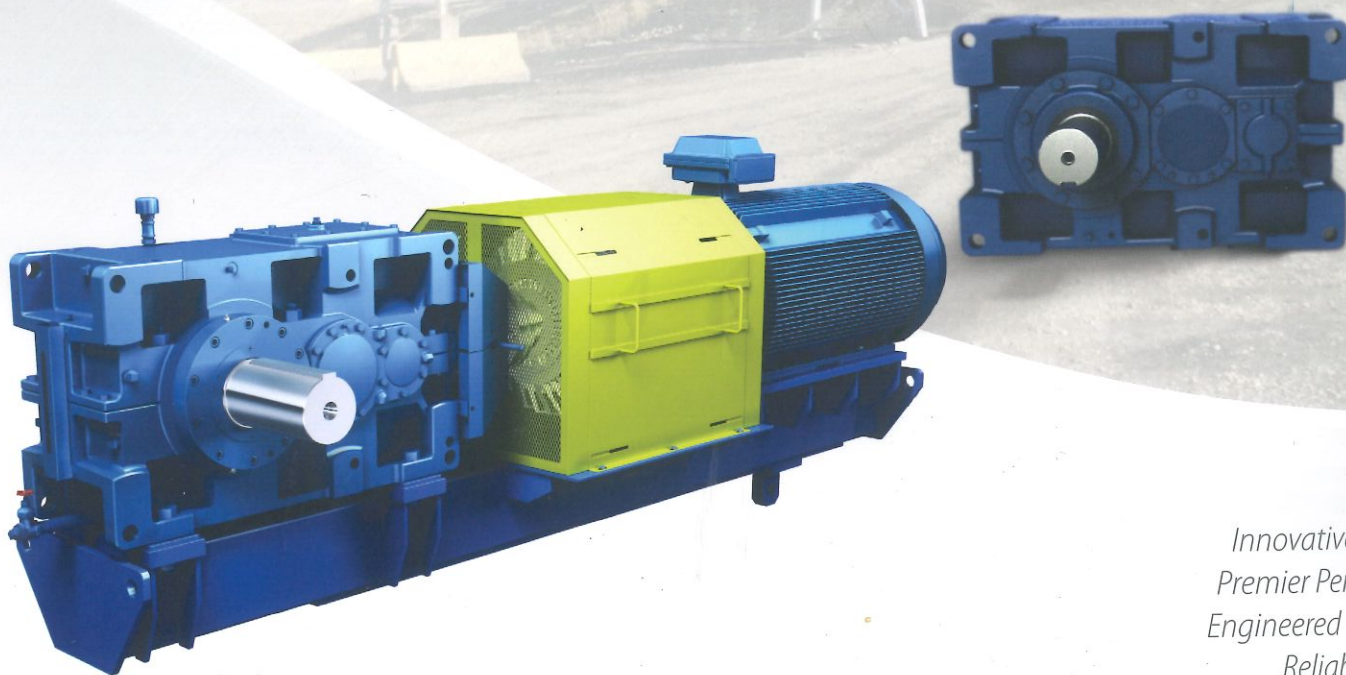


## Mining & Material Handling Industry

*Reliable Power Transmission Drives*

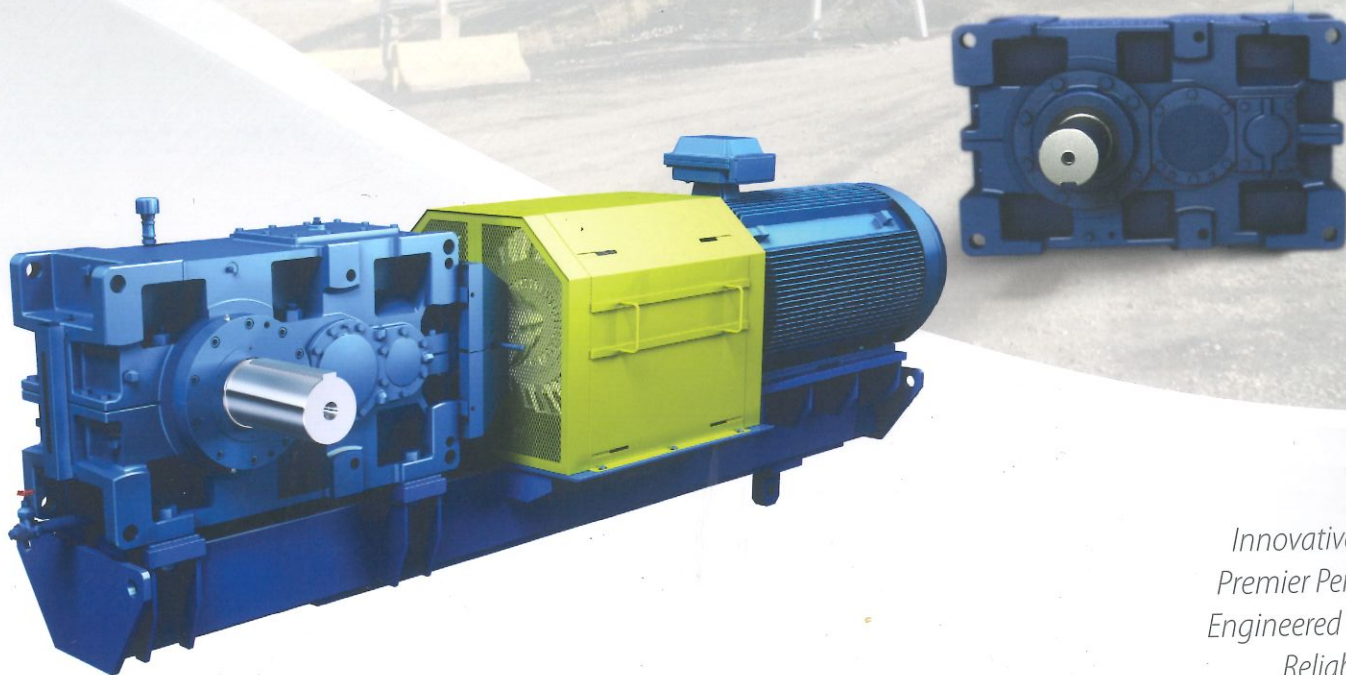


*Innovative Products  
Premier Performance  
Engineered Excellence  
Reliable Quality  
Global Network*



## Mining & Material Handling Industry

*Reliable Power Transmission Drives*



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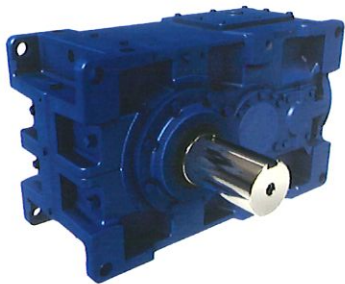


# Complete Product Range

We offer complete range of Industrial Gearboxes, whether Single or Multi- Stage Helical, Bevel-Helical and Planetary, Suitable for Applications in Mining, Mineral Processing and Material Handling Industries.



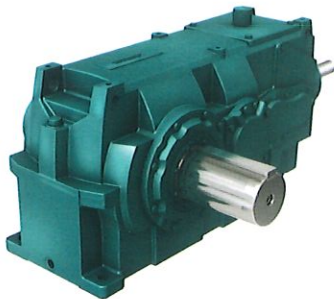
## Paramax® 9000 Series



The Paramax® 9000 is distinguished by its robust and versatile design. Both parallel and right-angle Paramax® offer reliability and long service life, even in tough operating conditions.

- Sizes:** 26 sizes
- Torque Rating:** 2,600 - 570,000 N.m
- Power Rating:** 5 to 5,000 HP (3.7 kW - 3,729 kW)
- Ratio Range:** 6.3:1 to 500:1
- Housing:** Cast Iron (Standard)  
Ductile & Fabricated Steel (Optional)  
Monoblock or Split Housing

## Hansen® P4



The performance of both parallel and right-angle Hansen P4 Multi Stage gear units is characterized by low noise and weight, extreme environmental tolerance and exceptional reliability.

