



JOY MINING MACHINERY
A Joy Global Inc. Company

NEWS RELEASE

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Joy Mining Machinery Ships 500th AC VFD Shuttle Car

WARRENDALE, PENNSYLVANIA – March 2009 - Joy Mining Machinery, the inventor of the shuttle car, marks yet another milestone in underground mine haulage with the shipment in February of the 500th shuttle car equipped with the company's trademarked OPTIDRIVE AC variable frequency drive (VFD).

The 500th AC VFD shuttle car—a 10SC32AA model—was shipped to Massey Energy's, Martin County Coal Corporation, Voyager Mine in Inez, Kentucky.

Since the introduction of its OPTIDRIVE AC variable frequency drive in the spring of 2003, Joy reports shipments to ten countries: Australia, China, India, Italy, Mexico, Norway, Russia, South Africa, the United Kingdom and the United States.

In 2003, during which OPTIDRIVE was available for just more than half the year, 10% of the JOY shuttle cars sold had OPTIDRIVE AC-VFD. In 2004, that soared to 87% of the units sold and, last year, OPTIDRIVE cars made up almost 100% of all new cars sold globally.

According to the company, OPTIDRIVE was a major breakthrough in applying AC variable frequency drive to shuttle cars and has resulted in significant increases in power, speed and productivity.

With OPTIDRIVE, the shuttle car's top speed of about 4 mph (6.4 km/hr) was increased to 6 mph (9.6 km/hr), the international standard allowable top speed, Joy says, adding that this 50%

increase in speed has the potential to increase mine production by 10% which, in a typical situation, amounts to a difference of five additional loads per shuttle car, per shift.

Additionally, Joy says mine performance studies have shown JOY shuttle cars with OPTIDRIVE AC VFD have less motor maintenance when compared to haulage vehicles having AC/DC drives or DC drives, primarily because DC traction motors have brushes that must be replaced about every six months. Shuttle cars also have lower maintenance costs than AC drives with soft start.

With the vast majority of new shuttle cars, as well as some rebuilds, now having OPTIDRIVE AC VFD, Joy says the combination of more tons per shift, reduced maintenance costs, and minimal downtime means moving more material at less cost-per-ton and a positive impact on the bottom line for the mine operator.

Photo caption:

The shipment of the 500th JOY OPTIDRIVE shuttle car is delivered to Massey Energy. (left to right) Mark Stowers, Joy's Account Manager; Keith Hainer, Massey Energy's VP Underground Maintenance; Chris Adkins, COO Massey Energy; Chuck Harris, Joy's Service Engineer; Hiram Mahon, President Martin County Coal; and Lynn Johnson, Joy's Sales Engineer.

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