

Ameridrives

Bauer Gear Motor

Bibby Turboflex

Boston Gear

Delevan

Delroyd Worm Gear

Deltran

Formsprag Clutch

Guardian Couplings

Huco

Jacobs Vehicle Systems

Kilian

Kollmorgen

Lamiflex Couplings

Marland Clutch

Matrix

Nuttall Gear

Portescap

Stieber

Stromag

Svendborg Brakes

TB Wood's

Thomson

Twiflex

Warner Electric

Warner Linear

Wichita Clutch

# Global Repair and Support Service for the Mining Industry



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Equipment used in the mining industries is subject to extreme mechanical stresses: it has to operate in challenging climatic environments, yet has to work reliably with an operational lifespan frequently measured in decades. In many cases, the easy-to-reach resources have already been extracted, meaning today's equipment is increasingly sophisticated and having to work even harder to reach what is left.

Tilman Speer, International Sales Manager for Mining, Oil & Gas at Svendborg Brakes, examines these challenges facing the mining industry and highlights the importance of efficient, local support and repair services.

Maintenance of equipment is a vital consideration in all areas of the mining industry, where high mechanical stresses and the reliance on aging equipment can quickly impact asset availability. The cost of downtime is significant, and that of unplanned downtime even more so. Any necessary repairs frequently extend far beyond the single component that failed, with an unexpected failure often being the cause of damage to other components with the machinery further increasing costs. It is almost inevitable as part of any component failure that productivity will be compromised – indeed, production could slow significantly or stop altogether – until repairs can be made.

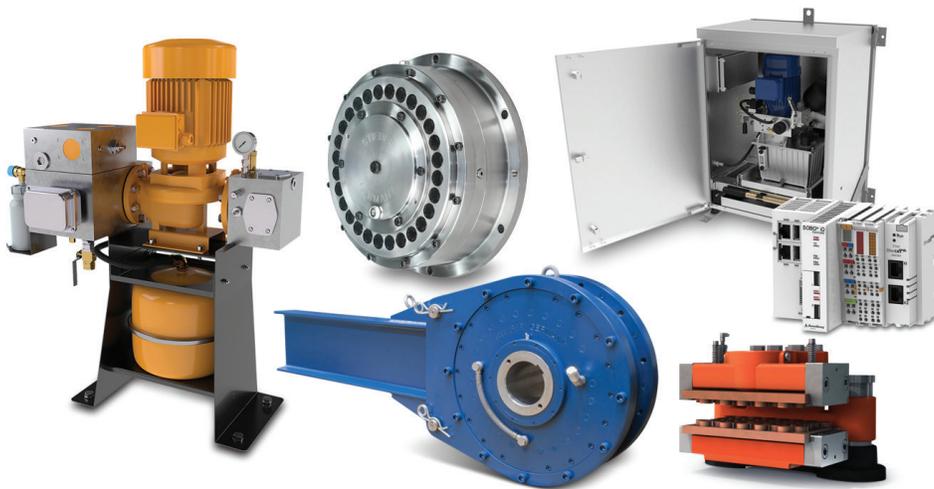
Such is the challenge of the operating environment where preventative maintenance is essential, with sensors now routinely embedded into equipment to flag impending mechanical problems. Even so, unexpected breakdowns are still considered an unfortunate fact of life for many mine operators, which is hardly surprising, considering the stresses and strains that mining equipment is subjected to.

All of this highlights the requirement for effective repair and support services, not simply as part of a reactive maintenance regime, but as part of a more proactive approach based around the sensor feedback from the devices embedded within critical equipment. Most importantly, these services need to be delivered quickly and efficiently by companies that have the required expertise, the necessary products and components, and the local presence to be on hand before significant downtime costs are accrued.

The brands within Altra Industrial Motion offer many critical drivetrain products utilized within the mining industries, including clutches and brakes, enclosed gearing and geared motors, belted drives, couplings, overload clutches and torque-limiting devices. Mine operators around the world rely on Altra brands and companies including Twiflex, Wichita Clutch, Svendborg Brakes, Industrial Clutch, Marland Clutch, Formsprag Clutch, Boston Gear, Bibby Turboflex, TB Woods and Guardian Couplings.



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These power transmission products are designed to provide the highest levels of performance in applications including conveyors, crushers, breakers, hoists, blast hole drills, haul trucks, reclaimers, belt filter presses and more. OEMs routinely rely on the vast mining experience and application knowledge of Altra's engineering teams in the design and manufacture of their mining equipment, while mine operators rely on Altra for repair and support services. For example, during maintenance procedures on caliper brakes, it requires high levels of experience and expertise to correctly set the air gap to provide the required braking torque.

Altra Industrial Motion provides service and repair centers that are strategically located close to many of the world's largest mining regions. This level of global support helps keep mine operations running smoothly and profitably by reducing downtime. For example, Altra has certified rebuild and service facilities in North America, South America, South Africa and central Europe, recognizing the importance, not only of local presence, but also of native language speakers. Services can include commissioning, maintenance, comprehensive overhaul, and even a complete rebuilding of the original component.

Altra's certified repair and support services ensure that equipment is maintained to the highest standards to guarantee long-term asset availability. The company can point to many instances where faulty installation or the

use of non-genuine parts has quickly compromised an operation, in some cases causing significant damage to other areas of the powertrain.

A good example was the installation of non-genuine replacement friction discs in a large 60-inch Wichita Standard Ventilated Clutch. Upon machine start-up following the installation, it was discovered that the discs were severely unbalanced, which led to a very high level of vibratory load and subsequent premature tooth failure. Although the machine was stopped almost immediately after installation, damage had already been inflicted on the main clutch parts unfortunately, resulting in unnecessary expense and downtime.

The sophistication of today's mining equipment makes it impossible for mine operators to maintain systems themselves, and the training requirements for staff to be able to undertake the more critical aspects of maintenance are too onerous to be cost-effective. Putting maintenance, repair, refurbishment and replacement of power transmission components, along with their commissioning, in the hands of the manufacturers who know those products inside out makes sound business sense. With its repair and support services, delivered locally by engineers who combine intimate knowledge of the products with high levels of mining equipment expertise, Altra is on hand to ensure that operators get the highest levels of availability from their key assets.

## About Altra Industrial Motion

Altra is a leading global designer and manufacturer of quality power transmission and motion control products utilized on a wide variety of industrial drivetrain applications. Altra clutches and brakes, couplings, gearing and PT component product lines are marketed under the industries' most well known manufacturing brands. Each brand is committed to the guiding principles of operational excellence, continuous improvement and customer satisfaction. Highly engineered Altra solutions are sold in over 70 countries and utilized in a variety of major industrial markets, including food processing, material handling, packaging machinery, mining, energy, automotive, primary metals, turf and garden and many others.

Altra's leading brands include Ameridrives, Bauer Gear Motor, Bibby Turboflex, Boston Gear, Delevan, Delroyd Worm Gear, Deltran, Formsprag Clutch, Guardian Couplings, Huco, Jacobs Vehicle Systems, Kilian, Kollmorgen, Lamiflex Couplings, Marland Clutch, Matrix, Nuttall Gear, Portescap, Stieber, Stromag, Svendborg Brakes, TB Wood's, Thomson, Twiflex, Warner Electric, Warner Linear and Wichita Clutch.



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