

AutoNav

Scalable and agnostic solutions for equipment automation



Get all the benefits from automation

Enhance your operation's safety and productivity with our proven brand-agnostic automation solutions, meaning they can be seamlessly integrated with any machine, regardless of age, make, or model. This enables you to unlock the full potential of your existing and future fleet, optimizing and safeguarding your critical workflows, no matter the equipment type.

Move your mine into the future

Move your mine into the future with our AutoNav solutions. Take control of your machines to reach greater heights in safety, productivity and profitability. Our automation and control portfolio are adaptable to meet a variety of needs, from the automation of a single unit to a completely autonomous fleet.

Technology capabilities

Our automation path allows the combination of all the latest technology available to deliver a fully autonomous solution for your mine.



Digitization

Digitizing the mining environment to support machine control and data capture.



Adaptability

Ability to customize our solution to suit clients' specific mining operations.



Interoperability

Technology that can be applied across any make and model of equipment.



Information

Leveraging our interoperable platform to harvest data across the various mobile equipment fleet.



Scalability

Offer flexible and adaptive pathways to higher levels of automation and control.

AutoNav is a technology coming from our acquired company, RCT.



+ Main benefits

Increase your yearly profit by increasing run time on machines, producing more buckets per day, reducing machine damage, eliminating unplanned downtime, experiencing less wear and tear, and increasing fuel efficiency.

Expand productivity and minimize downtime by operating multiple machines, enabling faster tramming, facilitating hot-seat transitions, reducing disparity between operators, improving overall efficiency, and achieving faster cycle times.

Enhance operational safety and reduce equipment damage with our easy-to-use system. It improves operator health, prevents unforeseen accidents, enhances working conditions, reduces fatigue, and incorporates anti-collision intelligence.

From the simplest to the most sophisticated, we offer multiple levels of automation, depending on readiness of the operation.



Line-of-sight control

Keep operators at a safe distance, reduces fatigue, and minimizes repetitive stress injuries – boosting productivity and operator well-being.

The perfect first step toward automation, giving operators control of the machine from up to 200 meters away using a handheld device.

Option to expand system capability with video assist, providing comprehensive remote monitoring and control for improved efficiency.



Tele-remote

Relocate operators to a secure control room, enabling them to comfortably control the machines in real time with strategically placed cameras and sensors.

+ AutoNav centre

+ G-Dash

Real-time data through a graphical interface, conveniently displayed on a dedicated screen for effortless operator clarity and efficiency.

+ Machine containment system

Ensures that remote-operated machines stay within designated areas and keeps personnel out of restricted zones.

+ InSite

The touch display gives operators real-time machine data and information.



Semi-automation

Everything included in AutoNav Tele, and:

+ Autonomous tramming

Enables machines to travel between locations without manual input, reducing operator workload.



Our agnostic automation range is scalable and can be applied to a single machine or an entire mixed fleet.



Multi-machine automation

Everything included in AutoNav Lite, and:

+ Multi-machine select

Allows an operator to switch from controlling one machine to another from the one operator station.

+ Multi-machine control

Allows one operator to control multiple machines on site, delivering better visibility of the work area.

+ Autonomous tramming plus

The operator simply releases the joystick, and the machine automatically navigates to the destination, controlling steering, braking, and speed independently.

+ AutoDump

Trains the machine to dump into a stockpile, fixed point, ore pass, or even a truck.

+ G-Data

Machine diagnostics and production-related data are gathered and displayed items to make informed decisions.



Fleet automation

The most comprehensive automation system for mining fleets, designed to optimize operations in shared automated production areas, enabling operators to remotely oversee the entire process.

Everything included in AutoNav, and:

+ Multi fleet select

One operator can simultaneously control an entire fleet of different machines on-site.

+ Integration

Bring together all existing and new systems for a streamlined solution.

+ AutoDig

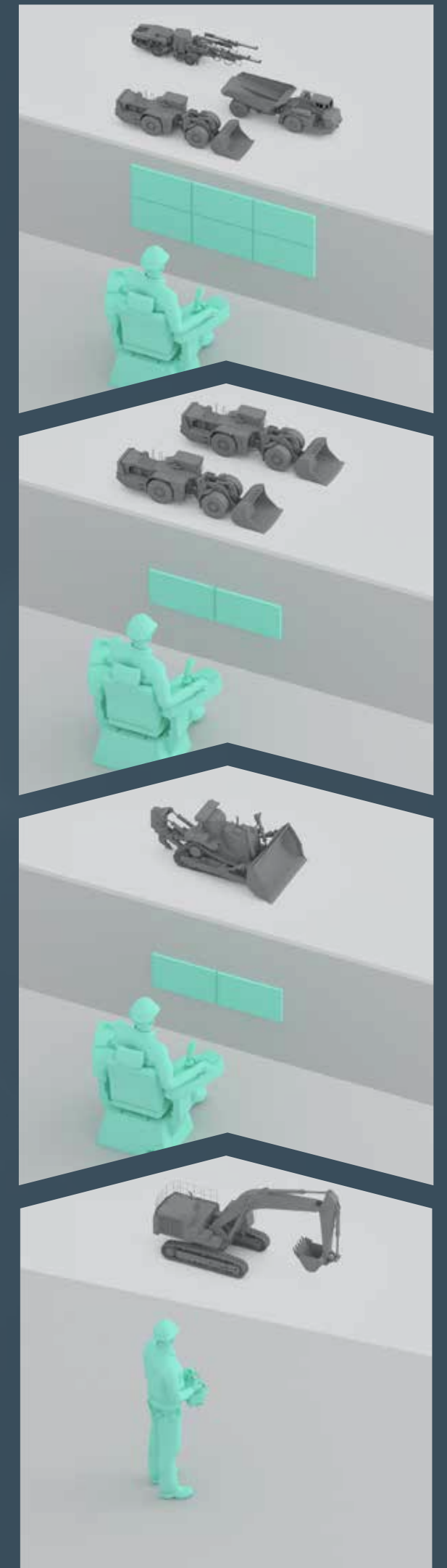
Will ensure the operator is in the optimal position for the ideal dig, ensuring their bucket is filled on the first time, every time.

+ Traffic management

Ensures collisions don't occur by issuing commands based on machines that could intersect whilst tramming. These commands then determine the action the machine will take. Once this task is given, the system decides which machine has right of way when other machines are approaching a particular segment.

+ Mega wall streaming

Bring your entire operation to life, where staff can observe and monitor data.



United in performance. Inspired by innovation.

Performance unites us, innovation inspires us, and commitment drives us to keep moving forward. Count on Epiroc to deliver the solutions you need to succeed today and the technology to lead tomorrow.
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