

## Joy Compak Next Gen



### Gain confidence in your longwall systems

When mining in challenging, unpredictable conditions, your operators need to have confidence in their longwall systems, and building that confidence starts with the hydraulic functions in your roof supports. Engineered to be durable and reliable in rugged environments, this hydraulic control system features a corrosion-resistant main body and custom-designed spool valve technology to handle higher flow rates.

#### Quick highlights

- High performance valve technology helps improve cycle times by up to 12%\*
- Overall size is reduced by up to 27% and weight by up to 30% for improved ergonomics\*\*
- Custom-designed spool technology for reliability and longevity
- Expandable through modular design incorporating standardized components

**Get reliability and multifunctionality:** Suit the needs of your mining operation by easily expanding this system (up to and over 16 functions) to increase its functional requirements. Designed to enhance the speed of operation in your longwall system, the Joy Compak Next Gen hydraulic control valve system will help forge the trust your operators need to deliver the production your operation deserves.

**Make maintenance simple:** Streamline maintenance with a hydraulic control system that features a modular design to incorporate a series of standard components, helping reduce lead times for replacement parts. Easy to change cartridge-style construction makes replacement straightforward and manageable — manifolds, valve assemblies, cartridge valves and fittings are all standard as part of this system's modular design.

# Strong support for your roof supports

## Support your roof supports

Maintain roof support control with a high-performance valve system that helps lower cycle times by up to 12%\* for enhanced productivity.

## Easy to position and access

Designed with the operator in mind, this hydraulic system's overall size is reduced by up to 27%\*\* and weight by up to 30%\*\* than previous designs, making it easier to position and provides better accessibility and ease of maintenance. Hosing position is also conveniently located for better access.

## Improved reliability

While reducing the number of components to lessen wear and tear, the spool valve in this hydraulic system is engineered to handle higher flow rates, which helps reduce the risk of part failure and promotes extended life.

## Seal the deal

Seals play a crucial role in the functionality of the hydraulic spools that operate your roof supports' functions. Help prevent leakage in your hydraulic spools with Komatsu's innovative and proven seal technology.

## Go with the flow

A simplified, standardized hydraulic circuit design helps provide a reduction in the number of spool valves without impacting performance. This design also minimizes fitting and connecting hoses, helping reduce potential leak points.

## Durable and corrosion-resistant

Corrosion-resistant materials and treatments are used on valve block assemblies and components to help combat corrosive environments and water-based fluid systems.

## Control at your fingertips

Ergonomically positioned for ease of access, your operators can now control the main override function easily and effectively through an integrated pushbutton within the solenoid.

## Trusted expert design

Our design experts used in-house sophisticated modeling and computational fluid dynamics (CFD) to help calculate pressure drops, optimize fluid velocity, determine flow rates and develop hose sizes for the best possible solution.

## Unlock the power

Complete your automated journey to zero harm and increased productivity with the global dual solenoid valves. Serial connectivity enables a distributed system for fast response and the valves can be used with any powered roof support (PRS) system.

## Upgrade and retrofit

The Joy Compak Next Gen can be conveniently upgraded and is retrofittable to any PRS system (regardless of manufacturer), allowing you the flexibility to suit the individual needs of your operation.

Discover how the Joy Compak Next Gen can help strengthen your longwall mining set-up. Talk to an expert today.

All comparisons and claims of improved performance made herein are made with respect to the prior Komatsu model unless otherwise specifically stated.

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