

OUR BUSINESS

◆ Sumitomo Heavy Industries, Ltd.

◆ Sumitomo Heavy Industries Gearmotors Co., Ltd.

CATALOG | S03E-10.3
Printed 2016.12

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Introduction

Sumitomo Drive Technologies

Today, business environments around the world change rapidly and market competition is fierce. Yet, the idea of business globalization and borderless economies is becoming a commonplace. Sumitomo Drive Technologies moves forward as a unified and global group, constantly adapting to these changes.

We promise our customers to uphold our values as a “dependable partner with reliable products” and to deliver “dynamic, timely support and services.”
Our brand expresses our commitment to our customers.

BRAND STATEMENT

We are always moving forward in pursuit of new ideas that inspire our partners to create new values that will change the world.

Sumitomo Drive Technologies’ brand guarantees innovative, top quality products and services developed by the most advanced technologies.

From steel production and cargo cranes to food processing and healthcare, as well as robots and semiconductor equipment, we offer products and services worldwide that improve mankind’s quality of life.

History

400 Years of Sumitomo Group History

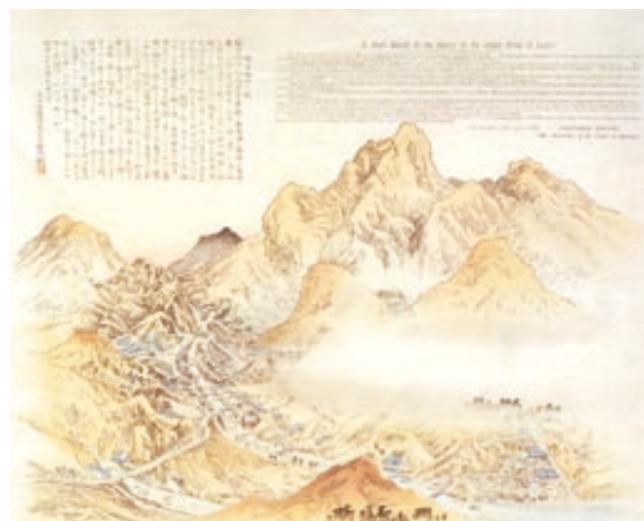
The Sumitomo Group

A history of the Sumitomo Group started more than 400 years ago when Masatomo Sumitomo opened a book and a pharmacy store in the city of Kyoto, Japan. Over the next 100 years, the Sumitomo family developed its leading presence in copper refining, which led to the family opening the Besshi copper mine. The Sumitomo Group has continued to grow and diversify its business to become one of the largest corporate groups in the world.

After 400 years, "Business Spirit" of the Sumitomo family continues to live in each Sumitomo Group Company. The core of the Sumitomo Group, listed below, consists of 20 companies who share the Sumitomo Emblem as well as many common values and ideals.



Company Emblem of Sumitomo Group
Igeta (well frame) Symbol



Map of the Besshi Copper Mine

The core 20 companies of Sumitomo Group

- Sumitomo Chemical Co., Ltd. Chemicals
- Sumitomo Heavy Industries, Ltd. Machinery and shipbuilding
- Sumitomo Mitsui Banking Corporation Finance
- Sumitomo Metal Mining Co., Ltd. Nonferrous metals
- Sumitomo Corporation Integrated trading company
- Sumitomo Mitsui Trust Bank, Ltd. Finance
- Sumitomo Life Insurance Co. Insurance
- The Sumitomo Warehouse Co., Ltd. Warehousing
- Sumitomo Electric Industries, Ltd. Electronics and electric products
- Mitsui Sumitomo Insurance Co., Ltd. Insurance
- Nippon Sheet Glass Co., Ltd. Glass
- NEC Corporation Electronics and electric products
- Sumitomo Realty & Development Co., Ltd. Real estate
- Sumitomo Osaka Cement Co., Ltd. Cement
- Sumitomo Mitsui Construction Co., Ltd. Construction
- Sumitomo Bakelite Co., Ltd. Chemicals
- Sumitomo Forestry Co., Ltd. Lumber and housing
- Sumitomo Rubber Industries, Ltd. Rubber
- Sumitomo Dainippon Pharma Co., Ltd. Pharmaceutical
- Sumitomo Joint Electric Power Co., Ltd. Electric Power

Sumitomo Heavy Industries, Ltd.

In 1888, the company was formed to provide equipment repair services to the Besshi copper mine. Nearly 50 years later in 1934, the company incorporated as Sumitomo Machinery Co., Ltd. and manufactured machineries for steel, material handling, chemical industries, and plant construction, which were the driving forces behind Japan's high economic growth.

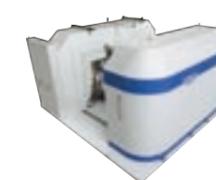
In 1969, Sumitomo Machinery Co., Ltd. merged with Uruga Heavy Industries Co., Ltd. and was renamed as Sumitomo Heavy Industries Co., Ltd. The company continues to innovate and expand a business to fulfill the demands of new market frontiers. Today, Sumitomo Heavy Industries Co., Ltd. manufactures injection molding machines, laser systems, semiconductor machinery, and liquid crystal production.



Plastic injection molding machine



Laser annealing equipment for FPD



PET



Precision Positioning Stages

History

More than 70 Years in Drive Technologies

Sumitomo Drive Technologies of Sumitomo Heavy Industries, Ltd.

The first manufacturing of electric motors and speed reducers in Sumitomo Heavy Industries, Ltd. was begun in the early 20th Century.

In 1911, Sumitomo Machinery Co., Ltd. began manufacturing direct-current electric motors (3.7kW) for the Besshi copper mine. In the late 1930s, the company formed a technical cooperation agreement with CYCLO Getriebebau Lorenz Braren KG of Germany. In 1939, Sumitomo Drive Technologies was born when Sumitomo Heavy Industries, Ltd. began to manufacture CYCLO® DRIVES. In 2003, Sumitomo Drive Technologies was implemented as a global group brand to bind all power transmission businesses of the world.

For more than 70 years, Sumitomo Drive Technologies continues to lead the world with knowledge and innovation in power transmission and control devices. Sumitomo Drive Technologies strives to be the "dependable partner" for our customers.

The first trial manufactured
CYCLO® DRIVE



The inventor of CYCLO® DRIVE
Mr. Lorenz Braren



Technology and Global

Sumitomo Drive Technologies and its Products

Sumitomo Heavy Industries, Ltd.

- Cyclo® Drive
- Planetary Gear
- Helical Gear
- Bevel Gear
- Worm Gear
- Inverter
- Mechanical Speed Variator
- Motor for Speed Reducer

Sumitomo Heavy Industries Gearmotors Co., Ltd.

- Cyclo® Drive
- Helical Gear
- Hypoid Gear
- Speed Controller
- Motor for Speed Reducer

Sumitomo Heavy Industries Gearbox Co., Ltd.

