

RS20s for roof support



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In this era of technology and automation, there are ways to be more productive and advance the journey to zero harm with evolution rather than full-blown revolution. The Komatsu RS20s for roof support system is one of those evolutions.

Do not let the familiar look fool you. This next-generation Faceboss system combines high speed communications with advanced features and automation capabilities. You can gain efficiencies through its natural integration with your longwall and mine systems, as well as speed to make key decisions faster.

The system itself consists of a solenoid-operated Compak valve assembly, Mimic man-machine interface, microprocessor and Solenoid Transducer Unit to control the Compak. It can be used on PRS of any manufacturer.

Fault tolerance

In the event of a fault, we designed the RS20s system to minimize its disruption to your operation.

It is not necessary to unplug cables for any type of fault-finding on the face — in most fault conditions, the system will pinpoint and report the fault, then continue operating, maximizing system uptime.

To help minimize faults, the RS20s system helps you pinpoint and understand faults. A fault is recorded in a Fault Log, with an explanation of the fault, how it might have occurred and what action the operator should take. To more quickly process this data, a special sort function is available.

And when power is reset, it is supplied sequentially to each unit, so any shorts are detected before affecting the local power supply.

Proven control

The RS20s is a major evolution of the RS20s system the industry has trusted for decades. Meaning an operator proficient with RS20 can seamlessly transfer to the RS20s with minimal training.

RS20s also contains the features you need in an advanced shield control system: Bank Push, Double Snake, Autodrag, Multiple Advance, Slewing the face (Wedge Cut), Configurable Advance Sequences, Advance Retries and Incremental Advance and Push.



Smaller components mean more flexibility and reliability

By separating the user interface (Mimic) from the processor, each component is now more compact.

This enables them to be placed in well-protected and ergonomic positions on the shield, such as on the supports, where they are protected during face moves.

Making connections is a common four-wire cable that's proven robust in the toughest environments. They're completely interchangeable between system units and their small diameter and flexibility stay out of the way of personnel.

Automation-ready

To help you on your automation journey, the RS20s system comes with an automation library of more than 100 face cutting sequences. Using shearer initiation with gate-end automation, no operators need to be specifically deployed for shield operation.

Operator friendly

The Mimic has been designed with the operator in mind. The front panel uses a diagram to illustrate all the support functions, making it easy to understand. The goal is to give operators —new and seasoned — confidence in its use.

Buttons are designed to be easy to operate even when wearing gloves. The high-bright LCD display can display graphics and multiple languages for added clarity.

By building an infrared (IR) receiver into the unit, there's no need to purchase additional peripheral receivers.

All these features are contained in a compact package so the Mimic can be positioned for maximum operator convenience.



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