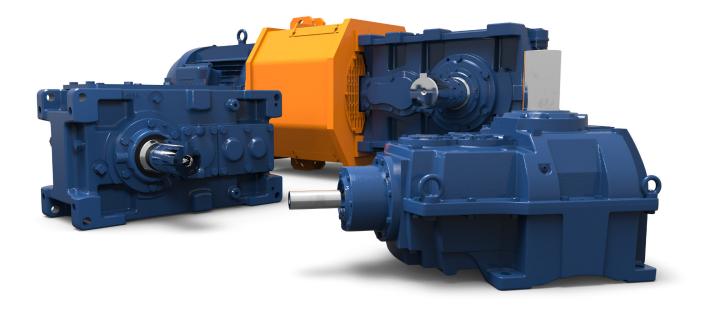


www.SumitomoDrive.com

Tel: 1-800-SM-CYCLO (762-9256) 26.001.51.03 LG IND GB 2020



Large Industrial Gearboxes



The widest range of standard catalogued large industrial gearboxes on the market.

A purpose-built facility for all of your large industrial gearbox needs.

Seriously Large Gearboxes

Paramax® offers a rugged, flexible, economical option with a robust, proven design. This allows for quick shipments, with a wide range of options for a reasonable price.

Hansen products offer an engineered solution to meet your applications most demanding needs. Hansen vertical gearboxes incorporate the best features that long-running and heavy-duty applications require.

The Sumitomo Drive Technologies Standard

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.

Our Paramax® and Hansen brands offer the widest range of large industrial gearboxes on the market. Historically, we have supplied products that have outperformed our competition in the toughest of industries, such as forestry, steel, and mining.

With a reduced average lead time, sizeable domestic inventory and a staff of specialized engineers and manufacturers, customers are able to select from a wide range of products and options to solve their toughest problems.

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.

Verona Facility

Our industrial gearbox facility is tucked along the industrial corridor of I-81 in the picturesque Shenandoah Valley of Virginia. This purpose-built facility was designed to efficiently handle the inventory, machining, assembly, quality control, and testing for our entire line of industrial gearboxes in the United States.



Custom

Purpose-Built Facility
Optimized to build over 100 large industrial gearboxes a month.
There's little we can't handle.



Machining

On-Site Machining Capabilities
With a full-service machine
shop at our disposal, we keep
costs and lead times down.



Inventory

Dedicated Distribution Center
With centralized inventory to
support the Western Hemisphere,
we've got you covered.



Innovation

Information Technology
With the latest software and technology we aim to provide a world-class customer experience.



