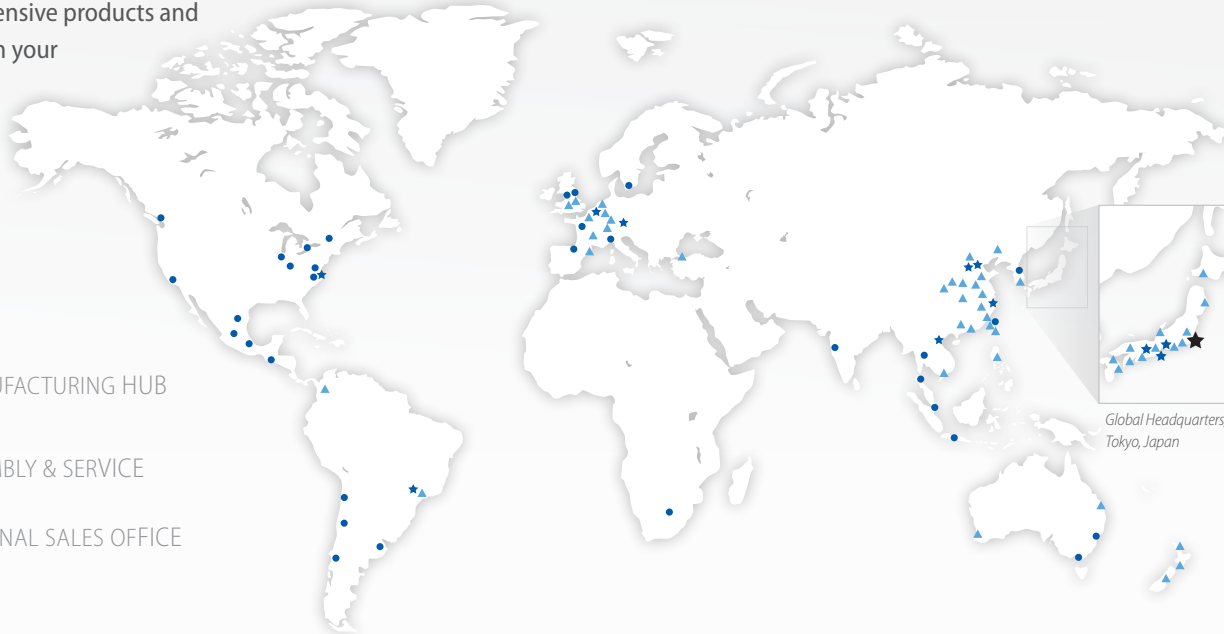




Sumitomo Drive Technologies

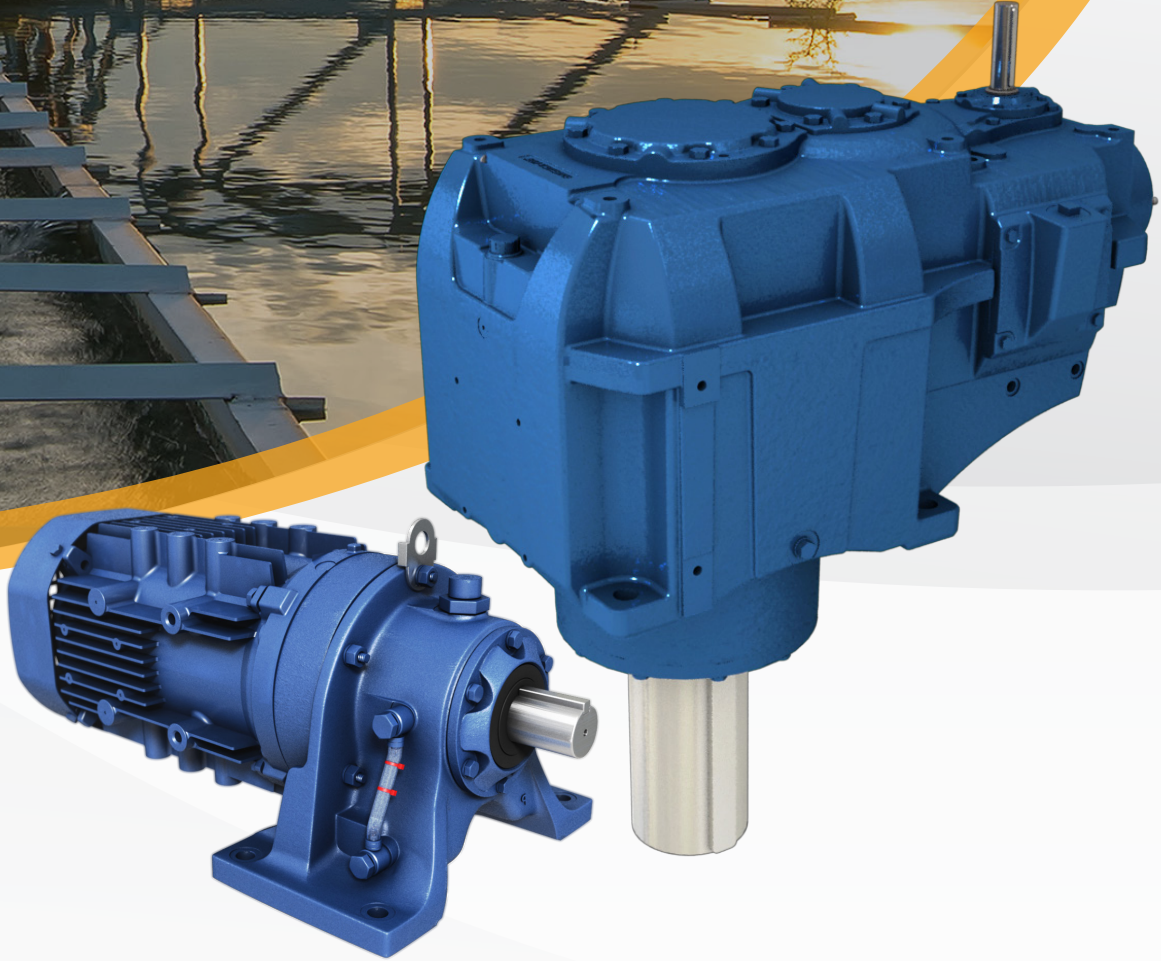
Sumitomo Drive Technologies

Sumitomo, Hansen and Seisa. Three brands, one global power transmission solutions provider. Sumitomo Drive Technologies has facilities strategically located throughout the world, providing comprehensive products and services in your region.



Sumitomo Machinery Corporation of America
www.sumitomodrive.com

For worldwide locations, please visit www.sumitomodrive.com/worldwide
Contact your local representative at www.sumitomodrive.com/representative
Tel: 1-800-SM-CYCLO (762-9256)



 **Water Treatment**

Sumitomo Machinery Corporation of America

Why choose Sumitomo Drive Technologies for Water Treatment applications?

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

We know Water Treatment.

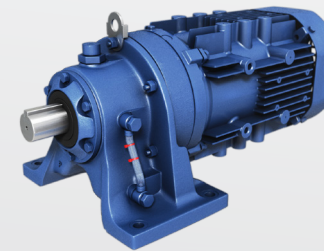
Water treatment facilities must operate 24 hours a day under severe conditions. Sumitomo Drive Technologies has been helping plants in the Americas minimize downtime by supplying reliable, high-performing drives with long life cycles. We have knowledge on the challenges this industry faces and have the solutions that deliver the lowest possible life cycle cost and the highest level of performance.

Our Cyclo® Technology Leads the Industry in Reliability and Performance.

- Cycloidal “gearless” speed reduction components operate in compression, not shear; the torque transmitting parts roll providing quiet, efficient, and reliable performance.
- Cyclo gearing is remarkably compact, with ability to provide high ratios in a small space envelope.
- Cyclo technology offers a rugged performance, allowing Cyclo speed reducers and gearmotors to withstand shock loads exceeding 500% of their ratings.

Sumitomo's Solutions

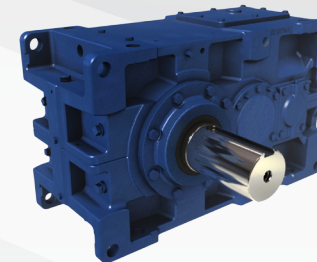
Sumitomo Drive Technologies manufactures a wide variety of enclosed gearing designed to drive wastewater treatment equipment. Using our expertise, we've adapted our standard drive parts to suit the harsh conditions of each wastewater industry application. The result is a comprehensive range of Sumitomo power transmission products tailored specifically for this industry.



