

Joy Faceboss RS20n



Drive productivity with advanced longwall technology

RS20n helps you connect technologies to support automation, promote safety

Faster, more informed decisions about your mining operations can drive productivity. The Joy Faceboss RS20n longwall control system makes that possible by helping you unlock the benefits of automation and intelligent controls. It enables the connection of intelligent devices, sensors and technologies to the mine's network to support high levels of longwall automation.

Designed for use on powered roof supports and armored face conveyors (AFCs), the Joy Faceboss RS20n is the industry's first 1Gb/s two-wire Ethernet system, engineered for standout productivity and reliability. It enables high-speed video and data transfer, a full suite of advanced automation controls and exceptional remote monitoring capabilities — all without the need for additional cabling or infrastructure. Real-time remote capabilities also help keep workers away from the face for enhanced safety.

Key benefits

- High-speed ethernet communications
- Real-time feedback for faster decision making
- Scalable architecture
- Operable from anywhere within mine's network
- Safe for use in hazardous areas
- Extensive automation capabilities
- Suitable for all mine conditions

Integrate with other components

Operators can achieve a holistic level of automation thanks to a full integration with other Joy and third-party longwall components and systems.

Get data fast

You can get real-time feedback and fast refresh rates with the system's high-speed 1 Gb/s two-wire Ethernet communication, which enables remote system management and is key to driving toward an autonomous operation.

Enable network connectivity

Simplify the connection of additional devices and technologies to the mine network — such as cameras, Ethernet sensors and wireless access points (WAPs).

Operate remotely

Extensive flexibility enables users to operate the system from anywhere within the mine's network. The remote management center is supported when the Faceboss RS20n is used in conjunction with the Surface Control feature.

Reduce cabling hassles

Improve cable management and noise immunity with a standard, robust four-wire cabling scheme that also works to reduce physical damage. Cabling is completely interchangeable among all components.

Adapt for any mine conditions

Advanced, configurable automation features are designed to suit all mine conditions and the resultant operating process.

Protect against wear and tear

Protect against corrosion, moisture and many other arduous conditions found in longwall mining with a stainless-steel housing.

Benefit from versatility

A complete automation portfolio includes an extensive range of face cutting sequences and operating features. The Faceboss RS20n builds on the functionality found in the Faceboss RS20s system for a more seamless transfer between platforms.

Reduce safety risks

Safety Integrity Level (SIL) rated software, including SIL 2 E-Stop system and SIL 1 Proximity Detection system, helps reduce worker safety risk. The intrinsically safe electronic components are designed to limit the energy, electrical and thermal available for ignition, making them safe for use in hazardous areas.

Perform in tough environments

All Faceboss RS20s and RS20n components have undergone rigorous environmental tests, including water jet, immersion, humidity, drop and vibration.



How can you start realizing the benefits of the Joy Faceboss RS20n longwall control system? Contact your Komatsu mining representative today.

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