

Sumitomo Drive Technologies

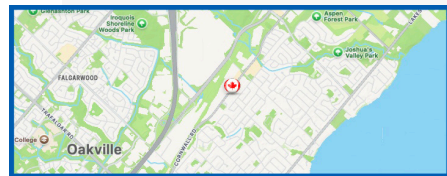
A global power transmission solutions provider, with facilities strategically located throughout the world, providing comprehensive products and services in your region.

Sumitomo Drive Technologies

PRODUCT SHOWCASE

A COMPREHENSIVE LINEUP OF OUR POWER TRANSMISSION SOLUTIONS

HEADQUARTERS



1453 Cornwall Road,
Oakville, ON L6J 7T5

Email: SMC.CustomerService@shi-g.com
Phone: 1-844-SM-CYCLO (762-9256)

- ★ MANUFACTURING HUB & HEADQUARTERS
- ★ MANUFACTURING HUB
- ASSEMBLY & SERVICE
- SERVICE
- ▲ REGIONAL SALES OFFICE



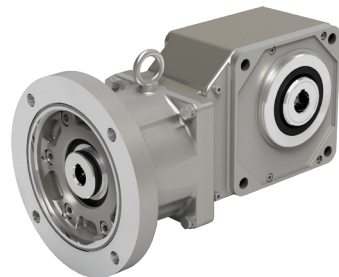
We offer a comprehensive lineup of high quality power transmission products.

For any of your power transmission needs, we have the right product for you.



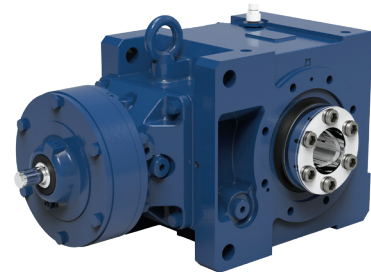
■ CYCLO® 6000

- Up to **235 HP** (175 kW)
- **1/2in to 7in** (Solid Shaft)
- Up to **603,000 lb-in** (68,130 N·m)
- **3:1** up to **658,503:1**



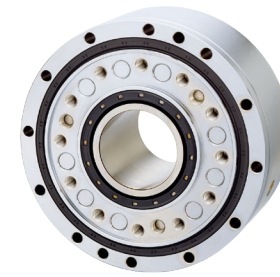
■ HYPONIC®

- Up to **15 HP** (11 kW)
- **3/4in to 2in** (Hollow & Solid)
- Up to **13,100 lb-in** (1,480 N·m)
- **5:1** up to **1,440:1**



■ CYCLO® BBB 4

- Up to **100 HP** (75 kW)
- **1in to 4-15/16in** (Hollow & Solid)
- Up to **159,983 lb-in** (18,076 N·m)
- **11:1** up to **26,000:1** and greater



■ MOTION CONTROL

- **Zero** mechanical backlash
- Up to **138mm** (Hollow Bore)
- Up to **265,522 lb-in** (30,000 N·m)
- **29:1** up to **283:1**



■ CYCLO® HBB

- Up to **40 HP** (30 kW)
- **1-3/16in to 6-1/2in** (Hollow Bore)
- Up to **75,800 lb-in** (8,564 N·m)
- **11:1** up to **26,492:1**



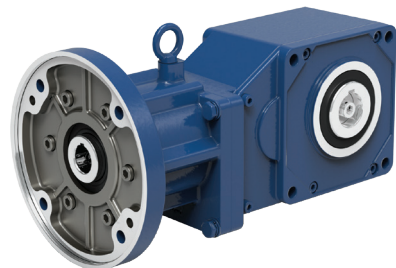
■ HELICAL SHAFT MOUNT

- Up to **300 HP** (224 kW)
- **107 to 608** (Hollow Bore)
- Up to **388,884 lb-in** (43,938 N·m)
- **5:1, 14:1, 25:1**



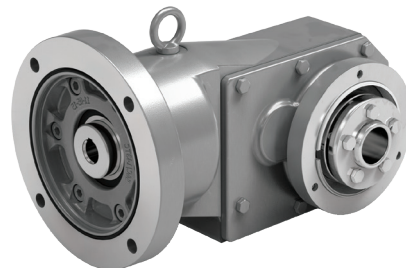
■ INVERTERS

- Up to **400 HP / 480 A**
- **200 to 600V** (Single & 3-Phase)
- Up to **200%** (From Zero Speed)
- Up to **200% Overload** (4 secs)



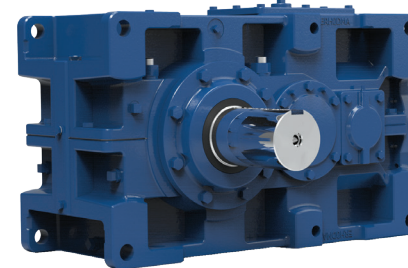
■ BBB-H

- Up to **15 HP** (11 kW)
- **1in to 2-3/16in** (Hollow)
- Up to **9,028 lb-in** (1,020 N·m)
- **5:1** up to **20:1**



■ FORTRESS®

- Up to **2 HP** (1.72 kW)
- **3/4in to 1-7/16in** (Hollow & Solid)
- Up to **2,190 lb-in** (247 N·m)
- **7:1** up to **60:1**