- Sizes:** 19 sizes
- Torque Rating:** Up to 11,00 kN.m
- Power Rating:** 135 HP to 5,364 HP (100 kW - 4,000 kW)
- Ratio Range:** 6.3:1 to 630:1
- Housing:** Dedicated Vertical & Horizontal Housings  
Nodular (or ductile) & Cast Iron  
Split Housing

## Single Stage Gear Units



Single-stage gear units come in a parallel horizontal configuration, with shafts interchangeably sharing a horizontal or vertical plane.

- Sizes:** 8 sizes
- Torque Rating:** 133,000 N.m
- Power Rating:** 375 to 14,080 HP (280 kW - 10,500 kW)
- Ratio Range:** 1.25:1 to 5.6:1
- Housing:** Custom ratios within 1% of requested value  
Monoblock or Split Housing  
Horizontal or Vertical

## SEISA® Extra Large Conveyor Drives



SEISA® offers extra-large conveyor drives to meet your specifications. These custom gearboxes are available in parallel and right-angle shaft configurations. SEISA gearboxes utilize the rugged power of spiral bevel and helical gearing components.

- Sizes:** 5 standard sizes (other sizes available)
- Torque Rating:** 356,040 N.m and higher
- Power Rating:** standard 675 to 18,800 HP (500 kW - 14,029 kW)
- Ratio Range:** 8:1 to 90:1 (other ratios available)
- Housing:** Fabricated Steel-Horizontal Split

## SEISA® High Speed Drives



SEISA® high speed gear boxes are developed for optimum strength with low noise. They can be manufactured to special application-specific layouts. Standard options include turning device, lubrication/cooling units, vibration monitoring , etc.

- Sizes:** 14 standard sizes (other sizes available)
- Power Rating:** Up to 80,000kW
- Ratio Range:** Up to 11:1 (single stage)
- Housing:** Fabricated Steel-Horizontal Split

## SEISA® Planetary Drives



SEISA® Planetary drives are used in several mining and material handling applications. Available in standard as well as custom built sizes in horizontal or vertical mounting. Gears are designed to 25° pressure angle, precisely machined, carburised, hardened and ground.

- Sizes:** 26 standard sizes (other sizes available)
- Torque Rating:** 6930 kN.m and higher
- Ratio Range:** Available in 2, 3, 4, 5-Stage gearings
- Housing:** Fabricated Steel





# Compact and Reliable.

Choose Sumitomo for Reliable, Durable and Efficient Gearboxes with Long Life Cycles and Low Maintenance

Sumitomo's unique Cyclo® technology offers quiet, efficient and reliable operation with high torque density and compact size.

### Cycloidal "Gearless" Speed Reduction

Torque transmitting parts roll, rather than grind, providing quiet, efficient and reliable performance.

### Superior Materials

52100 bearing grade steel rotating components, hardened to 58 Rockwell C for unmatched durability and reliability.

### Long Life and High Shock Load Capacity

The Cyclo® input has two-thirds of its reduction components in contact at all times, resulting in exceptionally rugged, shock-resistant performance.

### Product Support

Sumitomo's Product Support offers scheduled repair services as a one-stop-shop for all your related gearbox needs. For emergency repairs, we offer a 24 to 72-hour turnaround. Please consult your representative for product eligibility.

## Cyclo® 6000 Series



Sumitomo's Cyclo® 6000 speed reducer and gearmotors provide quiet, efficient and reliable performance. With over 500% momentary shock load capacity, Cyclo® is ideal for any of your mining applications.

|                |                                                                                    |
|----------------|------------------------------------------------------------------------------------|
| Sizes:         | 23 sizes                                                                           |
| Torque Rating: | 6.2 - 68,130 N.m                                                                   |
| Power Rating:  | 1/10 to 235 HP<br>(0.1 kW - 175 kW)                                                |
| Ratio Range:   | 3:1 to 119:1 (single)<br>121:1 to 7,569:1 (double)<br>8041:1 to 658,503:1 (triple) |
| Housing:       | Cast Iron                                                                          |

## Cyclo® Bevel BuddyBox® 4 Series



The Cyclo® Bevel BuddyBox® (Cyclo® BBB) 4 Series combines the advantages of the Cyclo® drive with bevel gears to yield a high torque range in a right-angle shaft configuration. This yields an extremely robust design with high overload reserves.

|                |                                   |
|----------------|-----------------------------------|
| Sizes:         | 6 sizes                           |
| Torque Rating: | 225 - 13,400 N.m                  |
| Power Rating:  | 1/8 to 100 HP<br>(0.1 kW - 75 kW) |
| Ratio Range:   | 11:1 to 26,000 and greater        |
| Housing:       | Ductile Iron                      |



### Travel Drives

Travel Drive applications require multiple mounting configurations within a limited space. Paramax® 9000 Series, Hansen P4 Series, Cyclo® HBB, and Cyclo® BBB are also optimized for applications with limited space above the rail.

