

News Release

FOR IMMEDIATE RELEASE

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Joy Global Introduces Track Shield™ Collision Detection & Mitigation System for P&H® Shovels

Milwaukee, Wisconsin – **Joy Global (NYSE: JOY)** Joy Global has introduced the Track Shield Collision Detection & Mitigation System, the first dipper-track collision avoidance technology solution available for electric mining shovels. Designed with extensive shovel operator input, the system uses precise mathematical modeling and prediction based on readings from sensory devices and the P&H brand Centurion® electrical control system to monitor and minimize structural impact of the dipper and crawler shoes.

Repeated dipper-crawler strikes are a major contributor to reduced crawler shoe life and structural cracking. This can result in unplanned and unbudgeted shoe, pin and hardware replacements. Long term, it can also mean more costly repairs to crawler frames and carbody structures. “Dippers are increasingly becoming larger and deeper. Mining operations in applications such as oil sands require wider tracks to accommodate floatation,” stated Eric Hsieh, Product Manager - Technology at Joy Global Surface Mining. “Under these circumstances it is difficult even for the most experienced operators to avoid repeated dipper-track strikes.”

The Track Shield system can give shovel operators the confidence to maintain full speed in order to achieve optimum cycle times. It can also assist new operators by guiding them in where they need to be in respect to distance to the digging face for proper fill factors. Reinforcing best digging practices for both new and experienced shovel operators, combined with improved machine availability, can result in a significant increase in productivity.

By focusing on customers’ needs and harnessing the power of technology, Joy Global continues to help customers reach enhanced levels of financial performance in today’s challenging mining environment and for years to come. The Track Shield System is available immediately for all P&H brand Centurion enabled 2800 Series and 4100 Series AC and DC electric mining shovels. Contact your local Joy Global service center or visit joyglobal.com for more information.

Joy Global Inc. is a worldwide leader in high-productivity mining solutions. Through its market-leading P&H and Joy brands, Joy Global manufactures, markets, and services original equipment and related aftermarket parts for the surface and underground mining industries. Joy Global's products and related services are used extensively for the mining of coal, copper, iron ore, oil sands, gold and other mineral resources.

Images



Caption:

The Track Shield system generates an alternate path to mitigate dipper to crawler shoe impact.