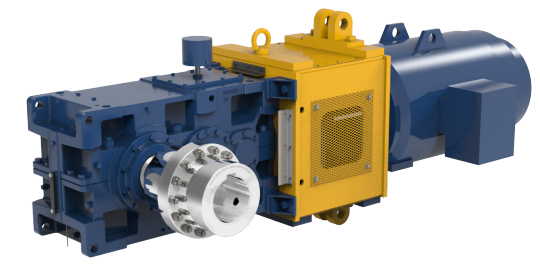
■ PARAMAX® 9000

- Up to **5,230 HP** (3,900 kW)
- **58mm to 360mm** (Hollow & Solid)
- Up to **4.9m lb-in** (552,000 N·m)
- Up to **500:1** Standard



■ HANSEN P4

- Up to **14,080 HP** (10,500 kW)
- **3.15in to 15.75in** (Solid Shaft)
- Up to **9.7m lb-in** (1.1m N·m)
- Up to **630:1** (and custom ratios)



■ PARAMAX® UNIMINER

- Up to **1,250 MHP**
- **95mm to 200mm** (Solid)
- Up to **1,080,000 lb-in** (122 kNm)
- **6.3:1 to 90:1**

-
- SEALS**
Wear sleeves and pressure-rated to prevent leaks.
- HOUSING**
Rugged, shock-resistant cast iron housing.
Optional ductile iron housing also available.
- RING GEAR HOUSING**
High power density with all reduction integrated into the compact ring gear housing.
- CYCLO® DISC**
All rotating components are fully hardened, vacuum degassed bearing-grade steel, for consistent, reliable performance.
- FAN**
- FAN COVER**
- HIGH-SPEED SHAFT**
- OIL LEVEL INDICATOR**
- SLOW-SPEED SHAFT**
- ECCENTRIC CAM**
- 500% MOMENTARY SHOCK LOAD**
The Cyclo® design spreads the load across 2/3 of the reduction components, enabling the units to absorb and dissipate shocks better than typical concentric drives.
- MOBIL SHC™ GEAR HI-SHOCK 150**
- High-Performance Synthetic Lubricant
 - Available for Cyclo® Products
 - Extends the Life up to 3 Times
 - Available 4-Year Warranty
- iPK₆₉***
* Rating applies to specific products.
- ## CYCLO® 6000
- ### UNMATCHED RELIABILITY & EXCEPTIONAL PERFORMANCE
- Cyclo® speed reducers and gearmotors are the **premier in-line drives**. The revolutionary Cyclo® design provides **quiet, efficient, and reliable** performance exceeding that of involute tooth gear designs.
- Unlike geared designs, the Cyclo®'s reduction components operate in compression rather than shear, which results in exceptionally rugged and **shock-resistant performance**.
- The Cyclo® technology coupled with **innovative product options and accessories** offer the most extensive range of application solutions available.

UNMATCHED RELIABILITY & EXCEPTIONAL PERFORMANCE

Cyclo® speed reducers and gearmotors are the **premier in-line drives**. The revolutionary Cyclo® design provides **quiet, efficient, and reliable** performance exceeding that of involute tooth gear designs.

Unlike geared designs, the Cyclo®'s reduction components operate in compression rather than shear, which results in exceptionally rugged and **shock-resistant performance.**

The Cyclo® technology coupled with **innovative product options and accessories** offer the most extensive range of application solutions available.

- OPTIONS**

 - Overhead Drive
 - Extended Base
 - Industry Packages

SPECS

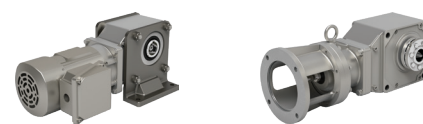
 - HP RATING**
Up to 235 HP (175 kW)
 - DIAMETER**
1/2in to 7in (Solid Shaft)
 - TORQUE**
Up to 603,000 lb•in (68,130 N•m)
 - RATIO RANGE**
3:1 up to 658,503:1

• Foot Mount • Shaft Mount • Flange



MOUNTING

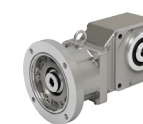
• Plug-In-Shaft • Shrink Disc



• Keyed Hollow Bore



• Quill



• Coupled C-Face



• Integral Motor



INPUTS & OUTPUTS

QUALITY HOUSING

Aluminum housing is lighter and increases thermal rating.

SEALS

Multiple lip, harsh duty, and food-grade designs available to prevent leaks.

DUAL-BEARING SUPPORT

HYPONIC®

REQUIRES NO OIL CHANGES AND UP TO 93% EFFICIENT

The Sumitomo Drive Technologies Hyponic® gearing represents **hypoid gearing excellence**. With millions of Hyponic® units currently in service, the product features a compact, modular housing, maintenance-free grease lubrication and boasts a **gear efficiency of up to 93%** across all ratios.

The **maintenance-free** grease lubrication enables the unit to be mounted in any orientation without custom modifications. In addition to general-purpose solutions, with multiple food grade options, Hyponic® is perfect for **harsh, high-pressure wash-down environments**.

OPTIONS



Stainless Steel Motor



SHIELD360® Protection



EasyGrip™

SPECS



HP RATING
Up to 15 HP
(11 kW)



DIAMETER
3/4in to 2in



TORQUE
Up to 13,100 lb·in
(1,480 N·m)



RATIO RANGE
5:1 up to 1,440:1

ALL-STEEL HYPOID GEARING

Patented Hyponic® all-steel hypoid gears provide up to 93% efficiency across all ratios, ensuring quiet, smooth performance without requiring a cooling fan.

HYPOID PINION

The single-piece all-steel hypoidal pinion lasts millions of cycles without measurable wear.

