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Joy Global introduces DynaMiner prototype featuring DynaCut technology for continuous hard rock mining

LAS VEGAS, Nevada – Building on its transformational DynaCut rock breaking technology, Joy Global today revealed its prototype DynaMiner machine at MINExpo INTERNATIONAL@2016.

The prototype machine has two key parts, a DynaCut disk that oscillates, which is mounted to a smart boom. It allows Joy Global's mining customers to break rock rapidly with minimal energy.

"As we've refined the technology, energy in and cut rock out has improved dramatically – meaning a smaller, lower mass, lower cost mining machine," said Brad Neilson, president of hard rock mining for Joy Global. "Machine size and mobility is important for our customers, so we have focused on keeping it simple and compact."

Working with industry partners, Joy Global has spent years refining the technology to provide the mining industry a viable alternative to drill and blast. In that time, the company has increased cutting rates by a factor of 10. The resulting process requires much less energy than other hard rock mechanical cutting methods, and will be ideal for use in mining, construction and tunneling, Neilson said.

"This is a completely new field of rock breaking technology," Neilson added.

The DynaMiner can cut in any direction and can start by directly cutting into rock. The machine is not limited by the availability of a free edge, allowing for the development of flexible, accurate tunnel profiles of any shape. The prototype machine is now underground at the Newcrest Cadia East mine in Australia.

Used in conjunction with haulage devices and mobile roofbolters, the DynaMiner is part of a hard rock continuous mining system that delivers on Joy Global's brand promise to help its customers lower their cost per ton and achieve the highest productivity while driving for zero harm.

About Joy Global

Joy Global Inc. is a worldwide leader in high-productivity mining solutions. Through its market-leading surface and underground business segments, the company manufactures and markets equipment and services for the global mining industry from 135 locations in 20 countries. Its industry-leading brands include P&H, Joy and Montabert.

For more information about Joy Global at MINExpo, visit <http://joyglobalminexpo16.com/>.

For more on the company and its products, visit www.joyglobal.com.