

www.sumitomodrive.com

Contact your local representative at www.sumitomodrive.com/representative Tel: 1-800-SM-CYCLO (762-9256) 01.079.51.006 Mining Brochure 2024





Mining



Why choose Sumitomo Drive Technologies for Mining applications?

We know the Mining Industry

The Mining industry plays a vital role in some of our everyday needs. Materials obtained from mining are an essential component of modern technology. They can create everything from home energy with coal to powering smartphones with gold, silver, copper, and more.

Sumitomo Drive Technologies understands the world's reliance on the mining industry and its importance. We've increased our efforts in supporting this essential industry with a robust combination of products, people, production, programs, and perseverance. Sumitomo's presence on the global mining stage speaks volumes about our past, present, and future commitment to it.

Our company is one of the world's leading suppliers of drive packages for the mining industry. Whether you're mining copper in the mountains of Chile, coal in the Appalachian, or Potash in Saskatchewan, Sumitomo has gearing and drive solutions to meet your needs. From overburden to ship loading and every application in between, our team of expert engineers worldwide combines knowledge and experience to design custom solutions that meet any demand. Mining applications and environments are tough, but our gearboxes are tougher. With so many ways to lower your total cost of ownership, let Sumitomo help keep your operation running effectively and efficiently.

The Right Gearbox for the Right Job

We are interested in selling the right gearbox for the application—not just any gearbox in our inventory. Sumitomo Drive Technologies has the products that perform.

Standard large industrial gearboxes are pre-engineered and manufactured to be assembled from our inventory. Local engineering, manufacturing, and assembly allow us to customize these products to meet your needs.

Our large industrial gearboxes also have various upgrades and performance monitoring products to keep each gearbox in action. By following our preventative maintenance procedures, you ensure your gearbox lives a long life. If your gearbox has an issue, our experienced network of aftermarket experts are always available. Plus, with one of the longest warranties in the gearbox industry, your operation is well protected. We ask the right questions to ensure you have the correct industrial gearbox for your specific application. Customer experience is our top priority, and we want to ensure that our customers can get the modifications or custom options they desire.

We offer the toughest drives available to meet the harshest demands.



PARAMAX® 9000

- AGMA Class 11+ Gearing
- Power Dense
- 25° Pressure Angle Gear Teeth



(1) HANSEN UNIMINER

- Rugged Flippable Housing
- P4 Gearing
- Competitive Drop In



W HANSEN VERTICAL P4

- Standard Drywell
- Horizontally Split Housing
- Maintenance Free Oil-Lock®



P4 HANSEN P4

- Rugged Housing
- Large Lube Capacity
- Modular Design



CYCLO® BBB 4

- Taper-Grip[®] Bushing
- Compact Design
- Multiple Input Styles



CYCLO® 6000

- Cycloidal Technology
- Optimal Efficiency
- Hi-Shock Overload Resistance



EB CYCLO® HBB

- Cycloidal Technology
- Splash Lubrication
- Modular Design

Old gearboxes are high maintenance and use outdated technology and parts.

The Challenge: **Outdated technology** and unsafe conditions

Older speed reducers use old technology involving multiple components to transmit torque. In doing so, this requires bulky safety covers required for safe operation to minimize pinch points and the subsequent dangers that come with it.

Obsolete Equipment Problems:

- Reduced operating efficiency
- Alignment concerns and issues •
- Lubrication results in leaking oil and a dirty operating environment
 - Worn and noisy components •

More wear parts to maintain •

- Difficult to repair and/or replace •
- Higher shaft loads and bearing wear •

Modern gearing technology offers lower maintenance and safer operating options.

The Solution:

More efficient gearbox with the reduction needed to eliminate extra outdated components

Our gearboxes can be manufactured in many different ratios and various output shaft arrangements. We have an assortment of options to choose from to help you incorporate the total reduction of the gearbox and sheave/chain drive combination into one simple, reliable, robust, and safe drive system. With Sumitomo powering your mining operation, you can expect reduced operation costs, increased efficiency, and a known brand to help you with your gearbox needs.

Sumitomo Problem Solvers:

- Sumitomo offers multiple sealing solutions
- Newer technology often means smaller units which mean less oil to store or worry about.
- New gearboxes come with new technology, new unit warranties and support.
- Sumitomo products are designed with current technologies for high capacity, high efficiency, low noise and reliable operation.

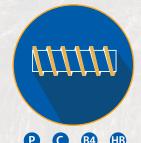




Travel Drives



Screw Conveyor



Winches



Bucket Elevator



Mixer/Aerator/Flotation



Apron Feeder



Ball/SAG Mill



Kiln



Crusher/Sizer

P P4 G



Slurry Pump







Radial Stacker



Feeder Breaker





Our team of factory-trained technicians has centuries worth of experience.



Global Support, Local Service

Our personnel are the industry's most versed gearbox problem solvers. We provide both standard and tailored services, for maximum gearbox life.

With a vast network of engineers and gearing experts, there is no problem we can't handle.