- Planetary Gear
- Helical Gear
- Worm Gear
- Coupling
- Bevel Gear
- Speed Reducer and Increaser for Industrial Machine and Wind Power Machine
- Speed Reducer and Increaser for High Speed
- Reducer for Pump
- Speed Reducer for Ship
- Speed Reducer for Construction Machine

Hansen Industrial Transmissions NV

- Helical Gear
- Bevel Gear
- Reducer for water treatment device
- Reducer for logistic device
- Reducer for Cooling tower
- Reducer for agitator
- Reducer for Paper Machine

Sumitomo Drive Technologies

TECHNOLOGY

NETWORK

Americas

P22-23

U.S.A.	Sumitomo Machinery Corporation of America
Argentina	SM Cyclo de Argentina S.A.
Brazil	Sumitomo Indústrias Pesadas do Brasil Ltda.
Chile	SM Cyclo de Chile, Ltda.
Mexico	SM Cyclo de Mexico, S.A. de C.V.
Canada	SM Cyclo of Canada, Ltd.
Colombia	SM Cyclo Colombia, S.A.S.
Guatemala	SM Cyclo de Guatemala Ensambladora, Ltda.

Europe + Africa

P24-25

Germany	Sumitomo (SHI) Cyclo Drive Germany GmbH
Austria	Sumitomo (SHI) Cyclo Drive Germany GmbH (Branch Office)
Belgium	Sumitomo (SHI) Cyclo Drive Germany GmbH (Branch Office) Hansen Industrial Transmissions NV
France	SM-Cyclo France SAS
Italy	SM-Cyclo Italy Srl
Turkey	SM Cyclo Turkey Güç Aktarım Sis. Tic. Ltd. Sti.
Spain	SM-Cyclo Iberia, S.L.U.
Sweden	Sumitomo (SHI) Cyclo Drive Germany GmbH (Sales Office)
United Kingdom	SM-Cyclo UK Ltd. Hansen Transmissions Ltd.
South Africa	Hansen Transmissions Pty Ltd.

Asia + Oceania

P26-27

China	Sumitomo (SHI) Cyclo Drive China, Ltd. Sumitomo (SHI) Cyclo Drive Logistics, Ltd. Sumitomo Heavy Industries (Tangshan), Ltd. Hansen Transmissions (Tianjin) Industrial Gearbox Co., Ltd.
Hong Kong	SM-Cyclo of Hong Kong Co., Ltd.
Korea	Sumitomo (SHI) Cyclo Drive Korea, Ltd.
Taiwan	Tatung SM-Cyclo Co., Ltd.

P28-29

Singapore	Sumitomo (SHI) Cyclo Drive Asia Pacific Pte. Ltd.
Philippines	Sumitomo (SHI) Cyclo Drive Asia Pacific Pte. Ltd. (Branch Office)
Indonesia	PT. SM-Cyclo Indonesia
Vietnam	Sumitomo Heavy Industries (Vietnam) Co., Ltd. SM-Cyclo (Vietnam) Co., Ltd.
Malaysia	SM-Cyclo (Malaysia) Sdn. Bhd.
Thailand	SM-Cyclo (Thailand) Co., Ltd.
Australia	Sumitomo (SHI) Hansen Australia Pty. Ltd.
India	Sumi-Cyclo Drive India Private Limited

P30-31

Japan	Sumitomo Heavy Industries, Ltd. Sumitomo Heavy Industries Gearmotors Co., Ltd. Sumitomo Heavy Industries Power Transmission Controls Sales Co., Ltd. Sumitomo Heavy Industries Gearbox Co., Ltd.
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Global Mission

Global Web

Sumitomo Drive Technologies began to develop a global presence in response to the challenges of the company mission to facilitate premier support of our partners' needs that lead to the development of operations located around the world.

In 1966, Sumitomo Drive Technologies established Sumitomo Machinery Corporation of America, the very first overseas manufacturing plant, in the United States to support the Western Hemisphere. In 1974, we signed a capital sharing agreement with CYCLO Getriebebau Lorenz Braren KG of Germany to bring further innovation to the Cyclo technology through technical collaboration of both companies. Eventually, the partnership formed Sumitomo (SHI) Cyclo Drive Germany GmbH.

The global Sumitomo Drive Technologies web extends local sales and after service. Through this extensive web, we provide the world with high performance, reliable, and premium quality products and services. Our global web links the resources for marketing, procurement, production, and distribution to support customers at a world-class level for speed and accuracy.



Research and Development

Answering Customer's Voices

In striving to satisfy customers without compromising on the goals of innovation and reliability, Sumitomo Drive Technologies aggressively invests in Research and Development. As technology changes and improves, the power transmission and controls systems must also change and improve.

To challenge the technical horizons of mechanical and electrical components, Sumitomo Drive Technologies relies on research to uncover new levels of performance, reliability, and quality. From these "seeds" of research come the technologies of the future and the creation of new products to better serve customer needs.

The strength of our Research and Development efforts is in the ability to generate original concepts that transform into unique, customer focused products. Sumitomo Drive Technologies Research and Development believes that "what was not possible before is now possible." Meet and exceed customers' expectation, that is our passion.

FEM Strength and Rigidity Analysis



FEM strength analysis results on power transmission shafts are used to show stress distribution and displacement simultaneously. The Sumitomo research and development stance of "no compromise on reliability" is evident in all the components that make up Sumitomo Drive Technologies products.

CYCLO® DRIVE



The CYCLO®DRIVE is one example of world-class Research and Development efforts in Sumitomo Drive Technologies. This product offers strength and reliability for unparalleled performance in operation. The Research and Development team created new internal geometries enabling higher load capabilities that reduced equipment sizes up to 40% and reduced generated noise.

Nagoya Works



This leading-edge facility conducts the Research and Development for the Cyclo® product family, the high precision products and electric motors as well as the next-generation actuator products. The facility capabilities include an extensive product performance -testing laboratory.

Okayama Works



The Factory for the gearbox products houses the design, management, production and after sales support. All Research and Development for gearbox products takes place at this facility.



Devoted to Quality

Why Sumitomo?

Why do customers prefer to use Sumitomo Drive Technologies products? The answer is that we offer the broadest range of products that are the most reliable and the highest quality available.

The CYCLO® DRIVE products provide customers with almost limitless flexibility and reliability in their applications. The revolutionary Hyponic products give customers high-efficiency performance in a compact design with hypoid gear technology. The Paramax® product family provides industrial customers a strong and a reliable gearbox that is designed for years of trouble-free service.

Our development engineers design these products with years of proven expertise in the power transmission industry. The industry recognizes that Sumitomo Drive Technologies products are the most reliable on the market. By using careful planning and verification testing over the entire development process, the engineers insure that these products are the most reliable and the highest quality available.



C.R.M.