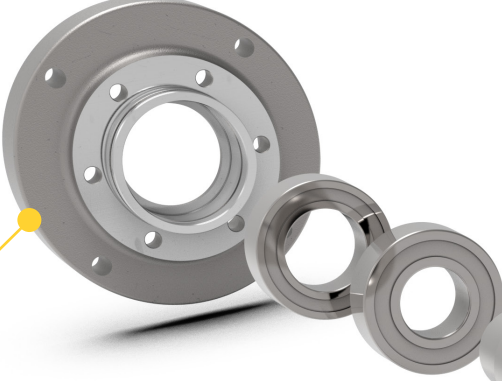
DUAL-BEARING SUPPORT

QUILL O-RING

Prevents water intrusion.

C-FACE QUILL

Supported by two bearings for long life, the quill style motor adapter allows for maximum motor flexibility.



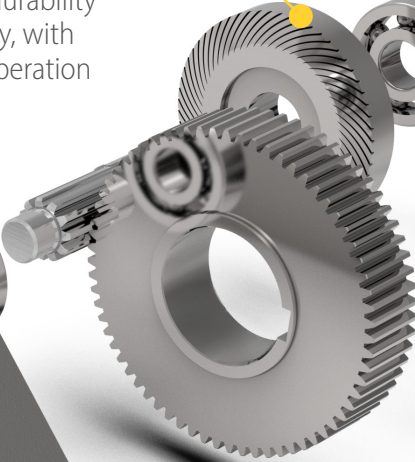
NEMA QUILL C-FACE
The quill style motor adapter allows for maximum motor flexibility. Supports NEMA 56C, 143TC, and 145TC.



HYPOID PINION
The single-piece all-steel hypoidal pinion lasts millions of cycles without measurable wear.



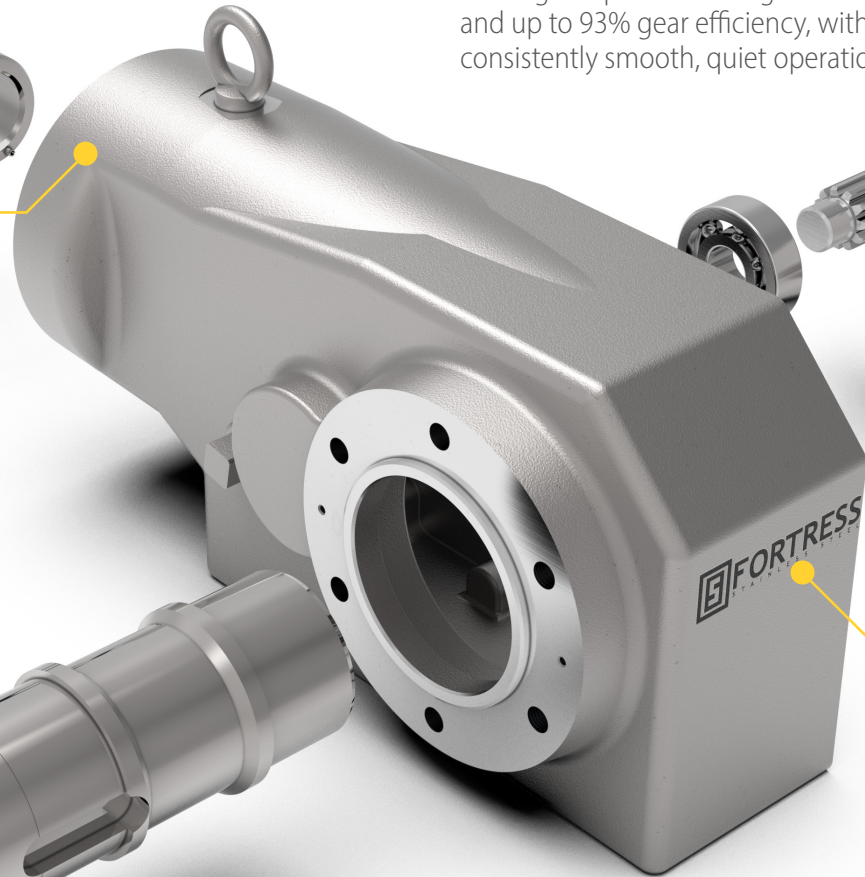
COVER PLATE
Precision machined internal surface with seal groove to enhance the maintenance-free sealed-for-life unit.



ALL-STEEL HYPOIDAL GEARS
These gears provide lasting durability and up to 93% gear efficiency, with consistently smooth, quiet operation



RDH SEAL
Antimicrobial FKM High Pressure seal.

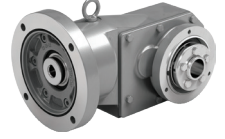


CONTOURED HOUSING
Its unique design reduces the build-up of bacteria in those hard to reach areas.



FORTRESS®
STAINLESS STEEL

OPTIONS



• Shrink Disc

INDUSTRIES

 Produce
  Meat
  Pharmaceutical
  Seafood

HIGHLY EFFICIENT, GREASE-LUBRICATED COMPACT DESIGN

With over **25 years of hypoid gearing excellence**, we are experts in efficiency. Fortress® features a compact, modular housing, food grade grease lubrication, and boasts up to **93% gear efficiency**. The IP69K rating also means that it's perfect for harsh, high-pressure wash-down environments.

The **maintenance-free** grease lubrication enables the unit to be mounted in any orientation without custom modifications. Additionally, take advantage of our **flange, foot-mount, and torque arm** options which drop right in, allowing you to conveniently replace those old, inefficient gearboxes.