In addition to our extensive network, LUFTEX Gears Manufacturing and Services provide unmatched capabilities and expertise in the area of custom gearbox repair and service. With a **60-ton crane** capacity and 41 ft hook height, no gearbox is too big for us to handle.

Whether custom gear manufacturing or on-site gearbox repair, let our team at LUFTEX keep your operation running.

On-Site Solutions

Our team of experienced technicians and

SERVICE SOLUTIONS

- Engineering Design and Analysis
- Design Upgrade Recommendations
- Disassembly and Evaluation of Gear Units
- NDT Inspections
- Manufacturing of Gear Components
- Full-Service Machine Shop
- Field Service Rebuilds and Repairs
- Commissioning and Start-Up Services
- Root Cause Investigations



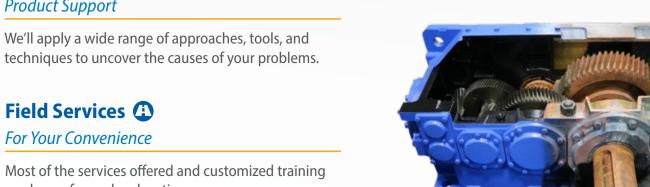
Our gearing engineers can design upgrade options for existing units to increase performance or design complete custom drop-in replacement units that fit into an existing footprint and envelope.

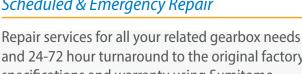
engineers can travel to your location to complete your requested repairs and maintenance. These solutions can minimize downtime and get your operation back up and running.

Flexible Solutions for Your Business Needs

- Reverse Engineering of Customer Components

- On-Site Technical Support for Customer Repairs
- Condition Monitoring





Repairs 🧬

Scheduled & Emergency Repair

and 24-72 hour turnaround to the original factory specifications and warranty using Sumitomomanufactured parts.

Extended warranty programs are available upon request.

Root Cause Investigation

Product Support

techniques to uncover the causes of your problems.

Most of the services offered and customized training can be performed on location.





Repair and Rebuild Solutions

Scheduled or emergency repairs can be completed

team. Utilizing OEM parts and in-house machining

and manufacturing capabilities allows us to meet

on time and within budget by our Aftermarket

your needs for a quality and timely repair.

Connecting you to the Service you need

web: SumitomoDrive.com email: SMA.Service@shi-q.com phone: 757-485-3355



Custom drop-in units made to match existing unit's critical dimensions.

Retro-Fits and Drop-Ins

Whatever your requirements, we have a solution for you. Sumitomo offers customized bases which allow our units to match the footprint of an array of existing applications and drop-in gear drives to upgrade and replace competitor units.

With a wide range of options, our engineers can replace your unit with minimum impact while delivering a premier product with performance and reliability.

Retro-Fit

Match existing footprint

A custom transition base will position the new low-speed shaft to be in the EXACT same position as the original low-speed shaft. Our retrofits provide an excellent balance between the cost savings of a standard gearbox and the benefits of minimal on-site modifications.

Typically, only relocating the motor mount is required for this option. We offer motor mounting options to help minimize the impact of relocating the motor mount, such as flanged motor adapter for c-face or d-flange motors.

Options might include a special low-speed shaft diameter or length and motor lantern.

The red circles in the diagram represent the existing bolt pattern of a customer's unit. The transition base is fabricated to match the height, ensuring alignment of the low-speed shaft to the machine shaft.



Match existing unit's critical dimensions

Sumitomo's installation-ready units are designed specifically to drop-in to existing applications with no problems. Our expert engineers understand that on-site modifications or re-engineering your system is not always an option.

With downtime being such a critical factor in your operation, let us install one of our custom drop-in units.

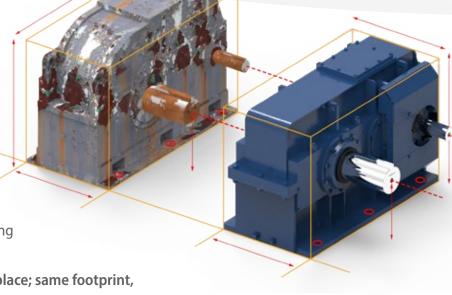
Our stress-free units can have your application back up and running in no time. We offer fabricated steel housings, custom baseplates, custom gearing and shafting and more!

This product will literally drop-in to place; same footprint, same shaft positions!

Specialty Units

For non-standard gearing and custom ratios, we offer special customized units to fit in any application. From custom paint to intricate gearbox lubrication systems, our team of engineers will make sure all of your custom gearbox needs are met.

We have exceptional engineering and factory capabilities to support you on your gearbox needs.





We take asset management seriously, because we know you do.

Avoid catastrophic failure, minimize risk and increase machine uptime.

System Management And Reliability Technology (SMART)

SMART is a range of products and reducer options that were developed to help end users in their reliability and asset management initiatives within their plant's daily operations.