Knowledge & Communication

Across Sumitomo Drive Technologies' web, the highly trained sales team works tirelessly to maintain a close relationship with customers. The sales team support comes from the 250 sales offices located in 50 countries around the world. This web of support helps customers to evaluate their unique challenges and select the best available solution from the extensive product portfolio. In this way, our sales support web shares the same challenges and finds solutions together with the customers of the world as "a dependable partner."

Today, the volume of information is exploding at a tremendous rate. To manage this information and service customers more effectively, we have developed a Knowledge Management System. Through this system, sales personnel have expert information readily available that enables them to support the customer better. The optimum solution to a customer's problem is now immediately available to the sales force.

Humanity and Environment

People Working Together

As the recognized premium, power transmission technology leader in the world, Sumitomo Drive Technologies listens to customers closely to understand their changing needs and expectations. For over 70 years, the employees of our company continually improved the technology, products, and services in response to customer's demands. The "People" of Sumitomo Drive Technologies are the driving force behind these innovative changes. With a strong emphasis on innovation and invention, each member of the Group is encouraged to contribute and develop their ideas, concepts and originality to support customers. Whether they work in sales, design, development, manufacturing, quality control, or service, this process raises each individual's sensitivity to maximizing customer benefit.

Through activities like our Knowledge Management System, a sharing innovation happens on a global scale, provides a forum to propose, and try new ideas and concepts. Any member of Sumitomo Drive Technologies may access and evaluate new concepts from anywhere in the world. With the Knowledge Management System, our personnel evaluates ideas by two criteria: "Will the idea benefit the customer?" and "Will the idea increase trust between our customers and us?"

Sumitomo Drive Technologies respects nature and the individual

Environmental responsibility is a key objective of Sumitomo Drive Technologies. All stakeholders in our group business processes (customers, vendors, employees, and stockholders) expect to live and work in a healthy, safe, and comfortable environment resulting from all our business activities.

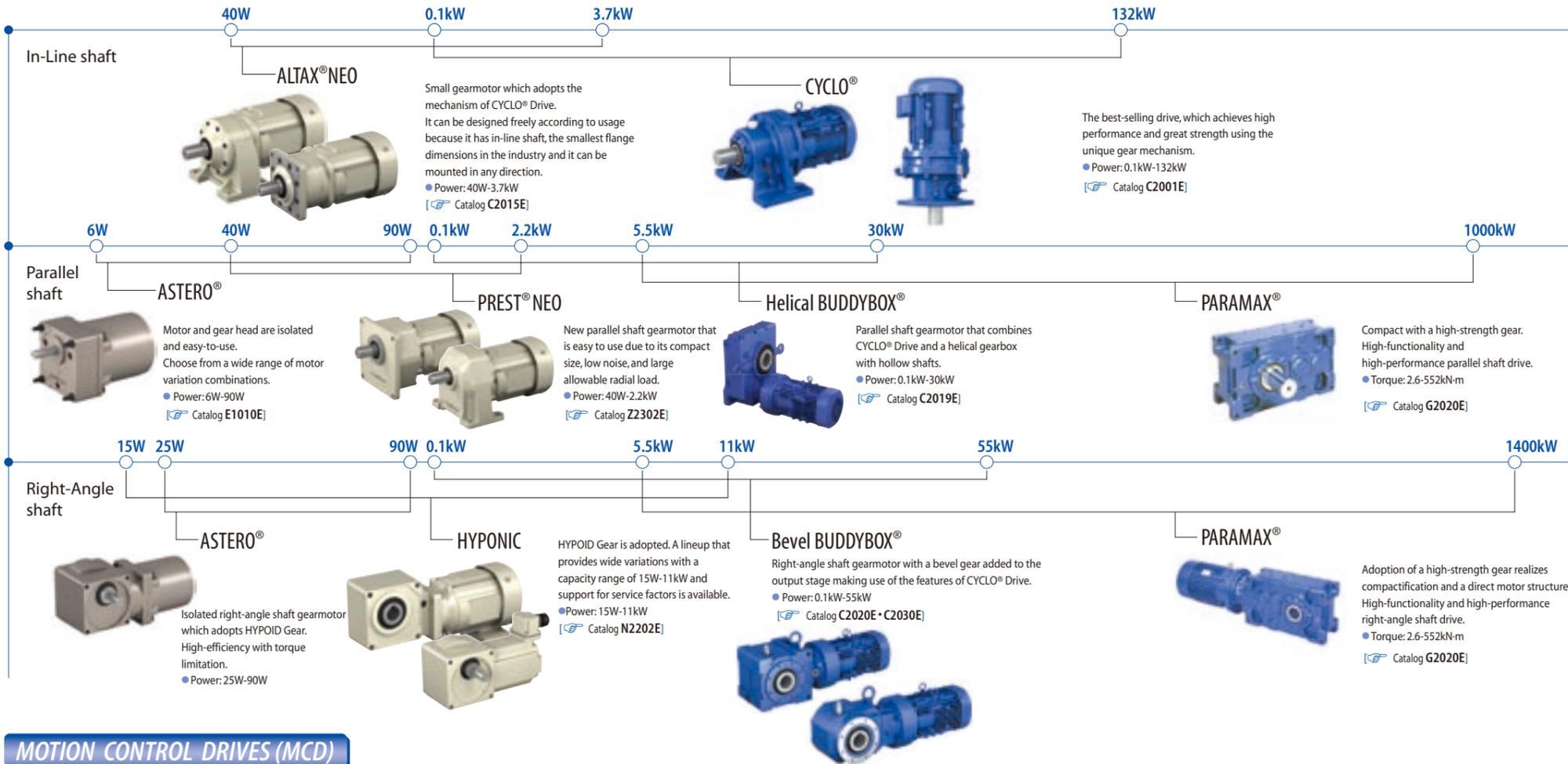
In support of this key objective, all our factories are ISO 14001 certified. In addition, each product designed by Sumitomo Drive Technologies maximizes operating efficiencies such as conserving energy and reducing CO2 emissions from power generating processes. The integration of reusable packaging materials is another key area where we succeed in conserving resources.



Reliability and Achievement

Product Lineup

GEARMOTORS



MOTION CONTROL DRIVES (MCD)



Sumitomo Heavy Industries, Ltd.

Sumitomo Heavy Industries Gearmotors Co., Ltd.

AC INVERTORS



Mechanical speed variator

BEIER VARIATOR[®]



Mechanical stepless speed variator with a tradition longer than 50 years and a track record of reliability in its large capacity and service life. Power: 0.2kW-150kW [Catalog B2001E]

Worm drive

HEDCON[®]



High-performance worm drive that achieves high efficiency and great strength using a unique double-contact theory. Torque: 0.8-82kN-m [Catalog W0101E]

*Catalogs are available for all models.