PERFECT FOR CAUSTIC ENVIRONMENTS

With our all-new Fortress® gearbox, **never worry about paint chips contaminating your operation again**. The cast 304 stainless steel housing offers resistance to the most caustic environments and the **unique contour design** reduces the build-up of bacteria in those hard to reach areas.

Our cutting-edge **in-house laser etching** technology ensures a cleaner finish by eliminating the need for an attached nameplate. This, coupled with our patented **hypoid gear technology**, means you have a cooler operating, more efficient, cleaner, and maintenance-free operation.

SPECS



HP RATING
1/2 HP to 2 HP
(1.72 kW)



DIAMETER
3/4in to 1-7/16in

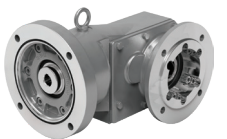


TORQUE
Up to 2,190 lb•in
(247 N•m)



RATIO RANGE
7:1 up to 60:1

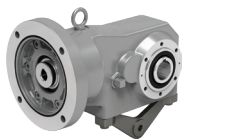
MOUNTING



• Flange Mount



• Foot Mount



• Shaft Mount

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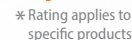
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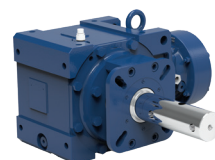
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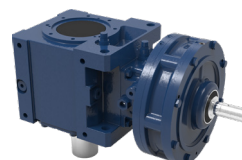
A blue industrial motor with a silver gear assembly and a black spring. The motor is shown in a disassembled state, with the gear assembly and spring removed from the main body. The motor has a blue cast metal housing with various mounting points and a silver-colored internal gear assembly. A black spring is attached to the gear assembly. The background is white with yellow and black decorative elements.



Built to handle 300% momentary shock loads, the oversized, single-piece pinion delivers maximum strength and reliability. Proudly designed and manufactured in the USA.



Screw Conveyor



Mixer



H



D



T



RA

• Flange Mount

• Shaft Mount

MOUNTING

LONG-LIFE BEARINGS

Oversized, heavy-duty bearings for maximum strength and service life.

MOBIL SHC™ GEAR HI-SHOCK 150

- High-Performance Synthetic Lubricant
- Available for Cyclo® Products
- Extends the Life up to 3 Times
- Available 4-Year Warranty

HELICAL GEARING

Hardened-steel gearing.

MONOBLOC HOUSING

Cast iron housing is strong, corrosion resistant, and sound dampening. Monobloc design eliminates leaks at housing split.

CYCLOIDAL TECHNOLOGY

Utilizes all Cyclo® input modifications to produce high ratios in amazingly small spaces.

• Keyed Hollow Bore

• Taper-Grip® Bushing

• Gearmotor

• Quill

• C-Face

INPUTS & OUTPUTS

CYCLO® HELICAL BUDDYBOX®

INNOVATIVE SHAFT MOUNTED DRIVE SOLUTIONS FOR DEMANDING APPLICATIONS

The Cyclo® HBB combines the **quiet, efficient, and reliable** performance of the Cyclo® input with the **rugged helical gear output**. The modular design provides a **compact, efficient** product and the most flexible range of output speed and torque combinations available.

The **simple splash lubrication system** extends the units life, while the highly efficient design allows the thermal rating to far exceed its mechanical capacity, eliminating conventional heat-related limitations.

DOUBLE OUTPUT SEALS

TAPER-GRIP BUSHING®

Our patented Taper-Grip® bushing system offers simple shaft mounting and provides self-aligning, backlash-free torque transmission to the driven shaft.

HIGH-SPEED SHAFT

OPTIONS



CEMA Screw
Conveyor Drive

SPECS



HP RATING
Up to 40 HP
(30 kW)



DIAMETER
1-3/16in to 6-1/2in
(Hollow Bore)



TORQUE
Up to 75,800 lb•in
(8,564 N•m)



RATIO RANGE
11:1 up to 26,492:1

• **Shaft Mount**

• **Flange Mount**

• **MOUNTING**

• **EasyGrip™**

• **Shrink Disc**

• **Keyed Hollow Bore**

• **Gearmotor**

• **Quill**

• **C-Face**

• **INPUTS & OUTPUTS**

ALUMINUM HOUSING

Aluminum housing is lighter and increases thermal capacity.

HARDENED STEEL GEARING

BEVEL PINION & HELICAL GEARING

Delivers a powerful blend of torque and speed with up to 97% gear efficiency. Smooth, quiet performance without the need for a cooling fan.

BEVEL PINION

The single-piece all-steel bevel pinion lasts millions of cycles without measurable wear.

SEALS

Multiple lip, harsh duty, and food-grade designs available to prevent leaks.

■ BEVEL BUDDYBOX® H SERIES

EXTREMELY EFFICIENT AND COMPACT WITH LOW REDUCTION RATIOS

The combination of a **Bevel Input** and a **Helical Output** make this unit **extremely** efficient with the capacity for input speeds up to 3,600 rpm. Dependable **hardened-steel gearing** inside a lightweight, compact housing allows for **easy installation** with less load on the head shaft. Aluminum construction provides **high thermal capacity**.

The **maintenance-free grease** lubrication enables the unit to be mounted in any orientation without custom modifications. The **greater efficiency** of the BBB-H allows for use of a **smaller motor**, resulting in the same performance with **much lower** operating costs. Its power and speed make this unit **perfect** for airport baggage handling and general conveying applications.

C-FACE QUILL

Supported by two bearings for a long operational life, the quill-style motor adapter allows for maximum motor flexibility.