Reliability Monitoring

These reducer option packages will help in the consistent collection of data. For Vibration analysis, as well as oil condition and cleanliness testing

Large Industrial Gearboxes

OPTIONS*

Opt 1: Machined Accelerometer Mounting Pads Only

Opt 2: Opt 1 + Accelerometers Wired to Junction Box

Opt 3: Opt 2 + Outputs to Customer PLC or DCS

YOU THINK!



Condition Monitoring

Fully customizable systems provide real time condition data of any piece of rotating equipment. Providing an accurate condition signal without the need for further analysis

All Gearboxes

OPTIONS **

Vibration + Temperature Input

Vibration + Oil Level Input

Vibration + Oil Condition

WE THINK!

CycloSMART® Benefits

Safe

Monitor assets from the safety of your desk via networked connections

Predictive

Machine diagnostics for early warning and detection to avoid failure

Optimization

Customizable systems to meet many different application needs

RECK ENGINE LIGHT SPEED REDUCERS

- * All DriveSMART® options include: Oil sampling pitot tube, and Oil Breather package that incorporates oil fill and drain ports.
- ** All CycloSMART® systems are customizable with many different options for data monitoring. Examples are shown.

Learn more at: SumitomoDrive.com/CycloSmart

Expandable

Multi-reducer monitoring

Reliable

Schedule machine downtime to avoid lost production

Cost-Effective

Lower overall ownership cost



OPTIDRIVE E3



C C C Bus EHI Compliant with international standards.

• IP20 IP66



Non-Switched











GENERAL PURPOSE DRIVE

Compact, robust, and reliable general purpose drive.

Focused on ease of use, Optidrive E3 provides unrivaled simplicity of installation, connection, and commissioning, allowing the user to benefit from precise motor control and energy savings within minutes.

Available in IP66/Nema 4X outdoor rating with rigid polycarbonate plastics specifically chosen to withstand degradation by ultraviolet (UV), greases, oils, and acids. Also, robust enough not to be brittle at -20°C (-4°F).





INTEGRATED DISPLAY

LED multi-language text display.

INTEGRATED CABLE MANAGEMENT

PLUGGABLE CONTROL TERMINALS

FANS

High quality long-life fans.

OPTIDRIVE P2

HIGH PERFORMANCE DRIVE

High-performance variable frequency drive for standard induction and permanent magnet motors.

Its user-friendly interface and high performance make it perfect for tackling the most demanding applications smoothly.

Extensive I/O and communications interface capabilities ensure the drive can be integrated quickly and efficiently into a wide variety of control systems.

Dedicated Hoist Mode Operation with motor holding brake control makes it perfect for marine and elevator applications.





POWER OPTIONS Single-Phase: 200-240V 3-Phase: 200-600V



TORQUE Up to 200% (From Zero Speed)

200% Overload for 4 secs

• 98% Typical Efficiency

• Integral Brake Transistor

Our factory capabilities support all of your gearbox needs.

The most reliable and highest quality products backed by a 400 year heritage.

Why Sumitomo?

Our 400 Year Heritage

The history of the Sumitomo Group started more than 400 years ago when Masatomo Sumitomo opened a book and pharmacy store in the city of Kyoto, Japan.

Today, the Sumitomo Group consists of more than 20 companies who share the Sumitomo Emblem as well as many common values and ideals.

Devoted to Quality

In addition to one of the most comprehensive product lines of any power transmission company, we offer the most reliable and highest quality products available in the industry. Whether it's product development or manufacturing processes, our Quality culture resonates through our entire global network.

Committed to our Employees and the Community

We recognize our employees are our most valuable asset. They are the driving force behind our innovative products, our ability to support our customers, and our commitment to continuous process improvement. We strive to be a valuable member of society and take pride in the contributions we make to our communities across North and South America.

Dedicated to Innovative Manufacturing

With more than a century of expertise in manufacturing, our global capabilities are unmatched in the industry. We have manufacturing and assembly facilities on every continent and continue to make investments in our manufacturing technologies to maintain our position as a leader in innovation.

Centers of Excellence

Our Centers of Excellence offer customers a nationwide support network. From inventory distribution to manufacturing to assembly, we have the team to ensure high quality, responsiveness, on-time delivery, and quick lead times.



Chesapeake, VA

Manufacturing, Support, Inventory, and Training

Our Western Hemisphere headquarters has 360,000 sq ft of manufacturing space, and cutting-edge technology. Centralized inventory distribution with a Foreign trade zone (FTZ), focused on inventory optimization, motor assembly, and hands-on training at our Power Institute.



Verona, VA

Industrial Gearbox Production
This purpose-built facility is specifically designed to handle the assembly of our large industrial gearboxes.



Lufkin, TX

Manufacturing and Services
This 32,000 sq ft facility handles
gear manufacturing, gearbox repairs,
and reverse engineering.



Glendale Heights, IL

Gearmotor Assembly and Support

Houses our state-of-the-art paint system for our SHIELD360® packages for Cyclo®, BuddyBox®, and Hyponic®.