CYCLO® 6000

- Efficient
- Reliable performance
- 500% momentary shock load capacity

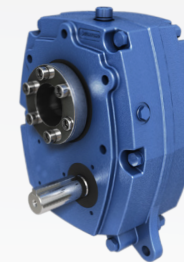
C



PARAMAX® 9000

- Multiple reduction gearboxes
- Global standardization
- Offset parallel and right-angle configurations

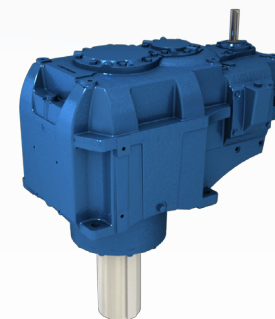
PX



HSM (HELICAL SHAFT MOUNT)

- Hollow shaft
- CEMA screw conveyor drive shaft options
- Optimal performance

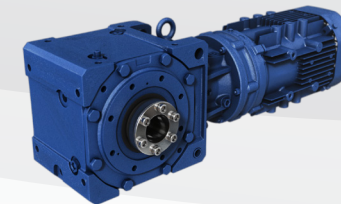
HS



HANSEN P4 Gear Units

- Various housing configurations
- Large oil sumps
- Output sealing systems

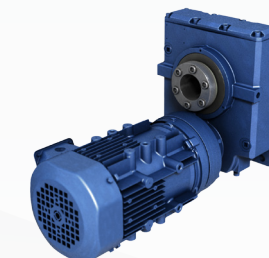
P4



CYCLO® BBB 4

- Ductile iron housing
- Multiple output styles
- Taper-Grip® Bushing

B4



CYCLO® HBB

- Parallel shaft
- Helical gearbox
- Cast iron housing

HB



HYPONIC®

- Maintenance-free
- High efficiency
- Universal mounting

H

Preliminary Treatment

Sumitomo power transmission products help transport water and solids through the preliminary screening and treatment processes (headworks).

Influent Pumping **P4 PX**

- Large quantities/low heads
- Self-aligning spherical bearings
- Accommodates heavy loads

Screening **HB HS B4**

- Unmatched shockload capacity
- Easy to install
- Easy to maintain

Grit Collector/Classifier **C HB P4 PX**

- Broad range of ratios, power ratings and inputs
- Product optimization
- Reliable performance

Primary & Secondary Treatment

After gravity sinks heavy solids, Sumitomo's products remove waste, aerate with biochemicals and clarify water.

Primary Settling Basins **C P4 PX**

- Superior sealing systems
- Optional grease lubrication
- Protection of components

Aerator/Mixer **C P4 PX**

- Dependable operation
- Vertical housing
- Dry well

Clarifiers **C HB HS B4**

- Long life
- Exceptional performance
- Easy maintenance

Sludge Processing

Sumitomo's units are optimized for even the most corrosive and demanding sludge processing applications.

Digesters **C HB HS B4 P4 PX**

- Reliable source
- Global standardization
- Large oil sumps

Sludge Dewatering **C HB HS B4 P4 PX**

- Compact
- Mounted Configurations
- Efficient

Conveyors **C HB HS B4 P4 PX**

- Optional sealing systems and coatings
- Resistant to harsh conditions
- Reliable performance

Power Generation

Optimizing the plant's operation with renewable energy results in environmental and economic benefits for the community.

Solar Trackers **C H**

- Grease lubrication
- Maintenance-free
- High efficiency

Water treatment infrastructures are aging and we are ready to help with the challenges that utilities will be facing.



WASTEWATER
TREATMENT

We meet the challenges that water treatment plants confront every day.

Sumitomo has the reliable solutions for any challenge faced.

The Challenge

Drinking water regulations are tightening, while your plant is under pressure to reduce costs. Your power transmission drives must deliver the highest level of performance at the lowest possible life-cycle cost.

Modernize your plant with Sumitomo Drive Technologies

Outdated Equipment Problems:

- Low efficiency
- Oil leakage
- Difficult to obtain spare/obsolete parts
- Frequent maintenance and repairs
- Many wearing components
- Large cumbersome units

The Solution

We manufacture a wide variety of speed reducers to meet the specialized needs of water treatment facilities. Recognized for high efficiency, we have durable solutions that provide reliability for your water treatment equipment. Using our expertise, Sumitomo develops packages suited for your industry's demanding conditions.

Sumitomo Modern Solutions:

- Cycloidal speed reduction technology
- High efficiency
- Grease lubrication option
- Integral, compact torque limiter with multiple set points
- Transition baseplates for easy, drop-in replacements
- Compact designs with high ratios available