• **OPTIONS**



C-Face Motors



SHIELD360® Protection

• **SPECS**



HP RATING
Up to 15 HP
(11 kW)



DIAMETER
1in to 2-3/16in
(Hollow Bore)



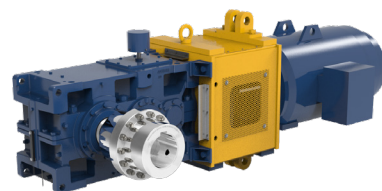
TORQUE
Up to 9,028 lb•in
(1,020 N•m)



RATIO RANGE
5:1 up to 20:1

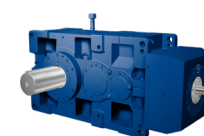
Paramax® UniMiner

Flippable housing and horizontal split line make the ideal alignment-free drive package for mining.

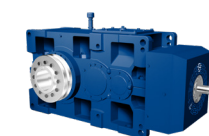


SPECIAL DRIVE CONFIGURATION

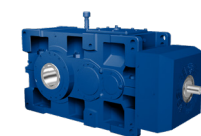
• Solid Shaft



• Shrink Disc



• Keyed Hollow Bore



OUTPUTS

SPLIT HOUSING

Standard in large frame sizes to allow easy maintenance. A large inspection port provides a window for gear inspection. Available in standard gray cast iron with ductile and fabricated steel options.

TACONITE SEAL

3-part oil seal includes two double-lipped seals and a rechargeable grease chamber positioned between them to absorb contaminants. Abrasive particulates are purged using fresh grease. Supplied with NBR (Nitrile) as standard; optional FKM (Viton®) available.

SLOW SPEED SHAFT

JIS SCM440H or AISI 4140H material or equivalent, interfering/fitted keys, and interference fit gears. Suitable for stop/starts and reversing applications.

CASE-CARBURIZED & GROUND GEARING

High-precision carburized gearing with a 25° pressure angle offers a thicker dedendum and higher strength ratings than the typical 20° pressure angle.

HIGH-TENSILE SHAFT

Strong shaft material optimized for extended operation in rugged environments.

PARAMAX® 9000

PARALLEL & RIGHT ANGLE LARGE INDUSTRIAL GEARBOXES

Paramax® parallel and right angle drives are some of the **largest and most durable** power transmission systems operating in the world. The series features **double, triple, quadruple reduction** gearboxes, global standardization and availability, and support from our worldwide facilities.

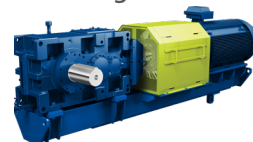
Optional Accessories: Backstops, motor mount options, seal upgrades, heating & cooling and lubrication solutions, paint upgrades, storage and packaging options, and complete drive package solutions.

TIER 1 SUPPLIER ROLLER BEARINGS

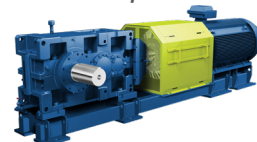
High-capacity bearings increase load handling without extending lead times. Depending on size and configuration, units are equipped with tapered, double-row spherical, or cylindrical roller bearings.

DRIVE PACKAGE

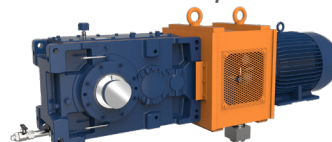
Swing Base



Baseplate



Motor Adapter



SPECS



HP RATING
Up to 5,230 HP
(3,900 kW)



DIAMETER
58mm to 360mm
(Hollow & Solid)



TORQUE
Up to 4.9 million lb•in
(552 kN•m)



RATIO RANGE
Up to 500:1
Standard

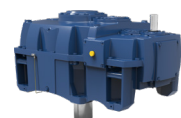
• **Keyed Hollow Bore**



• **Extended Bearing Housing**



• **Oversized Solid Shaft**



• **Normal Solid Shaft**



**MIXER
OPTIONS**

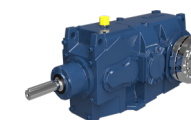
• **Extended Bearing**



• **Pilot or Flange Mount**



• **Hollow Shaft**



OUTPUTS

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 high-speed 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.

LUBRICATION

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

VARIATIONS

Vertical



Horizontal



Single-Stage



SPECS



HP RATING
Up to 14,080 HP
(10,500 kW)



DIAMETER
80mm to 400mm
(Solid, Heavy-Duty,
and Hollow)



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



RATIO RANGE
Up to 630:1 (Custom
ratios available)

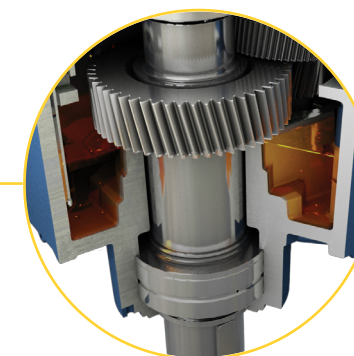
HANSEN P4

REMARKABLE POWER AND PERFORMANCE WITH LOW NOISE

The Hansen P4 multi-stage gearbox 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 directly into 3- and 4-stage vertical housings, this integrated drywell provides a truly leak-proof, low-speed shaft solution.

HIGH-SPEED SHAFT

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

MAINTENANCE-FREE OIL-LOCK®

Standard high-speed seal arrangement.



