

# RCS 5

Rig Control System



# The evolution of a revolution

RCS 5 provides the next step for the mining industry from the automation program that brought autonomous drilling into a sustainable reality.

Epiroc's new and enhanced Rig Control System allows our partners around the world to further advance their operations, saving valuable time and dollars while increasing predictability and safety with either on board or autonomous operations.

For details on how RCS 5 can enhance your profitability contact your Epiroc representative or visit [epiroc.com](http://epiroc.com).

## + Capabilities

- Auto tower angle
- Machine-to-machine communication
- Integrated camera view

## + Simplicity

- Highly intuitive interface
- Digital driller's log
- Easy conversion process

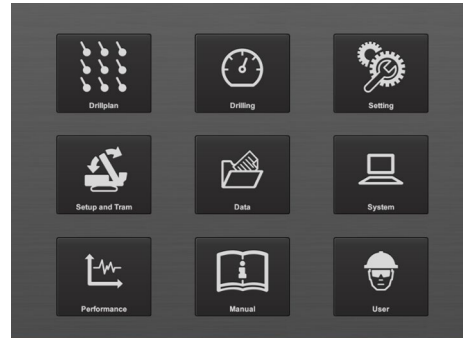
## + Expandability

- More processing power to add future functionalities



# Join the revolution

RCS 5 is packed with features to increase safety, productivity, and profitability.



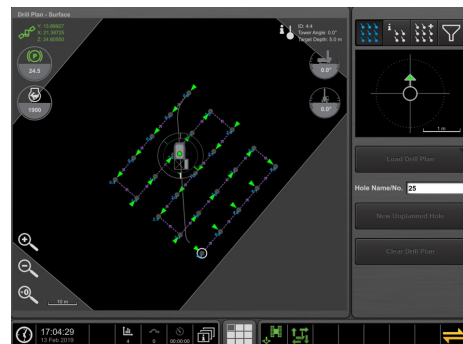
## + Control hub

Whether operating from a remote location or on-board the drill, the new and improved RCS 5 intuitive main menu creates a smooth-running and user-friendly experience that ultimately increases productivity. This new design enables the ability to focus on the task at hand and switch seamlessly between screens in a well-organized and dynamic environment.



## + Drilling data screen

Drillers spoke and we listened! The new Drilling Data Screen in RCS 5 features real time depth monitoring and creates a penetration rate histogram so you can easily monitor what's happening in the hole. Key drilling gauges are clearly displayed for simple decision making.



## + Drilling plan manager

Your operation is moving fast, we understand. With RCS 5 you can now create and edit drill plans on-board the rig or from a remote location quickly and easily. If you create drill plans in a separate application, RCS 5 makes it even easier to upload and clear drill plans.

Drill Plan Generator (DPG) is the new function that allows the creation of drill plans on board the machine without having to import drill plans by starting with a known location and designing the plan based on specific burden and spacing.



## + Digital driller's log

Driller logs that require paper and pen become a thing of the past with the Digital Driller's Log feature in RCS 5. This embedded intelligence now allows individual operators to log into the system before running the drill. Once logged in, all key parameters are tracked during the shift helping to make end of shift reports by operator easier than ever. Login can still be done in the traditional way or you can create unique usernames and passwords for each operator.



## + Set up and tram screens

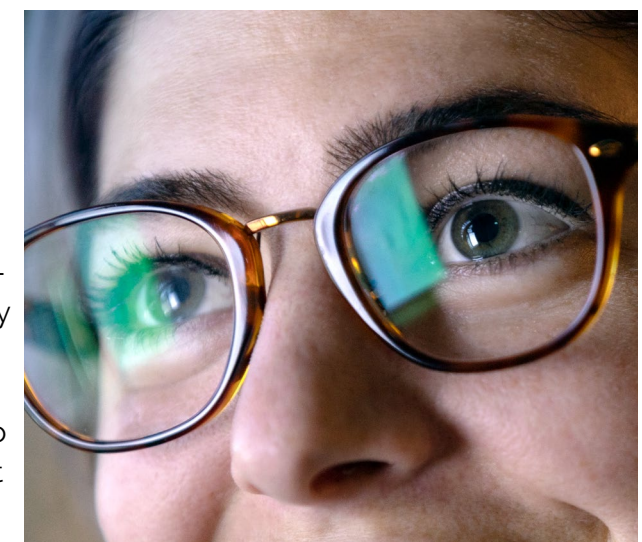
We have reduced the number of screens by roughly half. In this view, by combining setup and tram into one screen, RCS 5 simplifies these processes helping you to get over the hole and drilling as quickly as possible. The system automatically detects between setup and propel and displays the appropriate functions on the screen for you.

## An intelligent design

RCS 5 masterfully combines art and science to deliver a seamless user experience for all operators.

Its intuitive interface uses well-recognized patterns, concepts, and symbols that make almost everything self-explanatory and allow the user to find functions and apply them much faster.

This level of simplicity, not only boosts productivity, it also reduces unnecessary learning processes, making current knowledge meet target knowledge easier and quicker.



# Flexibility for the future

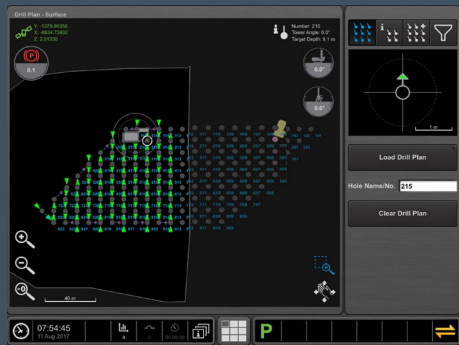


Epiroc's new Rig Control System (RCS 5) makes full automation easier and more productive than ever before!

