consideration of the processing of materials into final products.



Automate blending

Product Optimiser simultaneously optimises multiple quality targets for multiple products to determine the best blend strategy for any commodity or processing method.



Automate stockpile utilisation

Automatically finds the best combination for given material available.

Demand Chain Optimiser

Optimise Production From Pit to Port

Bulk commodity mining is complex. Multiple pits, stockpiles, processes, and logistics must align to deliver the right product to the right destination – on time and within increasingly strict specifications.

Optimisation in mine planning traditionally focuses only on in-pit activities. Once material leaves the mine (for transport to downstream processing or port), most planning tools stop – leaving planners to rely on spreadsheets and manual adjustments for everything beyond that point.

Integrated into RPMGlobal's short-term execution planning solution XECUTE, **Demand Chain Optimiser (DCO)** extends optimisation beyond the mine gate, covering stockyards, transport, and port, to deliver a single and demand-driven plan for pit to port, without the need for scripts or bespoke consulting.



Staged Stockpiles

Advanced stockpile modelling with full build/reclaim cycles enabling dynamic blending and precise control over product builds to meet shipment specifications.

Improved Management

ROM Stack and Reclaim operations scheduled to optimise delivery of final product. Practical task assignments can be passed to operations for in-shift execution.

Highly Integrated

Stockpile inventory, product specifications, ROM targets, and processing throughput rates are all updated automatically, saving time every day and increasing confidence in the accuracy of key inputs.

Production Planning

XECUTE and DCO are designed specifically to satisfy the needs of the ultra-short-term planning horizon for mine and logistics planning. Plan for completion of product builds with minute-level accuracy.

Demand Focus Planning

DCO aligns pit, stockpile, processing, transport, and port activities to satisfy customer demand. It considers what must be done to complete shipments by the due date and within specification, with adjustments rippling through the entire schedule.

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/xecute/