E-CYCLO®
Strain Wave

• A-Series



• C-Series



• UA-Series



• DA-Series



FINE CYCLO®
Cycloidal



Servo Hyponic®

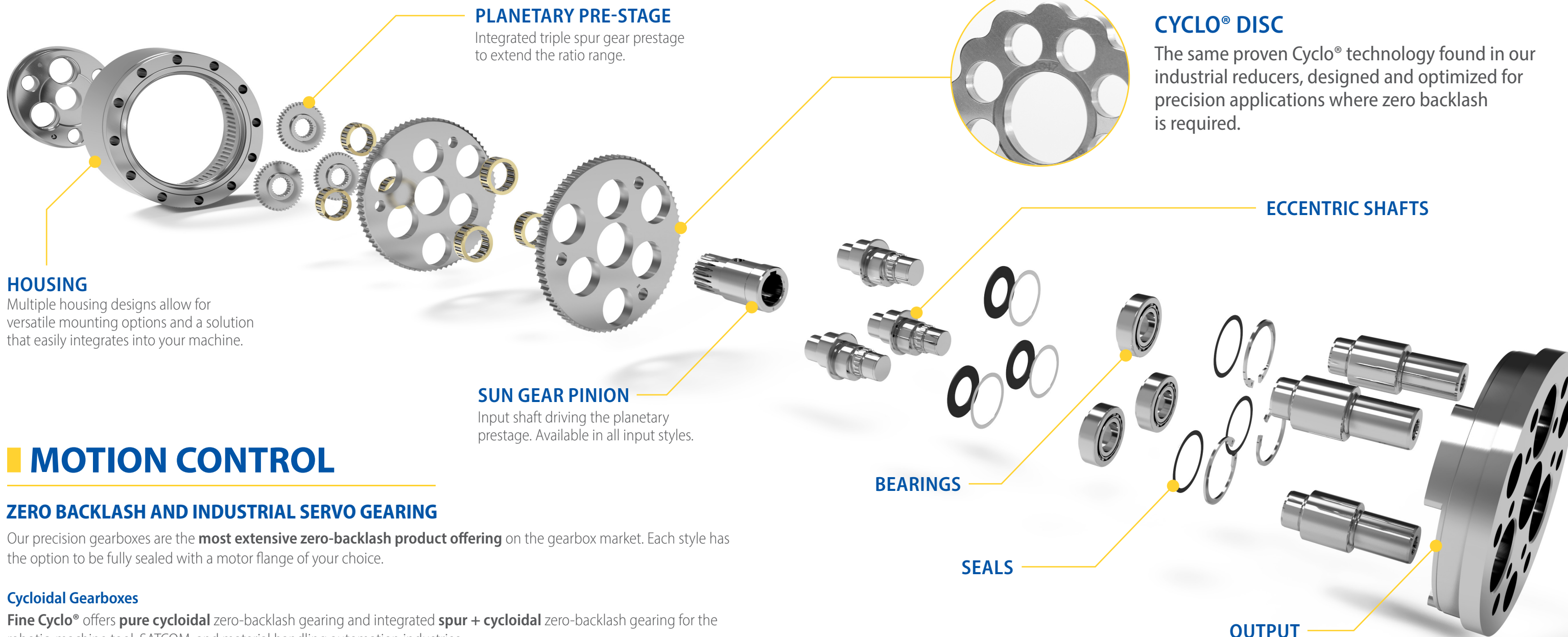
Servo Bevel BuddyBox®



Servo Cyclo®



SERVO
GEARBOXES



HOUSING

Multiple housing designs allow for versatile mounting options and a solution that easily integrates into your machine.

PLANETARY PRE-STAGE

Integrated triple spur gear prestage to extend the ratio range.

SUN GEAR PINION

Input shaft driving the planetary prestage. Available in all input styles.

BEARINGS

SEALS

ECCENTRIC SHAFTS

CYCLO® DISC

The same proven Cyclo® technology found in our industrial reducers, designed and optimized for precision applications where zero backlash is required.

OUTPUT

MOTION CONTROL

ZERO BACKLASH AND INDUSTRIAL SERVO GEARING

Our precision gearboxes are the **most extensive zero-backlash product offering** on the gearbox market. Each style has the option to be fully sealed with a motor flange of your choice.

Cycloidal Gearboxes

Fine Cyclo® offers **pure cycloidal** zero-backlash gearing and integrated **spur + cycloidal** zero-backlash gearing for the robotic, machine tool, SATCOM, and material handling automation industries.

Strain Wave Gearboxes

The **E-Cyclo®** blends strain wave reduction and cycloidal engagement technologies to provide zero-backlash performance with **exceptionally high torsion** and **low moments of inertia**.

Advanced Servo Gearboxes

The **sturdiness** and **reliability** of our premium industrial gearboxes **modified** for inclusion into **servo systems**.

SERVORUN SIZING SOFTWARE

As part of our support in the design phase of new applications, our sizing software Servorun verifies the gearbox selection as well as motor suitability.

SPECS



NOM TORQUE
Up to 12,000 N·m
(106,209 lb·in)



DIAMETER
Up to 138 mm
(Hollow Bore)



ACCEL TORQUE
Up to 30,000 N·m
(265,522 lb·in)



RATIO RANGE
29:1 to 283:1



INPUT SPEED
Up to 10,260 RPM

OPTIDRIVE E3

GENERAL PURPOSE DRIVE

Compact, robust, and reliable general purpose drive.

Focused on ease of use, Optidrive E3 provides **unrivalled 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 tough 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).



Compliant with international standards.

• IP20



• IP66



Non-Switched

• IP66



Switched

• IP20



• IP55



• IP66



ENCLOSURES

• 150% Overload for 60 Seconds

• 175% Overload for 2.5 Seconds

• 98% Efficiency

FAST CONNECTION

5mm rising clamp terminals with captive screws.