From stacker reclaimers to continuous barge loaders, our products are manufactured to fit your travel drive application.



### Bucket Elevators

Compact, torque-dense, and high-strength drives, the Paramax® 9000 and Hansen P4 Series are ideal for your bucket elevator requirements.

Accessories include integral heavy-duty backstop, and hollow low-speed shaft with a shrink disc for positive torque transmission.

For a total drive package, we can provide a hydraulic coupling, disc brakes and all components mounted to a fabricated steel swingbase.



### Sizer

Heavy-duty severe sizer or crusher applications require effective sizing and accessories to meet this demanding operation.

The Paramax® 9000 and Hansen P4 Series can be delivered in multiple housing materials, cast iron, ductile iron or fabricated steel.

With vast experience in developing motor adapter styles and driven shaft arrangements, we offer products to fit in your limited space constraints.

## Alignment-Free Drives

Our alignment-free drives are specifically designed for the mining industry and provide worry-free solution for conveyor, crusher, quarry or sizer applications.

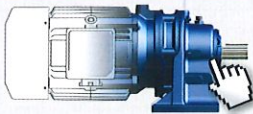
The housing design is robust and offers versatility for different mounting positions. Horizontal split housing, rigid adaptor and torque arms are key features while 'flippable housing' and other accessories are available as options.



Product Configurator: [www.sumitomodrive.com/Configurator](http://www.sumitomodrive.com/Configurator)

Sumitomo Drive Technologies' online product Configurator streamlines the selection process, enabling you to build our power transmission products for your specific application.

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# Surface and Underground Conveyors

Our Conveyor Drive Packages Offer Durability and Power for both Above- and Under- Ground Mining Applications.

Efficient and productive mining operations require conveyors and other equipment designed to meet ever-increasing demands.

We offer tough, reliable gear drives designed to withstand the severe shock loads and harsh environments of every mining application. These include:

- Belt Feeders
- Bucket Wheel Excavators
- Feeder Breakers
- Wire Rope / Cable Winches
- Screw Conveyors
- Driers
- Grinders
- Kilns
- Pulverizers
- Water Treatment
- Thickener
- Ball Mill
- SAG Mill
- Stacker Reclaimers

## Application Spotlight: Conveyors

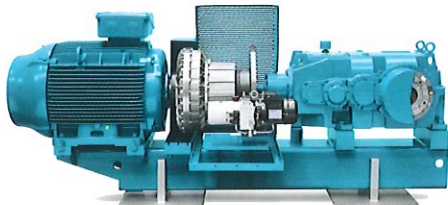
Conveyors come in a wide variety of configurations and specifications. Sumitomo has gearbox and gearmotor combinations suitable for most applications, whether it be shaft mounted, right-angle, high-speed or positional accuracy.

From the fractional power of Cyclo® BuddyBox® products, to the large Paramax® 9000, Seisa and Hansen P4 Series, we have a wide range of configurations and powers to meet your requirements.

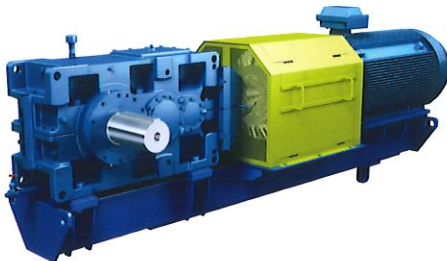
## Conveyor Drive Packages

Conveyor Drive Packages can be delivered with fabricated steel baseplate, swing base or motor adapter. Packages complete with couplings, brakes, flywheels and backstops can be integral or external to the gearbox.

