

Sumitomo Drive Technologies

Sumitomo Machinery Corporation of America

**Reliable Power
Transmission Drives for the**

CLEAN WATER TREATMENT

Industry



*Innovative Products
Premier Performance
Engineered Excellence
Reliable Quality
Global Network*



Sumitomo Drive Technologies recognizes the challenges that clean water treatment plants confront every day.

Safe, reliable water is vital to the communities you serve.

Drinking water regulations are tightening, while your plant is under pressure to reduce costs.

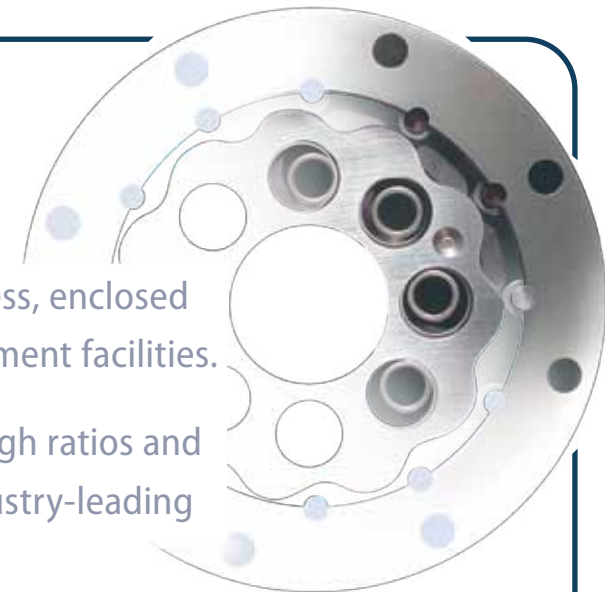
Your power transmission drives must deliver the highest level of performance at the lowest possible life-cycle cost.

And we can provide the solutions.

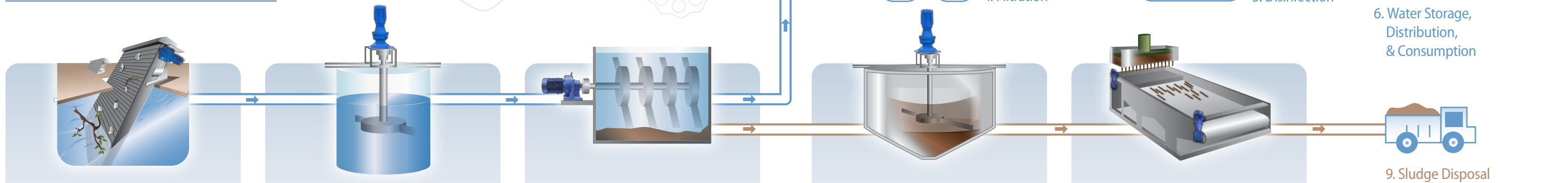
We manufacture a wide variety of unique, geared and gearless, enclosed speed reducers to meet the specialized needs of water treatment facilities.

Recognized for high efficiency designs that accommodate high ratios and resist overloads, we have durable solutions that provide industry-leading reliability for your water treatment equipment.

Using our expertise as one of the world's leading designers of water treatment speed reduction systems, Sumitomo develops packages suited for your industry's demanding conditions.



Application Solutions



1. Raw Water Screening

C H B Hy

Capable of operating at slow speeds and withstanding high shock loads from debris, Sumitomo's speed reducers reliably drive screening systems to optimize material capture. Our grease-lubricated, environmentally friendly models eliminate the risk of water contamination.

2. Rapid / Flash Mixing

C B P

Rapid and flash mixers introduce various coagulation chemicals such as Alum, into the raw water. Sumitomo's maintenance free, high HP speed reducers increase efficiency and lower energy consumption in this application.

3. Flocculation

C B H

During flocculation, large paddles slowly mix the water to help particles collide and settle out of the water as sediment. High efficiencies, even in reduction ratios over 10,000:1, make Sumitomo speed reducers ideal solutions for slow moving flocculator drives.

7. Sludge Thickening

C B H Hy S

The sludge thickening process collects and prepares sediment for dewatering. Designed for 24-hour operation, Sumitomo offers drives with field adjustable torque limiters built-in to protect equipment from overloads.

8. Sludge Dewatering

C B H Hy S

Sumitomo's speed reducers are ideal for dewatering equipment such as belt presses, screw presses and centrifuges. Rugged bearing and forged steel components give Sumitomo products the strength and durability to withstand up to 500% shockload.



C Cyclo® - Inline



B Bevel Buddybox - Right Angle



H Helical Buddybox - Offset Parallel



Hy Hyponic® - Right Angle



P Paramax® - Industrial Right Angle and Offset Parallel



S Helical Shaft Mount - Offset Parallel

Cyclo Technology Benefits:

Cycloidal "gearless" speed reduction; torque transmitting parts roll, not grind, providing quiet, efficient, and reliable performance

Components operate in compression, not shear, resulting in exceptionally rugged, shock resistant performance

Sumitomo standard 24-month warranty, unlimited by hours of operation

Modernize your plant with Sumitomo Technologies

Sumitomo's products not only modernize your plant's equipment, but also optimize applications with high efficiency cycloidal speed reduction technology, integrated torque limiter options and service from a global leader in power transmission products.

Outdated Equipment Problems:



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

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 design



50 mgd plant relies on Cyclo® for over 20 years

In today's challenging clean water treatment environment, plant managers must often measure equipment value by life cycle costs and reliability.

Ownership costs such as energy, maintenance, repair and downtime, are often more significant than initial purchase cost.

With energy efficiencies exceeding 95% for some models, Sumitomo's innovative speed reducers are a proven choice for clean water treatment systems. Our 24-month warranty, unlimited by hours of operation, is our testament to Sumitomo product reliability.

This clean water treatment plant in the southwestern United States,

whose equipment is pictured, has relied on Sumitomo reducers since the plant opened 20 years ago.

The plant processes 50 million gallons of water per day, so reliable, trouble-free performance is essential.

After two decades of reliable service, the plant manager decided to upgrade the facility's existing 12 Cyclo® reducers in the flocculator basin; he never considered any other brand because Sumitomo's Cyclo® reducers operated without problems and were "so successful for 20 years." The original drives were reliable and efficient from the first day to the last.