KEYHOLE MOUNTS

QUICK REFERENCE

Integrated help card.

OPTISTICK SMART

This rapid Commissioning Tool allows copying, backup, and the restoring of drive parameters.



DUAL ANALOG INPUTS



INTEGRATED DISPLAY

Remote keypads provide real time operating information display and parameter access.

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.

A **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 make it perfect for marine and elevator applications.

SPECS



HP RATING
Up to 400 HP
(250 kW)



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



TORQUE
Up to 200%
(From Zero Speed)

• 200% Overload for 4 Seconds

• 98% Efficiency

• Integral Brake Transistor

Tailored gearbox solutions for every industrial need.

Industrial motor options built to drive operational success.

■ HELICAL SHAFT MOUNT

Provides a **simple** and **convenient** equipment interface by mounting **directly** on the drive shaft. Uses our patented Taper-Grip® Bushing for **quick** reducer mounting and **removal**.

Torque: Up to 388,884 lb•in
(43,938 N•m)

Ratio: 5:1, 14:1, 25:1

HP: Up to 300 HP (224 kW)



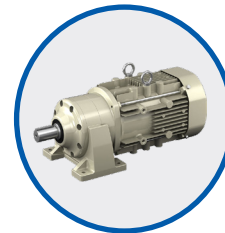
■ ALTAX®

Using our **Cyclo® technology**, the exceptionally robust Altax® line is **compact** and **low noise**. All models are **maintenance-free** with grease lubrication. Altax® caters to a broad range of applications.

Torque: Up to 4,054 lb•in
(458 N•m)

Ratio: Up to 1,003:1

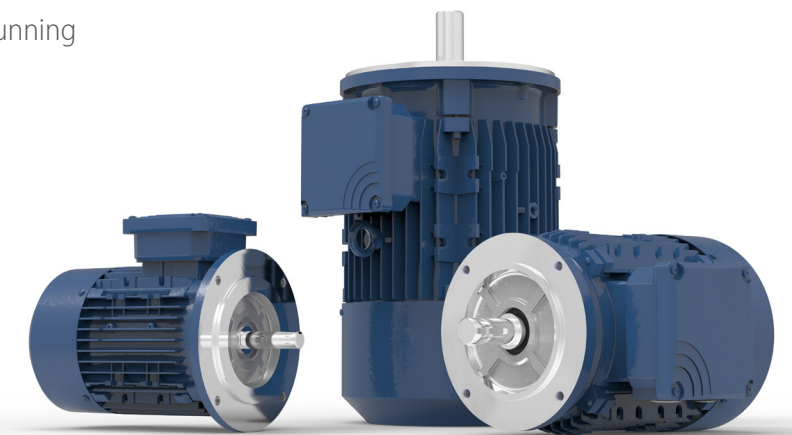
HP: Up to 5 HP (3.7 kW)



■ MOTORS

EPNA motors are **high** performance, exceptionally **cool** running **long-lived** motors with **corona-resistant** insulation.

- UL, CSA, DOE Compliant
- NEMA Premium Efficient
- IP55 Ingress Protection
- Inverter Ready, 10:1 Turndown
- Up to 75 HP (55 kW)



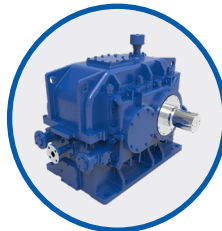
■ CUSTOM GEAR DRIVES

Custom **Mill**, **Planetary**, and **High-Speed** Drives available in a wide range of configurations. **Tough**, **compact**, and application specific designs for **unique** applications including **API** requirements.

Torque: Up to 6,515,000 lb•in
(736,000 N•m)

Ratio: Up to 1,400:1

Custom ratios available



■ GEAR COUPLINGS

Compensates for **eccentricity** and **deflection** angle between the shafts, and transmits the torque **smoothly** from the driving side.

Torque: Up to 57m lb•in
(6.4m N•m)

Bore Size: Up to 35in

Type: Gear



■ ENCODERS

Two standard incremental types:

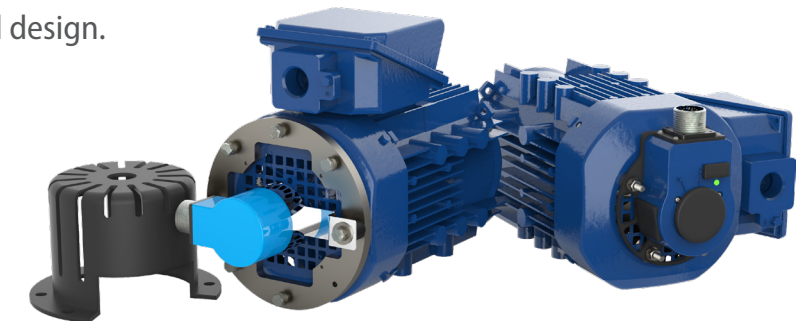
- **For non-brakemotors:** AV32 magnetic type.
- **For brakemotors, or other uses:** HS25A optical design.

Vibration: 5 to 2,000 Hz

Shock: 50G, 11 mS duration

Speed: 6,000 RPM

Ingress Rating: IP65



Online product configurator **streamlines the selection process**, enabling **you** to build our power transmission products for **your** specific application.