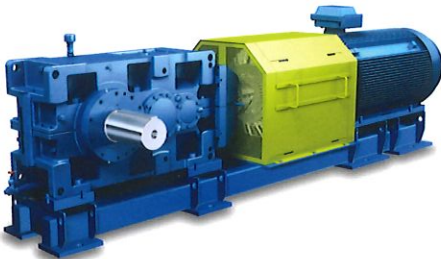
Low-speed connection to the pulley shaft by hollow bore with shrink disc or rigid coupling connection.



Hansen P4 - Alignment Free



Paramax® 9000 - Swingbase



Paramax® 9000 - Baseplate

## Cyclo® Helical BuddyBox®



Cyclo® Helical BuddyBox® (Cyclo® HBB) drives combine the advantages of the Cyclo® with helical gears to yield a high torque range in an offset parallel configuration.

|                |                                  |
|----------------|----------------------------------|
| Sizes:         | 6 sizes                          |
| Torque Rating: | 104 - 11,600 N.m                 |
| Power Rating:  | 1/4 to 40 HP<br>(0.2 kW - 30 kW) |
| Ratio Range:   | 11:1 to 26,000 and greater       |
| Housing:       | Cast Iron                        |

## Helical Shaft Mount (HSM)



Helical Shaft Mount (HSM) drives offer high performance. The helical gears feature carburized teeth at a 25-degree pressure angle and wide gearfaces, enabling high-efficiency torque output and maximum ratings for shaft-mount configurations.

|                |                                   |
|----------------|-----------------------------------|
| Sizes:         | AGMA 107 to 608                   |
| Torque Rating: | 440 - 44,000 N.m                  |
| Power Rating:  | 1/4 to 300 HP<br>(.2 kW - 225 kW) |
| Ratio Range:   | 5:1, 14:1, 20:1, 25:1             |
| Housing:       | Cast Iron                         |

## Inching and Creep Drive Capabilities



Both the Paramax® 9000 Series and the Hansen P4 Series offer options to incorporate an inching or creep drive designed to handle your full load operational needs.

Our standard Cyclo® or Cyclo® BBB products are mounted to the industrial gearbox to achieve slow operational speeds.

An overrunning clutch engages to achieve the slow speeds required for maintenance or inspection, and disengages for normal operating speeds.

Conveyors subject to harsh weather conditions with intermittent operation can benefit from using inching or creep drives.

Inching and creep drives are sized to maximize the performance of your driven equipment.





# Comprehensive Aftermarket Services

Our regional presence at major industrial cities in Asia-Pacific, (including Australia and India) is catered to your before-and-aftermarket services needs.



## We provide repairs, service parts, technical sales, and field service support.

We offer the most comprehensive support teams in the region for every aspect of the gear lifecycle, from installation to maintenance, diagnostics and repair.

### Retrofits and Custom-Built Units

Talk to us for retrofits or custom-built speed reducers of any kind.

We provide a competitive and comprehensive solution with quick delivery to minimise your downtime.

Our Engineering Service Centers in the region offer a wide range of services including and not limited to:

- Factory certified repair centres located throughout Asia Pacific.
- Application upgrades: Lube systems, sealing systems, etc.
- Expedited service
- 24 hour on-call service
- Field service
- Technical support and maintenance recommendations
- Dedicated resources for customer support:
  - Service parts
  - Repair services
- Improved reliability of existing drives
  - Reduced down-time
  - Reduced Maintenance costs
  - Repair Hansen, Sumitomo and other brands
- Maintenance seminars and surveys available upon request
  - Recommended service parts and service parts management
  - Recommended maintenance intervals
- Custom "drop-in" replacements

Sumitomo offers the toughest Gearmotors and Speed Reducers to meet the harsh demands of Mining & Material Handling Industries.

## The Mining and Material Handling Industries place heavy demands on power transmission drives.

Tough operating conditions, high shock loads, dirt, moisture, and acidic environments take a large toll on the equipment that keeps your operation moving.

Your power transmission drives must be tough, reliable, and efficient. Strength, power, and performance are not optional. For these reasons, you rely on Sumitomo Drive Technologies for your power transmission products.