RCS 5 provides a number of safety and interlock features, as well as a foundation to add new functionality/options later without a major rebuild of the machine.

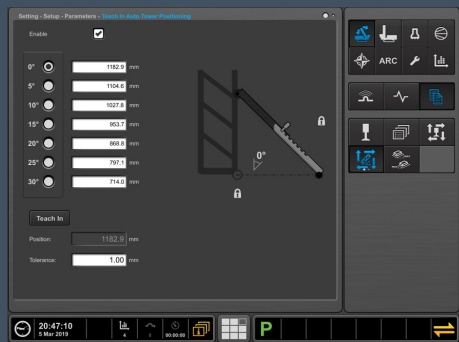
With RCS 5, you can run your drills with an operator on board using options such as Autodrill and Autolevel — or you can run with the operator off the drill with the optional BenchREMOTE package, allowing one operator to run one or multiple units.

## Add-on features:



### + Machine-to-machine communication

Machines operating on the same pattern can now share real time updates of the progress each drill is making against the drill plan. This makes it easy to monitor and operate multiple rigs simultaneously. Asset planning and predictability is also improved.



### + Auto tower angle (ATA)

Further advancing the autonomous capabilities of the Pit Viper series is Auto Tower Angle. This new feature allows for remote angle adjustment and pinning of the drill tower. When coupled with the new Auto Drill 2 option and Auto Rod Change, Auto Tower Angle gives you even more automation power than before.



### + Integrated camera view

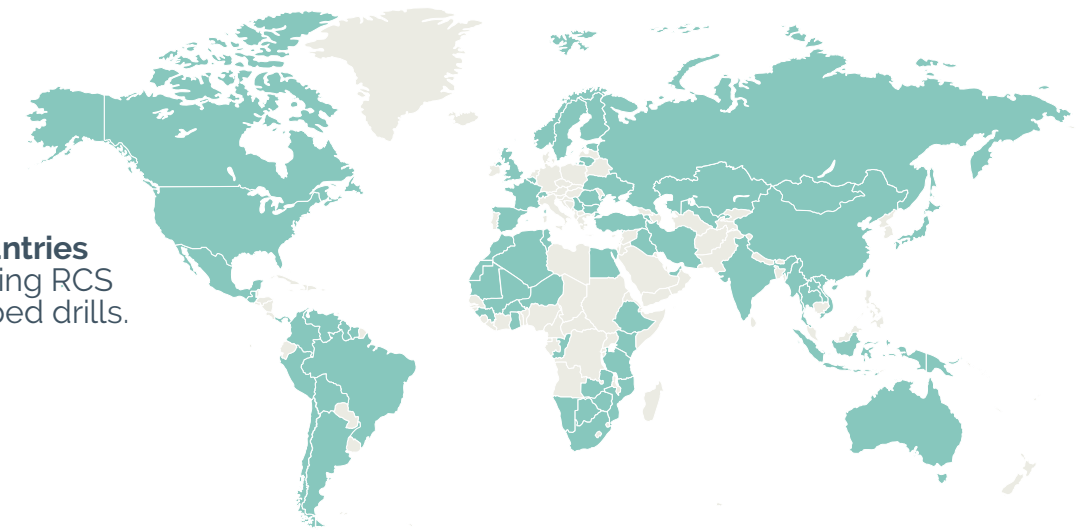
Situational awareness is key. Multiple displays can cause confusion so we have integrated the camera feed into the RCS 5 screen. A simple tap on the camera box expands it to fill most of the screen so you can quickly and easily change between views.

# RCS

## Rig Control System

10 million meters drilled autonomously

74 countries operating RCS equipped drills.

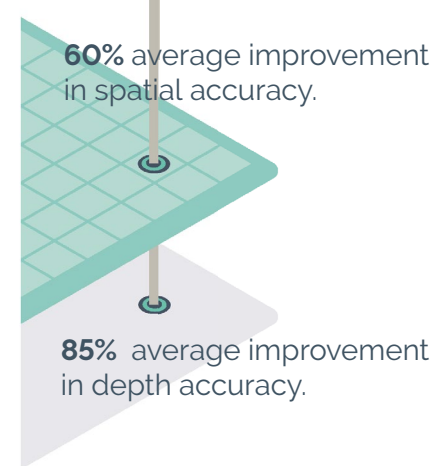


385,000 hours drilled tele-remotely. That's 44 years!

Total increase in meters drilled from Auto Drill: **3,572,855**  
Average penetration rate increase from Auto Drill: **14%**

915,000 meters saved of wasted drilling. That's 23,000 hours!

Total increase in operational hours from tele-remote: **130,633** hours  
That's **14.9** years!



## Service and support

Epiroc offers several types of service agreements to meet your operational requirements and maximize your productivity:

**Variable-price repairs**  
Service when you need it.

**Fixed-price repairs**  
Service with controlled costs.

**Equipment audit**  
Scheduled equipment quality control.

**Preventive maintenance programs**  
Peace of mind so you can focus on your core business.

# 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.

**[epiroc.com](https://www.epiroc.com)**