Products [1]

SMALL GEARMOTORS 6W-90W

Sumitomo Drive Technologies offers a broad range of compact gearmotor products where reliability, efficiency and quiet operation are required.

The ASTERO® gearmotor offers a modular system of motors and offset-parallel gear heads that provide customers with the maximum flexibility and interchangeability; thus, giving them a product that is perfectly matched to their application.

The HYPONIC right-angle gearmotor provides the customer with a high efficiency, high torque, quiet running product that is designed for reliable service and maintenance-free operation. The Hypoid gear technology is the key to the product's high performance and compact design.

Where in-line speed reducer customers require very low operating and brake noise levels, the PREST®NEO products is applied. The PREST®NEO, originally designed as a simply using parallel gearmotor, and provides a quiet, reliable operation.

The heart of the ALTAX® in line (concentric) gearmotor is the CYCLO® speed reduction concept. The CYCLO® concept is respected globally as the best solution to speed reduction applications when customers demand reliability and performance.

ALTAX® is the best matched product for overload resistance applications.

PARALLEL / RIGHT ANGLE



ASTERO® GEARMOTOR

- Power ... Parallel : 6W~90W
Right Angle : 25W~90W
- Ratio ... Parallel : 1/3~1/200
Right Angle : 1/5~1/240
- Motor ... Induction (Single Phase, Three Phase)
Reversible
Speed Control
CE UL CCC
Inter Decimal Gearhead (1/10)

IN-LINE



ALTAX®NEO GEARMOTOR

- Power ... 40W~90W
- Ratio ... 1/6~1/51
- Motor ... Induction (Single Phase, Three Phase)
Reversible

RIGHT ANGLE



HYPONIC GEARMOTOR®

- Power ... 15W~90W
- Ratio ... 1/5~1/1440
- Motor ... Induction (Single Phase, Three Phase)
Reversible
IP65

PARALLEL



PREST®NEO GEARMOTOR

- Power ... 40W~90W
- Ratio ... 1/5~1/70
- Motor ... Induction (Single Phase, Three Phase)
Reversible

SMALL GEARMOTORS 0.1-2.2kW

IN-LINE



ALTAX®NEO GEARMOTOR

- Power ... 0.1kW~3.7kW
- Ratio ... 1/3~1/1003
- Motor ... Induction (Single Phase, Three Phase)
Premium Efficiency (IE3) Motor
Inverter Motor
High-Efficiency Motor
Safety Increased
For Global Standard

RIGHT-ANGLE



HYPONIC GEARMOTOR®

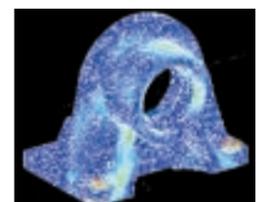
- Power ... 0.1kW~11kW
- Ratio ... 1/5~1/1440
- Motor ... Induction (Single Phase, Three Phase)
Premium Efficiency (IE3) Motor
Inverter Motor
High-Efficiency Motor
Safety Increased
For Global Standard

PARALLEL



PREST®NEO GEARMOTOR

- Power ... 0.1kW~2.2kW
- Ratio ... 1/3~1/200
- Motor ... Induction (Single Phase, Three Phase)
Premium Efficiency (IE3) Motor
Inverter Motor
High-Efficiency Motor
Safety Increased
For Global Standard



Casing Designed for ALTAX®NEO

This combines the three-dimensional CAD finite element analysis system with Sumitomo technology. It achieves both strength and compact size.

In addition to an extensive range of small gearmotor, Sumitomo Drive Technologies offers a comprehensive range of gearmotor products for larger torque applications.

The excellent reputation of the ALTAX®, with the CYCLO® speed reduction technology, is known throughout the industry as a highly reliable, in-line gearmotor product for tough applications.

The ALTAX® compact, optimal design results from applying FEM/3D CAD finite element analysis during the product design / development process.

The HYPONIC gives customers a compact, much more efficient alternative to Worm Gear technology. As a right angle drive, the HYPONIC utilizes hypoid gear technology that provides very quiet operation, high efficiencies and smaller mounting "footprint" than other hypoid gear products.

Where in-line speed reducer customers require very low operating and brake noise levels, the PREST®NEO products is applied. The PREST®NEO, originally designed as a simply using parallel gearmotor, and provides a quiet, reliable operation.



HYPONIC Hypoid Gear

The hypoid gear is midway between a worm gear and a bevel gear. It is more efficient than a worm gear and much quieter than a bevel gear. It is the optimum gear for use in small right-angle gear motors.

Products [2]

MIDDLE GEARMOTORS 0.1kW-132kW

IN-LINE



CYCLO®

- Power ... 0.1kW~132kW
- Ratio ... 1/2.5~1/658503
- Motor ... Premium Efficiency (IE3) Motor
Inverter Motor
High Efficiency Motor
Safety Increased
Explosion Proof
For Global Standard

RIGHT-ANGLE



Bevel BUDDYBOX®

- Power ... 0.1kW~55kW
- Ratio ... 1/11~1/10658
- Motor ... Premium Efficiency (IE3) Motor
Inverter Motor
High Efficiency Motor
Safety Increased
Explosion Proof
For Global Standard

PARALLEL



Helical BUDDYBOX®

- Power ... 0.1kW~30kW
- Ratio ... 1/11~1/4365
- Motor ... Premium Efficiency (IE3) Motor
Inverter Motor
High Efficiency Motor
Safety Increased
Explosion Proof
For Global Standard

Ever since it was first introduced in 1939, the CYCLO® DRIVE has been highly evaluated by customers for its strength and reliability. The secret to this product is its unique gear teeth and mechanism.

As a cycloidal tooth profile in the inner gear and an epitrochoidal parallel curve in the outer gear have been adopted, the gear engagement ratio is very high, to eliminate the risk of tooth breakage and greatly raising the reliability of the reducer.

Furthermore, high carbon and chromium bearing steel noted for their heat and fatigue resisting properties have been used. The Sumitomo-unique mechanism offers high reduction ratios of 1/6 to 1/119 for the single stage type and 1/121 to 1/7569 for the double stage type, making the drives much more compact than when typical involute gears are used.

The very high reduction ratio of 1/9251 to 1/658503 for the three-stage type, difficult with the typical involute gears, can be achieved easily with this mechanism.

In addition to the characteristics of the CYCLO® DRIVE mechanism, the greater load capacity of the 6000 Series offers up to 40 percent more size reduction. Elasticity analysis and development of a new tooth profile have helped for further noise reduction.

The BEVEL BUDDY BOX®, with right-angle shaft, and HELICAL BUDDY BOX®, with parallel shaft, are designed to take advantage of the superior characteristics of this CYCLO® gear mechanism by using bevel gears and helical gears for the output stage. These two product lineups make CYCLO® DRIVES even easier to use.



MOTION CONTROL DRIVES

These are CYCLO® DRIVES used for precision control. They combine the high strength and impact resistance of CYCLO® gears with very low backlash design.