Recognized as a global leader in power transmission knowledge and innovation, the un-matched strength of our product range, application experience, and global presence establishes Sumitomo as the premiere power transmission solution provider. With installations in more than 35 countries worldwide, Sumitomo products are the preferred choice by some of the largest companies in the mining industry. Whatever your mining application, we understand the unique challenges you face, and we have reliable, durable solutions that deliver the lowest possible lifecycle cost and the highest level of performance.





## Sumitomo Drive Technologies: Reliable Power Transmission and Control Solutions



Sumitomo Drive Technologies is the brand name for the Power Transmissions and Controls (PTC) Division of Sumitomo Heavy Industries Ltd.

With a history of over 80 years in the industry, Sumitomo Drive Technologies provides technology, solution, products and services related to power transmission and controls throughout the world.

We manufacture gearboxes and geared motors ranging from 6W to 60MW under three prominent brand names - "Sumitomo Drive Technologies", "Hansen" and "SEISA", providing solutions for an array of applications in industries including Mining, Mineral Processing, Bulk Material Handling, Conveying, Cement, Steel and Metals, Agriculture, Fertilizers, Chemicals, Rubber, Food and Beverages, Automobiles, Electronics, Packaging and many more.

Our twelve (12) manufacturing facilities are complemented by thirty-five (35) stock, assembly, engineering and service centers across the globe. From North and South America to Europe, Africa, Middle East, North Asia, South East Asia to Australia and New Zealand; we are guided by our philosophy to be closer to our customers in order to provide better service and quicker deliveries.

Sumitomo Drive Technologies offers products and services from three highly experienced companies as one Industrial Power Transmission Solutions provider to our valued customers.

The integration of three companies -Sumitomo, SEISA and Hansen - each having leadership in different sectors of the industry, is part of our comprehensive strategy to strengthen the brand portfolio and creating our group's profile as the leading industrial power transmission solutions provider in the world. Together, our companies offer the highest quality, innovative products and services for any power transmission needs.

 **Sumitomo Heavy Industries, Ltd.**

**SEISA**  **Hansen®**  
industrial gearboxes



## What our customers say?

"The challenge of designing and installing an elevated conveyor system in such a long tunnel was demanding but our design has proved completely successful. Of course, in the industries that we serve, reliability is all-important, that's why we chose Sumitomo for this application."

### - Conveyor Systems for Mining

"The decision to use Sumitomo gearboxes was fairly easy. They offer extreme durability and reliability, which are vitally important as in our operations - we are one of the five busiest quarries in the UK - we cannot afford breakdowns. Over the last few years, Sumitomo has become our preferred supplier of gearboxes: we already had a number of Sumitomo gearboxes in New Cliffe Hill quarry and have found the performance and backup to be exceptional. We also benefit from commonality of spares and the fact that Sumitomo holds larger spares locally; however, we have had no requirement to call on them as yet."

### - Quarry, United Kingdom

Sumitomo Paramax industrial reducers drive the underground conveyors at one of the largest and oldest soda ash facilities in North America. The facility, an underground trona mine and a surface refining plant that processes the ore into soda ash, operates around the clock, 365 days a year. The company mines more than 4.5 million tons-per-year of trona ore. When the company sought to replace their

current reducers, Sumitomo offered Paramax, their premier industrial gearbox. The product's compact size, parts availability, worldwide support, and continued success of the Paramax units for nearly a decade has lead this company to specify only Sumitomo reducers for their future conveyor systems.

### - Soda Ash Facility, North America

We like working with Sumitomo very much and have a lot of faith in their gearboxes.

### - Global Mineral Processing Equipment Manufacturer



# Compact and Reliable.

Choose Sumitomo for Reliable, Durable and Efficient Gearboxes with Long Life Cycles and Low Maintenance

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Torque transmitting parts roll, rather than grind, providing quiet, efficient and reliable performance.

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The Cyclo® input has two-thirds of its reduction components in contact at all times, resulting in exceptionally rugged, shock-resistant performance.