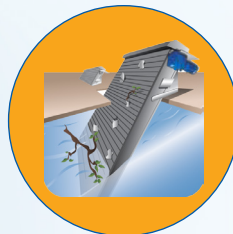


CLEANWATER TREATMENT

Raw Water Screening

- Reliable drive screening
- Grease-lubricated
- Environmentally friendly

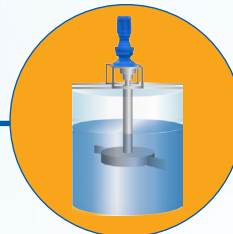
C HB B4 Y



Rapid/Flash Mixing

- Increased efficiency
- Low-energy consumption
- Reliable

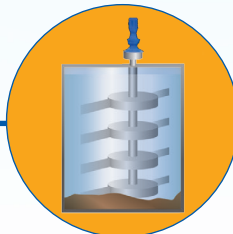
C B4 PX P4



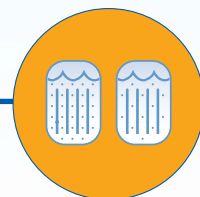
Flocculation

- High efficiencies
- Reliable
- High shock capacities

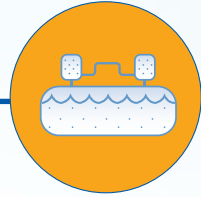
C B4 HB P4



Filtration



Disinfection



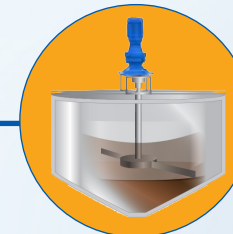
Water Storage, Distribution, and Consumption



Sludge Thickening

- Adjustable torque limiters
- Protection from overloads

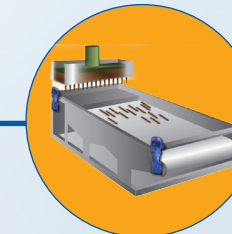
C HB HS B4 H



Sludge Dewatering

- Rugged bearing
- Forged steel components
- Durable

C HB HS B4 H



Sludge Disposal



Our factory capabilities support all of your gearbox needs.

Our team of engineers creates custom solutions and a variety of drop-in units.

Product Support Group

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 Sumitomo-manufactured parts.

Extended warranty programs are available upon request.

Before



After



Inspection Reports

Data

Professional, industry leading inspection reports detail findings, and highlight repairs required to return your gearbox to like new condition.

Contact Product Support Group (PSG) at:
phone: 757-485-3355 email: Service@suminet.com

Field Services

For Your Convenience

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

Root Cause Investigation

Product Support

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

Commissioning & Start-Up Services

The Key to Long Life

Our commissioning and start-up services ensure that your gearbox is deemed ready for service.

Quick Ship Program



Sumitomo offers **same day, 1-day** and **2-day** shipping on many of our standard products. For more information about Quick Ship, please consult your Sumitomo representative.
www.SumitomoDrive.com/QuickShip

Special and Drop-In Units

Special Units

Custom Needs Require Custom Service

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

With the right information, we have the capability to meet all of your gearbox needs.

Drop-Ins

We Retrofit, You Drop-In

Sumitomo offers special customized units to fit in an array of existing applications. Additionally, Sumitomo offers drop-in gear drives to upgrade and replace obsolete units. From fabricated steel housings, to custom baseplates, Sumitomo can offer installation ready units that reduce your downtime and eliminate the need to re-engineer your system.

Sumitomo has exceptional engineering and factory capabilities to support you on your gearbox needs.

CycloSmart™ Vibration Monitoring System



Provides predictive maintenance by notifying customers—via local ethernet or broadcast—if the machine needs attention. CycloSmart™ increases machine uptime, enabling customers to schedule convenient maintenance for their facility.
For more information: www.SumitomoDrive.com/CycloSmart



We offers a comprehensive lineup of reliable and high quality power transmission products.

Our Centers of Excellence offer customers a nationwide support network.

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



Chesapeake, VA

Manufacturing & Product Support

Western Hemisphere headquarters with 250k sq ft of manufacturing space, and one of the largest bridge mills in the U.S. Recipient of "The Best Overall Company in Hampton Roads Award."

C H B4 B5 HB HS



Suffolk, VA

Centralized Inventory Distribution

Foreign trade zone (FTZ), focused on inventory optimization and distribution to the Western Hemisphere.

L



Louisville, KY

Small Gearmotor Production

Centrally located in the heart of America. Supplies Cyclo®, Hyponic® and HSM products to U.S. customers.

C H HS



Verona, VA

Industrial Gearbox Production

Specifically designed to handle the assembly of large industrial gearboxes.

PX P4



Glendale Heights, IL

Gearmotor Assembly and Support

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

C H B4 B5 HB



Corona, CA

Gearmotor Assembly and Support

Our West Coast location supplies Cyclo®, BuddyBox® and Hyponic® products to U.S. customers.

C H B4 B5 HB

DOE Compliant



Sumitomo offers premium efficiency integral motors. To maximize their performance, a host of advanced features has been developed to provide tangible benefits to OEMs and End Users.