Because they are the component type, they are easy to install in customer machines. High precision alignment is made possible when combined with servo motors.

This line is ideal for applications that require higher rigidity and precision stopping. They are used in machine tools, industrial robots and factory automation equipment.

There are various series to suit different types of applications.

The STD and LB Series CYCLO® DRIVE can be directly connected to general-purpose servo motors. There are standard backlash models and low 6min backlash models.

The IB Series P1 and P2 Type low backlash reduction gears use a Sumitomo-unique planetary gear mechanism and the PK1 type, with right-angle shaft, combine high performance bevel gears.

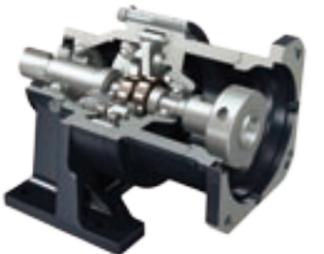
When combined with servo motors, they can be used in all types of precision alignment applications, such as robots for injection molding machines, machine tools and packaging machines.



F Series



IB Series



LB STD Series

IN-LINE



F Series CYCLO®

CYCLO® Drive For Precision Control

<FC-A, F1C-A, F2C-A, F2C-C, F4C-C, F4C-D Series>

- Allowable peak torque ... 336N-m~6278N-m
- Ratio ... 1/29~1/119
- Lost Motion ... 1min
- Output shaft ... FC-A : Standard
F1C-A : with Cross Roller Bearing
F2C-A : with Taper Roller Bearing
F2C-C : with Taper Roller Bearing Large Diameter Type
F4C-C : with Angular Contact Ball Bearing Large Diameter Type
F4C-D : with Angular Contact Ball Bearing

<FC-T, F2C-T Series>

- Allowable peak torque ... 412N-m~11036N-m
- Ratio ... 1/81~1/171
- Lost Motion ... 0.5min
- Output shaft ... FC-T : with Component type
F2C-T : with Taper Roller Bearing

IN-LINE



Servo CYCLO® Reducers

LB (Low Backlash) Series CYCLO®

- Allowable peak torque ... 30N-m~630N-m
- Ratio ... 1/6~1/29
- Backlash ... 6min and smaller
- Input shaft ... Hollow High Speed Shaft for Servo Motors (Keyless or Keyway)

STD Series CYCLO®

- Allowable peak torque ... 30N-m~1370N-m
- Ratio ... 1/6~1/87
- Backlash ... 60min
- Input shaft ... Hollow High Speed Shaft for Servo Motors (Keyless or Keyway)

IN-LINE



IB Series P1, P2 Type

Reducer For Servo Motors

- Allowable peak torque ... 35N-m~3000N-m
- Ratio ... 1/4~1/100
- Backlash ... 3min, 15min
- Suitable for the latest Servo motor
- Output Shaft ... Flange
Solid (Keyless or Key)
- Input shaft ... Hollow High Speed Shaft for Servo Motors (Keyless)

RIGHT-ANGLE



IB Series PK1 Type

Reducer For Servo Motors (Right Angle Type)

- Allowable peak torque ... 35N-m~380N-m
- Ratio ... 1/6~1/243
- Backlash ... 6min, 15min
- Suitable for the latest Servo motor
- Output Shaft ... Flange
Solid (Keyless or Key)
- Input shaft ... Hollow High Speed Shaft for Servo Motors (Keyless)

Products [3]

SPEED REDUCERS

Sumitomo Drive Technologies also provides an extensive line of medium and large-sized speed reducers.

Two types of speed reducers are provided for the PARAMAX® Series. One is a parallel gearbox with helical gears and the other combines helical gears and bevel gears in a right-angle gearbox. Systematic combinations of individual components have led to standardization of almost all gears, shafts and cases. This makes both higher quality and shorter delivery times possible for speed reducers.

Compared with the ordinary pressure angle of 20°, a 25° pressure angle offers tooth form with thicker dedendum. This provides the higher tooth strength rating that is essential for shock load applications.

FEM analysis is used to maximize housing strength and rigidity, thereby ensuring correct gear alignment and noise reduction.

The 9000 series right-angle models allow direct motor mounting. This eliminates the need for coupling and simplifies motor installation, enabling more compact designs.

The HEDCON® worm gear speed reducer is based on the unique double contact theory, which creates a high-efficiency, high-strength worm reduction mechanism. A high-precision series featuring low backlash is also available.



NEW DESIGN CONCEPT OF PARAMAX® 9000

PARALLEL / RIGHT ANGLE



PARAMAX® 9000 Series

- Torque ... 2.6~552kN-m
- Ratio ... Parallel : 1/6.3~1/500
Right Angle : 1/6.3~1/450
- Motor ... PARAMAX® applied products
SEB Series for Extruder
SFC Series for Cooling Tower
SCC Series for Crane Hoisting
SHC Series for Garbage Crane
SGD Series for Water Gate
SPA Series for Paper Machine

RIGHT ANGLE



HEDCON®
WORM GEAR SPEED REDUCER

- Torque ... 0.8~82kN-m
- Ratio ... 1/5~1/100
- Motor ... Standard
A Series (Precision)
with CYCLO® DRIVE

Products [4]

SPEED CONTROL

MECHANICAL



BEIER® VARIATOR



BEIER CYCLO VARIATOR®

- A Type
- Power ... 0.2kW~150kW
 - Speed range ... 1 : 4
 - Torque ... Intermediate characteristic between torque constant and power constant
- B Type
- Power ... 0.2kW~110kW
 - Speed range ... 1 : 4
 - Torque ... Power constant
- D Type
- Power ... 0.4kW~7.5kW
 - Speed range ... 1 : 10
 - Torque ... Intermediate characteristic between torque constant and power constant

ELECTRICAL (INVERTER)



INVERTER CAI Series

- Power ... 25W~100W
(1 Phase 100V/200V
~3 Phase 200VClass
Input-Output)
- Speed Control ... V/f



INVERTER HF-520/HF-X20 Series

- Power ... 0.2kW~7.5kW
(3 Phase 200V Class
Input-Output)
0.4kW~7.5kW
(3 Phase 400V Class
Input-Output)
- Speed control ... Sensorless Vector Control
- High starting torque ... 200% of rated motor torque

ELECTRICAL (INVERTER)



INVERTER SF-520 Series

- Power ... 0.1kW~2.2kW
(3 Phase 200V Class
Input-Output)
- Speed Control ... V/f



INVERTER HF-430α Series

- Power ... 5.5kW~55kW
(3 Phase 200V Class
Input-Output)
5.5kW~55kW
(3 Phase 400V Class
Input-Output)
- Speed control ... Sensorless Vector Control
- High starting torque ... 200% of rated motor torque

Sumitomo Drive Technologies offers two types of speed control drives. One is a mechanical series, the other an electrical series.