**Product Support**

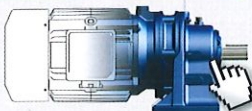
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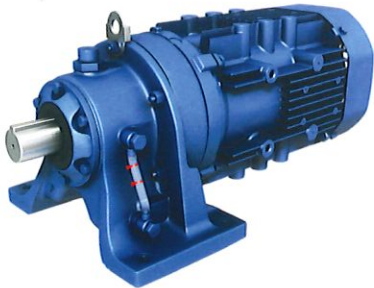
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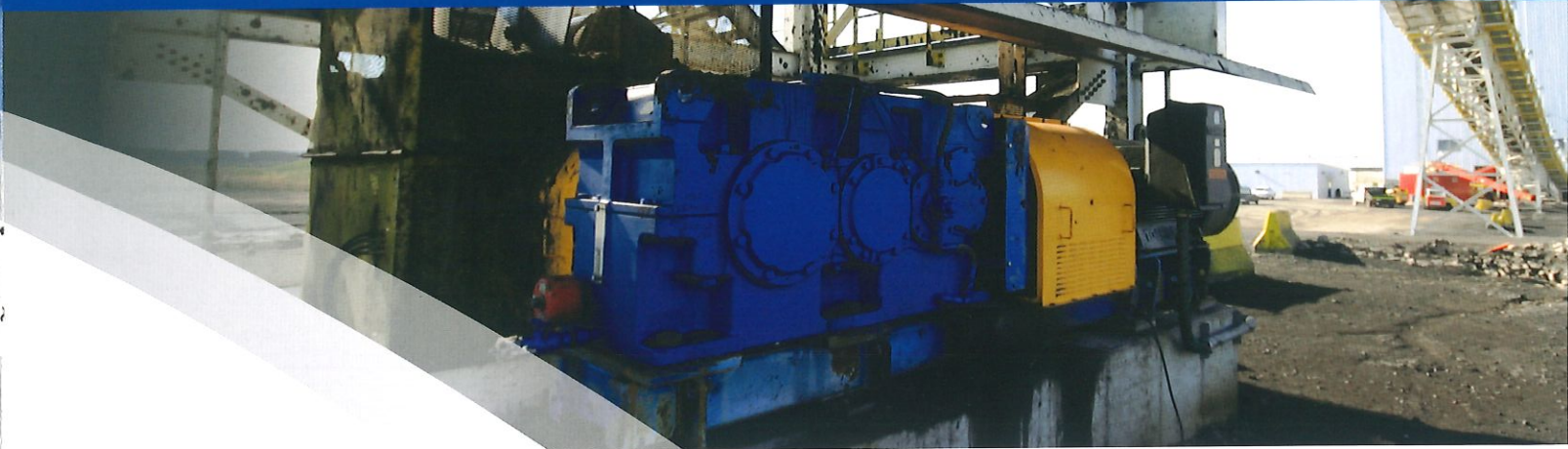
|                       |                                                                                    |
|-----------------------|------------------------------------------------------------------------------------|
| <b>Sizes:</b>         | 23 sizes                                                                           |
| <b>Torque Rating:</b> | 6.2 - 68,130 N.m                                                                   |
| <b>Power Rating:</b>  | 1/10 to 235 HP<br>(0.1 kW - 175 kW)                                                |
| <b>Ratio Range:</b>   | 3:1 to 119:1 (single)<br>121:1 to 7,569:1 (double)<br>8041:1 to 658,503:1 (triple) |
| <b>Housing:</b>       | Cast Iron                                                                          |

**Cyclo® Bevel BuddyBox® 4 Series**



The Cyclo® Bevel BuddyBox® (Cyclo® BBB) 4 Series combines the advantages of the Cyclo® drive with bevel gears to yield a high torque range in a right-angle shaft configuration. This yields an extremely robust design with high overload reserves.

|                       |                                   |
|-----------------------|-----------------------------------|
| <b>Sizes:</b>         | 6 sizes                           |
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**Travel Drives**

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Our alignment-free drives are specifically designed for the mining industry and provide worry-free solution for conveyor, crusher, quarry or sizer applications. The housing design is robust and offers versatility for different mounting positions. Horizontal split housing, rigid adaptor and torque arms are key features while 'flippable housing' and other accessories are available as options.