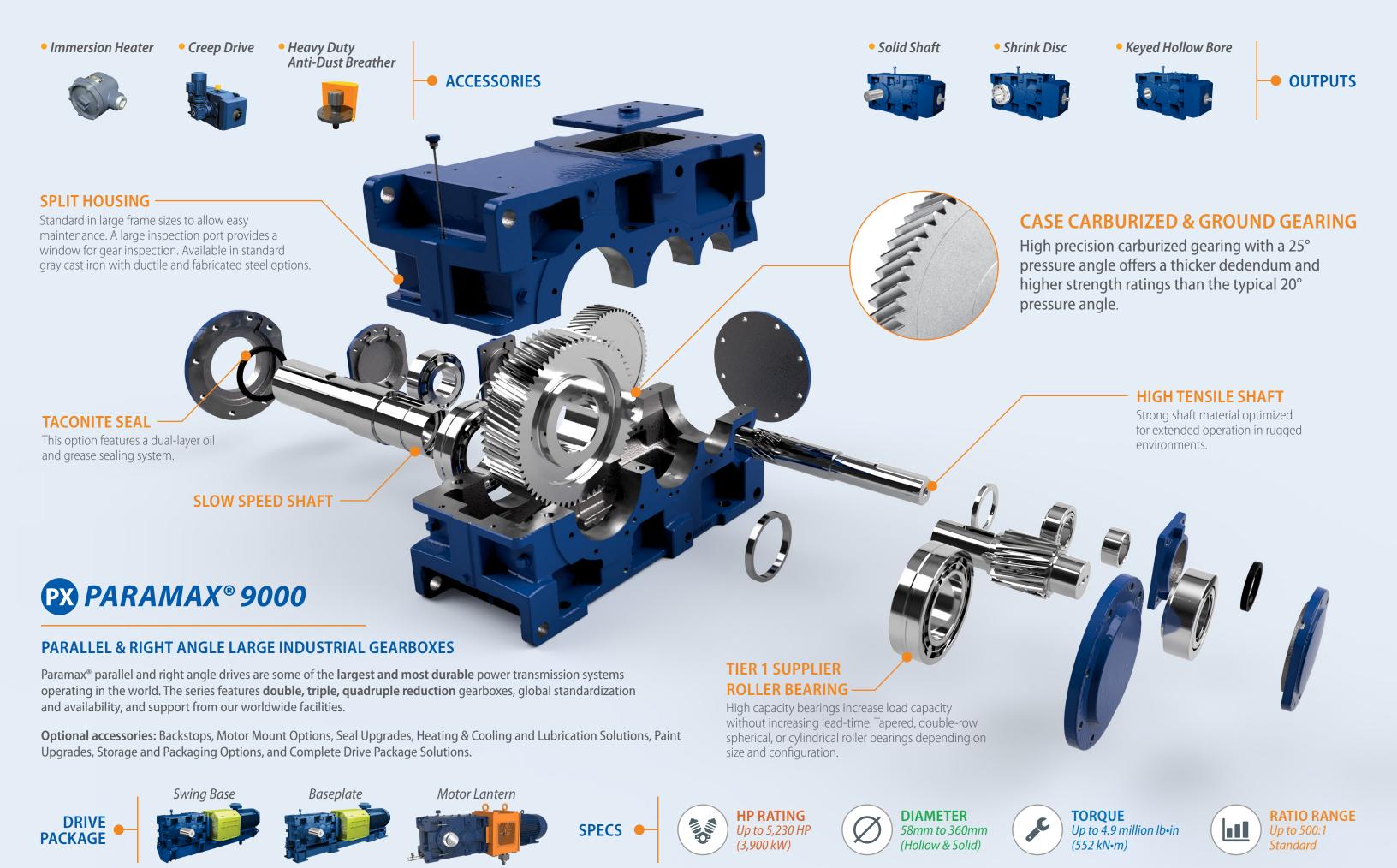
People

A Wealth of Experience
Decades of experience make our
gearbox team some of the best in
the industry.



Quality

Rigorous Standards
American Made. ISO 9001
certified. Member of AGMA, PTDA,
CSA, EASA. We don't compromise.





















VARIATIONS

SPLIT HOUSING

Rugged, split housing for horizontal and vertical applications. Round housing tops help keep the unit free from debris.

GEARS -

High torque geometry in low-speed gears. Low-noise geometry in highspeed gears.

PINION SHAFTS -

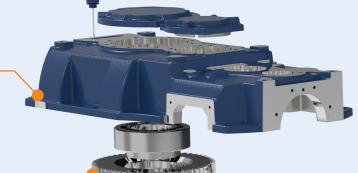
Rigid standardized pinion shafts and housings for better lateral load distribution.

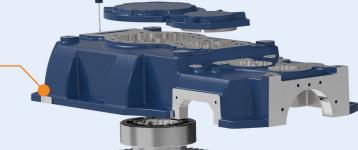
SLOW-SPEED SHAFT

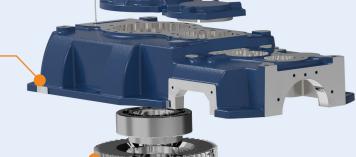
Shaft projections include captured keyways with rounded end key inserts to eliminate stress concentrations.

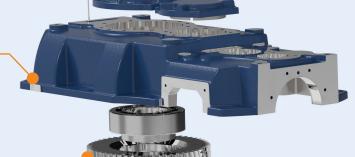
INTERNAL HOUSING

Exceptional construction ensures bearings are lubricated at start-up to maximize reliability and life.











Extended Bearing





REMARKABLE POWER AND PERFORMANCE WITH LOW NOISE

The Hansen P4 multi-stage gear unit is market leading in quality and technology, excelling in reliability and durability. The rugged housing, along with our commitment to innovating state-of-the-art technology, provides remarkable power and performance.