The electrical series includes the inverter type that is widely used, a motor specifically designed for that inverter and an IV-DRIVE, that combines the inverter and motor.

Sumitomo Drive Technologies has optimized the inverter and CYCLO® gear motor combination by designing the inverter to store motor characteristics when the two are used together. Torque performance, including starting torque, has been improved to create greater operating power.

The BEIER® VARIATOR, with a 60 year history and sales of 700,000 units, is provided as a stepless variable speed reducer. The BEIER CYCLO VARIATOR®, which combines CYCLO® gear, is provided as a variable speed reducer. The key characteristics of this series are a choice of a fixed horsepower or a combination of fixed horsepower and torque, which offers especially high torque in the low-speed range.



International Operations [1]

Americas



U.S.A.

◆ Sumitomo Machinery Corporation of America (SMA)

Headquarters : Chesapeake, Virginia
 Address: 4200 Holland Blvd. Chesapeake, VA 23323, U.S.A.
 Tel: (1)757-485-3355 Fax: (1)757-485-7490
 Time Difference GMT -5

○ SMA Branch Chicago Facility

Address: 175 West Lake Drive, Glendale Heights, IL 60139, U.S.A.
 Tel: (1)630-752-0200 Fax: (1)630-752-0208
 Time Difference GMT -6

○ SMA Branch Los Angeles Facility

Address: 2375 Railroad St. Corona, CA 92880, U.S.A.
 Tel: (1)951-340-4100 Fax: (1)951-340-4108
 Time Difference GMT -8

○ SMA Branch Louisville Facility

Address: 4601 Commerce Crossings Drive Suite 200 Louisville, KY 40229, U.S.A.
 Tel: (1)502-969-0378
 Time Difference GMT -5

○ SMA Verona

Address: 33 Lakeview Court PO Box 320 Verona, VA 24482, U.S.A.
 Tel: (1)540-213-2442 Fax: (1)540-213-2222
 Time Difference GMT -5

Mexico

○ SM Cyclo de Mexico, S.A. de C.V. (SMME)

Headquarters : Monterrey
 Address: Av. Desarrollo 541, Col. Finsa, Guadalupe, Nuevo León, México, CP67132
 Tel: (52)81-8144-5130 Fax: (52)81-8144-5130
 Time Difference GMT -7

○ SMME Branch Mexico City Facility

Address: Carretera s Lago de Guadalupe Km. 27.5, Bodega A-1 Parque Industrial Tlanepark, Col. San Pedro Barrientos, CP 54010, Tlanepantla, Estado de Mexico, Mexico
 Tel: (52)55-5368-7172 Fax: (52)55-5368-6699
 Time Difference GMT -6

○ SMME Branch Guadalajara Facility

Address: Calle Broca No. 2605, Bodega 4, Colonia Parque Industrial el Alamo, Mexico
 Tel: (52)33-3675-4369 Fax: (52)33-3675-4418
 Time Difference GMT -6

Brazil

◆ Sumitomo Indústrias Pesadas do Brasil Ltda. (SHIB)

Headquarters, Plant : São Paulo
 Address: Rodovia do Acucar (SP-075) Km 26 Itu, Sao Paulo, Brasil
 TEL: (55)11-4886-1000 FAX: (55)11-4886-1000
 Time Difference GMT -3

Canada

○ SM Cyclo of Canada, Ltd. (SMC)

Headquarters : Toronto
 Address: 1453 Cornwall Road, Oakville, Canada ON L6J 7T5
 Tel: (1)905-469-1050 Fax: (1)905-469-1055
 Time Difference GMT -5

○ SMC Branch Vancouver Facility

Address: 740 Chester Road, Annacis Island, Delta, B.C., Canada V3M 6J1
 Tel: (1)604-525-5403 Fax: (1)604-525-0879
 Time Difference GMT -8

Guatemala

○ SM Cyclo de Guatemala Ensambladora, Ltda. (SMGT)

Headquarters : Villa Nueva
 Address: Parque Industrial Unisur, O Calle B 19-50 Zona 3, Bodega D-1 Delta Bárcenas en Villa Nueva, Guatemala
 Time Difference GMT -6

Colombia

■ SM Cyclo Colombia, S.A.S. (SMCO)

Headquarters : Bogotá
 Address: Carrera 11, No.93A-53, Office 203, Bogotá, Colombia
 Tel: (57)1-3000673
 Time Difference GMT -5

Chile

○ SM-Cyclo de Chile Ltda. (SMCH)

Headquarters : Santiago
 Address: San Pablo 3507, Quinta Normal, Santiago, Chile
 TEL: (56)2-892-7000 FAX: (56)2-892-7001
 Time Difference GMT -4

○ SMCH Branch Antofagasta Facility

Address: Compañía Minera Michilla #502, La negra - Antofagasta, Chile
 Tel: (56)5-556-1611 Fax: (56)5-556-1616
 Time Difference GMT -4

○ SMCH Branch Concepción Facility

Address: Camino a Coronel Km.10 N°5580 Modulo 3A, San Pedro de la Paz- Concepción, Chile
 Tel: (41)246-9806 Fax: (41)246-9808
 Time Difference GMT -4

Argentina

○ SM Cyclo de Argentina S.A. (SMAR)

Headquarters : Buenos Aires
 Address: Delpini, 2236Area de Promocion el Triangulo, Partido Malvinas Argentinas Grand Bourg, Buenos Aires, Argentina - B1615KGB
 Tel: (54)3327-45-4095 Fax: (54)3327-45-4099
 Time Difference GMT -3

International Operations [2]

Europe + Africa

- ◆ Sales/Manufacturing
- Sales/Assembly
- Sales Office
- Assembly Plant
- Manufacturing Plant
- △ Distributor



Germany

◆ **Sumitomo(SHI) Cyclo Drive Germany GmbH (SCG)**
Headquarters : Munich
 Address: Cyclostraße 92, 85229 Markt Indersdorf, Germany
 Tel: (49)8136-66-0 Fax: (49)8136-5771
 Time Difference GMT +1

■ **HIT Branch Office in Germany**
 Address: Schleefstraße 4, 44287 Dortmund, Germany
 TEL: (49)2319-06-249-0 FAX: (49)2319-06-249-30
 Time Difference GMT +1

Austria

■ **Sumitomo(SHI) Cyclo Drive Germany GmbH (SCG)**
SCG Branch Austria Office
 Address: Gruentalerstraße 30A, 4020 Linz, Austria
 Tel: (43)732-330958 Fax: (43)732-331978
 Time Difference GMT +1

Belgium

■ **Sumitomo(SHI) Cyclo Drive Germany GmbH (SCG)**
SCG Branch Benelux Office
 Address: Heikneuterlaan 23, 3010 Kessel-Lo, Leuven, Belgium
 Tel: (32)16-60-83-11 Fax: (32)16-60-16-39
 Time Difference GMT +1