CANADA.SumitomoDrive.com/Configurator

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 & 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

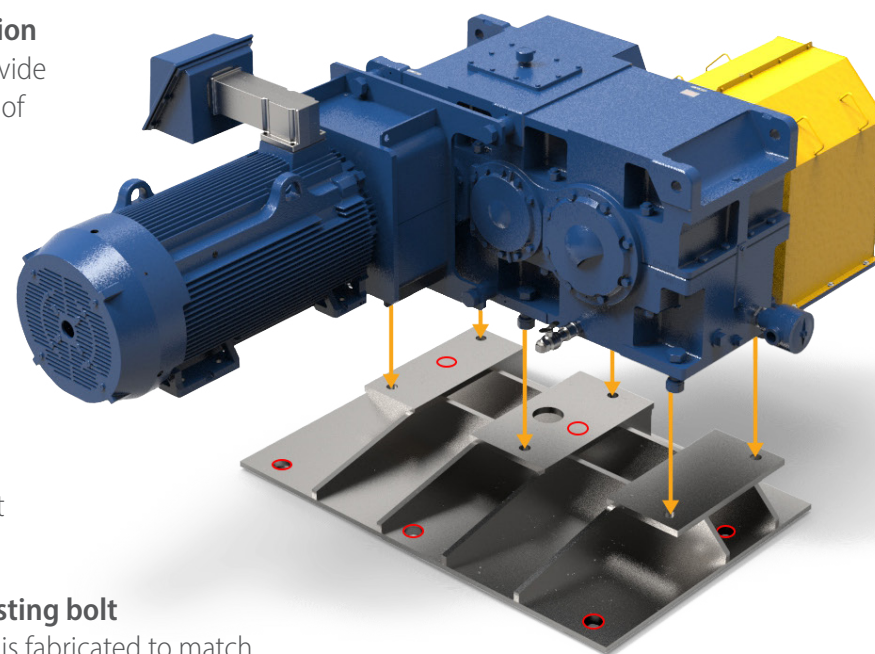
Match Existing Footprint

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 retro-fits 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.



DROP-IN

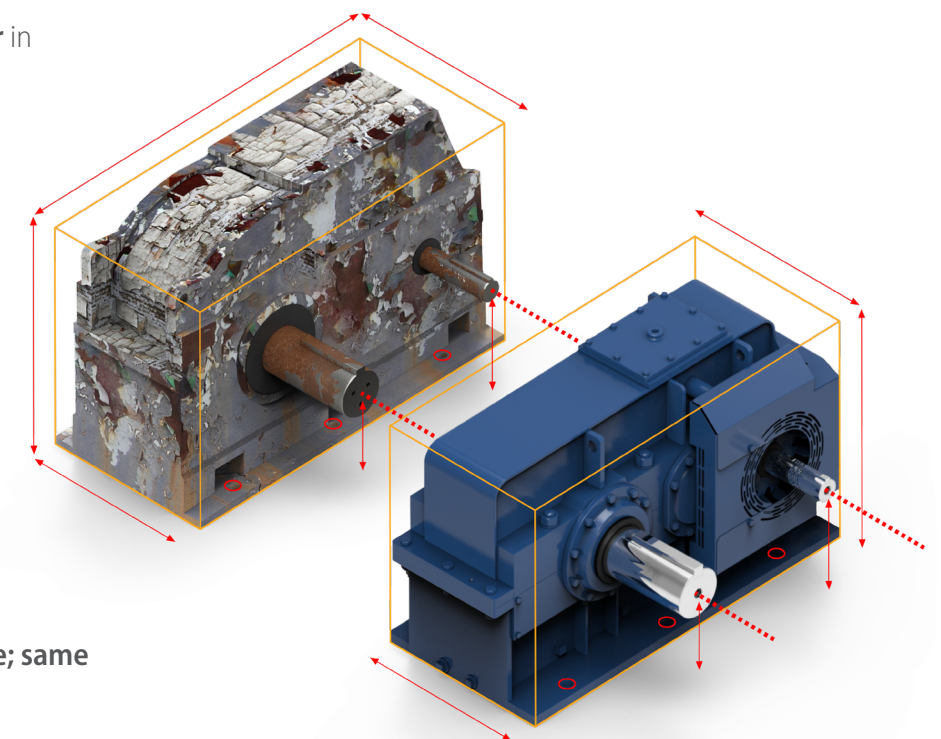
Match Existing Unit's Critical Dimensions

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 replacements** can have your application back up and running in **no time**. We offer fabricated steel housings, custom baseplates, custom gearing and shafting, and more!

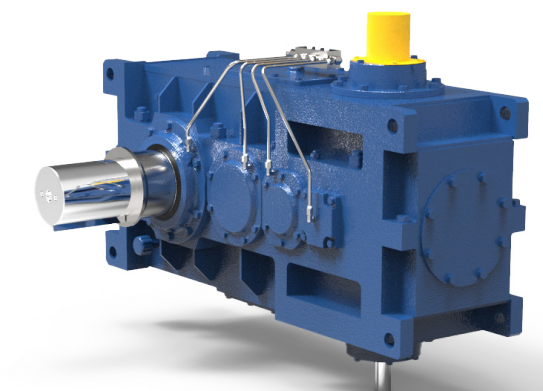
This product will literally drop-in to place; same footprint, same shaft positions!



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.



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!



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!

■ 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.

• Expandable

Multi-reducer monitoring.

• Reliable

Schedule machine downtime to avoid lost production.

• Cost-Effective

Lower overall ownership cost.

the **CHECK**
ENGINE LIGHT for
SPEED REDUCERS

* All DriveSMART options include: Hygroscopic 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.



Our factory capabilities support all of your gearbox needs.



web: Canada.SumitomoDrive.com