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- Thickener
- Ball Mill
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## Application Spotlight: Conveyors

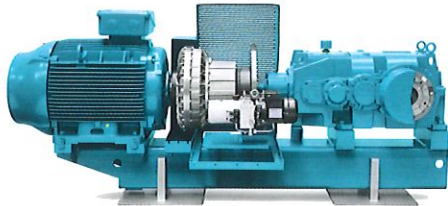
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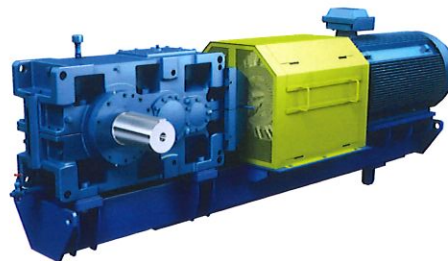
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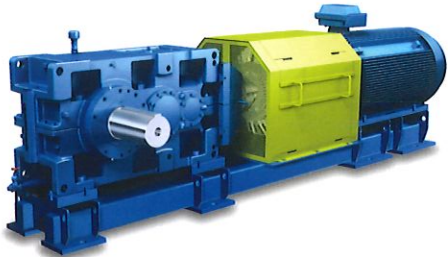
Low-speed connection to the pulley shaft by hollow bore with shrink disc or rigid coupling connection.



Hansen P4 - Alignment Free



Paramax® 9000 - Swingbase



Paramax® 9000 - Baseplate

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|                |                                  |
|----------------|----------------------------------|
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We manufacture gearboxes and geared motors ranging from 6W to 60MW under three prominent brand names - "Sumitomo Drive Technologies", "Hansen" and "SEISA", providing solutions for an array of applications in industries including Mining, Mineral Processing, Bulk Material Handling, Conveying, Cement, Steel and Metals, Agriculture, Fertilizers, Chemicals, Rubber, Food and Beverages, Automobiles, Electronics, Packaging and many more.

Our twelve (12) manufacturing facilities are complemented by thirty-five (35) stock, assembly, engineering and service centers across the globe. From North and South America to Europe, Africa, Middle East, North Asia, South East Asia to Australia and New Zealand; we are guided by our philosophy to be closer to our customers in order to provide better service and quicker deliveries.

Sumitomo Drive Technologies offers products and services from three highly experienced companies as one Industrial Power Transmission Solutions provider to our valued customers.

The integration of three companies -Sumitomo, SEISA and Hansen - each having leadership in different sectors of the industry, is part of our comprehensive strategy to strengthen the brand portfolio and creating our group's profile as the leading industrial power transmission solutions provider in the world. Together, our companies offer the highest quality, innovative products and services for any power transmission needs.

 **Sumitomo Heavy Industries, Ltd.**

**SEISA** 



## What our customers say?

"The challenge of designing and installing an elevated conveyor system in such a long tunnel was demanding but our design has proved completely successful. Of course, in the industries that we serve, reliability is all-important, that's why we chose Sumitomo for this application."

### - Conveyor Systems for Mining

"The decision to use Sumitomo gearboxes was fairly easy. They offer extreme durability and reliability, which are vitally important as in our operations – we are one of the five busiest quarries in the UK - we cannot afford breakdowns. Over the last few years, Sumitomo has become our preferred supplier of gearboxes: we already had a number of Sumitomo gearboxes in New Cliffe Hill quarry and have found the performance and backup to be exceptional. We also benefit from commonality of spares and the fact that Sumitomo holds larger spares locally; however, we have had no requirement to call on them as yet."

### -Quarry, United Kingdom

Sumitomo Paramax industrial reducers drive the underground conveyors at one of the largest and oldest soda ash facilities in North America. The facility, an underground trona mine and a surface refining plant that processes the ore into soda ash, operates around the clock, 365 days a year. The company mines more than 4.5 million tons-per-year of trona ore. When the company sought to replace their

current reducers, Sumitomo offered Paramax, their premier industrial gearbox. The product's compact size, parts availability, worldwide support, and continued success of the Paramax units for nearly a decade has lead this company to specify only Sumitomo

reducers for their future conveyor systems.

### - Soda Ash Facility, North America

We like working with Sumitomo very much and have a lot of faith in their gearboxes.

### -Global Mineral Processing Equipment Manufacturer