◆ **Hansen Industrial Transmissions NV (HIT)**
Headquarters : Edegem
 Address: Leonardo. da Vincilaan 1-3-2650 Edegem, Belgium
 Tel: (32)34-50-12-11 Fax: (32)34-50-12-20
 Time Difference GMT +1

France

○ **SM-Cyclo France SAS (SMFR)**
Headquarters : Paris
 Address: 8 Avenue Christian Doppler, 77700 Serris, France
 Tel: (33)164-171717 Fax: (33)164-171718
 Time Difference GMT +1

Italy

○ **SM-Cyclo Italy Srl (SMIT)**
Headquarters : Milano
 Address: Via dell' Artigianato 23, 20010 Cornaredo(MI), Italy
 Tel: (39)293-481101 Fax: (39)293-481103
 Time Difference GMT +1

Spain

■ **SM-Cyclo Iberia, S.L.U. (SMIB)**
Headquarters : Bilbao
 Address: C/Landabbarri No. 3, 6° B, 48940 Leioa, Vizcaya, Spain
 Tel: (34)9448-05389 Fax: (34)9448-01550
 Time Difference GMT +1

Sweden

■ **Sumitomo (SHI) Cyclo Drive Germany GmbH**
Sales Office Nordic BRO (SCG)
 Address: Dagsverkarvägen 14, 19736 BRO, Sweden
 TEL: (46)40220031
 Time Difference GMT +1

United Kingdom

○ **SM-Cyclo UK Ltd. (SMUK)**
Headquarters : Hull
 Address: Unit 29, Bergen Way, Sutton Fields Industrial Estate, Kingston upon Hull, HU7 0YQ, East Yorkshire, United Kingdom
 Tel: (44)1482-790340 Fax: (44)1482-790321
 Time Difference GMT 0

○ **Hansen Transmissions Ltd.**
Headquarters : Huddersfield
 Address: Nile Street, Huddersfield, HD1 3LW, West Yorkshire, United Kingdom
 Tel: (44)1484-431414 Fax: (44)1484-431426
 Time Difference GMT 0

Turkey

■ **SM Cyclo Turkey Güç Aktarım Sis. Tic. Ltd. Sti. (SMTR)**
Headquarters : Istanbul
 Address: Büyükdere Çayırbaşı Cd. Dede Yusuf Sk. No: 11, 34453 Sarıyer Istanbul, Turkey
 TEL: (90)216-384-4482 FAX: (90)216-384-4482
 Time Difference GMT +2

South Africa

○ **Hansen Transmissions Pty Ltd.**
Headquarters : Johannesburg
 Address: 14 Griffiths Road, Jet Park, Boksburg, Gauteng 1460, South Africa
 Tel: (27)11-397-2496 Fax: (27)11-397-2585
 Time Difference GMT +2

International Operations [3]

Asia



China

- **Sumitomo(SHI)Cyclo Drive China, Ltd. (SCT)**
Sales Headquarters : Shanghai
 Address: 11F, SMEG Plaza, No.1386 Hongqiao Road, Changning District, Shanghai, China. (P.C.200336)
 Tel: (86)21-3462-7877 Fax: (86)21-3462-7922
 Time Difference GMT +8

- **SCT Branch Beijing Office**
 Address: Room 2205, Golden Tower, No1, Xibahe South Road, Chaoyang District, Beijing (P.C. 100028)
 Tel: (86)10-8485-4688 Fax: (86)10-8485-4698
 Time Difference GMT +8

- **SCT Branch Guangzhou Office**
 Address: Room 1208, A Tower, Centre Plaza, No. 161-163, Linhe West Rd, Guangzhou, China 510620
 Tel: (86)20-3828-8422 Fax: (86)20-3828-8580
 Time Difference GMT +8

- **SCT Tianjin Manufacturing Plant**
Manufacturing Headquarters : Tianjin
 Address: No. 7 Sanjing Road, Dongli Economic Development Zone, Tianjin, China 300300
 Tel: (86)22-2499-3501 Fax: (86)22-2499-3133
 Time Difference GMT +8

- **Sumitomo(SHI)Cyclo Drive Logistics, Ltd. (SCL)**
Headquarters : Shanghai
 Address: 2#, 301 ShuYa Road, Songjiang District Shanghai, China 201600
 Tel: (86)21-5774-8866 Fax: (86)21-5774-8511
 Time Difference GMT +8

- **Sumitomo Heavy Industries(Tangshan), Ltd.**
Headquarters : Tangshan
 Address: 35 Yuan Qu Road, Modern Equipment Manufacturing Industrial Park, Kaiping District, Tangshan, Hebei Province, China 063021
 Tel: (86)315-3390880 Fax: (86)315-3390936
 Time Difference GMT +8

- **SCT Guangzhou Assembly Plant**
 Address: No. 32 Sangtian San Rd, Yonghe Economic Zone, Guangzhou, China 511356
 Tel: (86)20-8298-1073 Fax: (86)20-3222-1017
 Time Difference GMT +8

Hong Kong

- **SM-Cyclo of Hong Kong Co., Ltd. (SMHK)**
Headquarters : Hong Kong
 Address: Rm 1301, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong
 Tel: (852)2460-1881 Fax: (852)2460-1882
 Time Difference GMT +8

Korea

- **Sumitomo(SHI)Cyclo Drive Korea, Ltd. (SCK)**
Headquarters : Seoul
 Address: Royal Bldg. 9F Rm. 913, 5 Dangju-Dong, Chongno-ku, Seoul, Korea 03173
 Tel: (82)2-730-0151 Fax: (82)2-730-0156
 Time Difference GMT +9

- **SCK Incheon Assembly Plant**
 Address: 101BL-11Lot Namdong-ku, Industrial Area 661-10, Gojan-Dong, Namdong-ku, Incheon-City, Korea 21691
 Tel: (82)32-819-8915 Fax: (82)32-819-2484
 Time Difference GMT +9

- **SCK Branch Busan Office**
 Address: Industrial Complex Bldg. 302-1, 578, Gaebeop-dong, Sasang-ku, Busan-city, Korea 46977
 Tel: (82)51-319-1547 Fax: (82)51-319-1587
 Time Difference GMT +9

- **SCK Branch Gumi Sales Office**
 Address: Room #706, Gumi Industrial Complex, 92-2, Imsu-dong, Gumi-city, Korea
 Tel: (82)54-476-6274 Fax: (82)54-476-6273
 Time Difference GMT +9

Taiwan

- **Tatung SM-Cyclo Co., Ltd. (TSC)**
Headquarters : Taipei
 Address: 22 Chungshan N. Road 3rd., Sec. Taipei, Taiwan 104, R. O. C.
 Tel: (886)2-2595-7275 Fax: (886)2-2595-5594
 Time Difference GMT +8