The unique Oil-Lock™ system offers a maintenance-free seal on high speed shaft extensions, designed to keep the oil in and dirt out.

Optional accessories: Backstops, Motor Mount Options, Multiple Sealing Upgrades, Various Heating, Cooling, and Lubrication Options, Heavy Duty Paint or Packaging Options, and Complete Drive Package Solutions.



INTEGRATED DRYWELL

Cast into 3 and 4 stage vertical housings mean this option provides a truly leak-proof lowspeed shaft.

HIGH-SPEED SHAFT

Extra long high-speed shaft projections suitable for interference-free coupling connections.

MAINTENANCE-FREE OIL-LOCK®

Standard high-speed seal arrangement.



Normal Solid Shaft Oversized Solid Shaft Extended Bearing Housing

Hollow Shaft - Keyed Hollow Shaft - Shrink Disc **SPECS**









TOROUE Up to 9.7 million lb•in (1.1 million N•m)





1 unit = 2 shaft assemblies,2 inspection covers and 2 nameplates



MOUNTING







Solid Shaft

Hollow Shaft (Keyed or Shrink Disc)

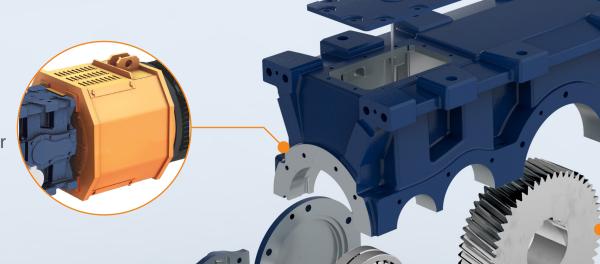


U HANSEN P4 UNIMINER



MOTOR LANTERN

Flippable, alignment-free housing design with pilot for lantern housing.



DROP-IN REPLACEMENT FOR MOST OTHER ALIGNMENT-FREE DRIVES

The Hansen P4 UniMiner features a **robust design** that offers **versatility** for different mounting positions. With a 'flippable' housing and horizontal split line, it's the ideal alignment-free drive package.

Hansen Industrial Gearboxes' P4 UniMiner gear units are compact and optimized for mining and other applications involving bulk material handling.

Optional accessories: Backstops, Heating and Cooling Options, and Complete Drive Package Solutions.

EXTENDED TILT CAPABILITY

Mounting can be varied by +/- 3 degrees without additional lubrication system modifications.

HIGH SPEED SHAFT

Extended projection allows for coupling installation without interference.



Reinforced ribbing provides optimal strength in key areas. Designed to accommodate large motor mounting options. Pilot for motor lantern is standard.

P4 GEARING

Precision carburized and ground gearing delivers high capacity, optimum efficiency and quiet operation.

TACONITE TYPE SEALS

Optional taconite seal that is standard grease purgeable with internal drain-back allows for superior oil-flow to bearing while maximizing seal life.





Flexible or Hydro-Dynamic Couplings Motors including large heavy-duty Optional D-Flange or C-Face







DIAMETER 45/8in to 71/2in (Hollow & Solid)



TORQUE Up to 889,000 lb•in (100,445 N·m)



Retro-Fit units with transition bases allow us to match your existing footprint.

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 Drive Technologies 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

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

Installation-ready units are designed specifically to drop-in to existing applications with ease. Our expert engineers understand that on-site modifications or re-engineering your system is not always an option.

These 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 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

REPORT OF SPEED REDUCERS

- * All DriveSMART® options include: Hydroscopic breather with 3mm filter, drain/fill connection for on-line filtration, and oil sample pitot tube port.
- ** 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



Our factory capabilities support all of your gearbox needs.

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



Repairs 🔗

Scheduled & Emergency Repair

Repair services for all your related gearbox needs 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

Apply a wide range of approaches, tools and techniques to uncover the causes of your problems.

Field Services (1)

For Your Convenience

email: SMA.Service@shi-q.com

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

phone: 757-485-3355

Aftermarket

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

Experts in Service

Global Support, Local Service

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 provides 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.



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.