- **TSC San-Hsia Assembly Plant**
 Address: 352 Shi-Tong Road., San-Hsia, 237, Taipei County, Taiwan, R. O. C.
 Tel: (886)2-8676-1382 Fax: (886)2-8676-2285
 Time Difference GMT +8

International Operations [4]

Asia + Oceania



- ◆ Sales/Manufacturing
- Sales/Assembly
- Sales Office
- Assembly Plant
- Manufacturing Plant
- △ Distributor

Singapore

- **Sumitomo(SHI)Cyclo Drive Asia Pacific Pte. Ltd. (SCA)**
Headquarters : Singapore
 Address: 15 Kwong Min Road, Singapore 628718
 Tel: (65)6591-7800 Fax: (65)6863-4238
 Time Difference GMT +8

Philippines

- **Sumitomo(SHI)Cyclo Drive Asia Pacific Pte. Ltd. (SCA)**
Philippines Branch Office
 Address: B2B Granville Industrial Complex, Carmona, Cavite, 4116 Philippines
 Tel: (63)2-584-4921
 Tel: (63)46-430-3591
 Tel: (63)46-482-0580
 Fax: (63)2-584-4922
 Time Difference GMT +8

Indonesia

- **PT. SM-Cyclo Indonesia (SMID)**
Headquarters : Bekasi
 Address: Jalan. Sungkai Blok F 25 No. 09 K Delta Silicon III, Lippo Cikarang 17530, Indonesia
 Tel: (62)21-2961-2100 Fax: (62)21-2961-2211
 Time Difference GMT +7

Vietnam

- **Sumitomo(SHI)Cyclo Drive Asia Pacific Pte. Ltd. (SCA)**
Representative Office in Hanoi
 Address: Room 603, 6th Floor Noza Building, 243 Cau Giay Street, Cau Giay District, Hanoi, Vietnam
 Tel: (84)4-3767-2716 Fax: (84)4-3767-2470
 Time Difference GMT +7
- **SM-Cyclo (Vietnam) Co., Ltd. (SMVN)**
Headquarters : Ho Chi Minh
 Address: Factory 2B, Lot K1-2-5, Road No. 2-3-5A, Le Minh Xuan Industrial Park, Binh Chanh Dist., HCMC, Vietnam
 Tel: (84)8-3766-3709 Fax: (84)8-3766-3710
 Time Difference GMT +7
- **Sumitomo Heavy Industries (Vietnam) Co., Ltd.**
Plant : Hanoi
 Address: II-7 Thang Long Industrial Park, Dong Anh District, Hanoi, Vietnam
 Tel: (84)4-3955-0004 Fax: (84)4-3955-0014
 Time Difference GMT +7

Malaysia

- **SM-Cyclo (Malaysia) Sdn. Bhd. (SMMA)**
Headquarters : Kuala Lumpur
 Address: No.7C, Jalan Anggerik Mokara 31/56, Kota Kemuning, Seksyen 31, 40460 Shah Alam, Selangor Darul Ehsan., Malaysia
 Tel: (60)3-5121-0455 Fax: (60)3-5121-0578
 Time Difference GMT +8

Thailand

- **SM-Cyclo (Thailand) Co., Ltd. (SMTH)**
Headquarters : Chonburi
 ○ **Chonburi Assembly Plant**
 Address: 700/542 Moo 6, Amatanakom Industrial Estate Tambol Donhauroh, Muang District, Chonburi 20000, Thailand
 Tel: (66)38-454-233 Fax: (66)38-454-235
 Time Difference GMT +7

- **SMTH Bangkok Office**
 Address: 195, Empire Tower Unit 2103-4, 21st Fl., South Sathorn Road, Yannawa Sathorn Bangkok 10120, Thailand
 Tel: (66)2670-0998 Fax: (66)2670-0999
 Time Difference GMT +7

India

- **Sumi-Cyclo Drive India Private Limited (SMID)**
Headquarters : Pune
 Address: Survey No. 130, Hissa No. 02, Jeevan Nagar, Off Mumbai-Bangalore Bypass, Tathawade, Pune-411 033, India
 Tel: (91)20-6674-2900 Fax: (91)20-6674-2901
 Time Difference GMT +5.5

Australia

- **Sumitomo (SHI) Hansen Australia Pty. Ltd. (SHAU)**
Headquarters : Sydney
 Address: 181 Power Street Glendenning NSW 2761, Australia
 Tel: (61)2-9208-3000 Fax: (61)2-9208-3050
 Time Difference GMT +10
- **SHAU Branch Brisbane Office**
 Address: Unit 11,20 Archerfield Road Darra Queensland 4076, Australia
 Tel: (61)7-3853-3800 Fax: (61)7-3375-1000
 Time Difference GMT +10
- **SHAU Branch Rowville Office**
 Address: Unit 2, 88 Henderson Road Rowville Victoria 3178, Australia
 Tel: (61)3-9765-4300 Fax: (61)3-9765-4390
 Time Difference GMT +10
- **SMAU Branch Perth Office**
 Address: Unit 1/23 Mordaunt Circuit, Canning Vale, WA 6155, Australia
 Tel: (61)8-9456-1766 Fax: (61)8-9456-0944
 Time Difference GMT +8

International Operations [5]

Japan

Sumitomo Heavy Industries.,Ltd

Power Transmission & Control Group

■ Headquarters: Tokyo

Address: ThinkPark Tower, 1-1, Osaki 2-Chome Shinagawa-Ku,
Tokyo 141-6025, Japan
Tel: (81)3-6737-2511 Fax: (81)3-6866-5160
Time Difference GMT +9
Web Site <http://www.shi.co.jp/ptc/>

■ Nagoya Plant

Address: 1, Asahi-Machi 6-Chome, Ohbu-Shi, Aichi 474-8501, Japan
Tel: (81)562-88-3040 Fax: (81)562-46-8508
Time Difference GMT +9
Products: CYCLO DRIVE, BEIER VARIATOR, BUDDYBOX,
MCD, Motors, Inverters

■ Okayama Gearbox Plant

Address: 8230, Tamashima-Otoshima, Kurashiki-Shi, Okayama,
713-8501, Japan
Tel: (81)86-525-6820 Fax: (81)86-525-6358
Time Difference GMT +9
Products: PARAMAX, HEDCON, COMPOWER

Sumitomo Heavy Industries Gearmotors Co.,Ltd.

■ Headquarters, Plant: Aichi

Address: 1, Asahi-Machi 6-Chome, Ohbu-Shi, Aichi 474-8501, Japan
Tel: (81)562-88-3040 Fax: (81)562-46-8508
Time Difference GMT +9
Products: ALTAX®NEO, HYPONIC GEARMOTOR®, PREST®NEO, ASTERO®

Sumitomo Heavy Industries Gearbox Co.,Ltd.

■ Headquarters, Plant: Osaka

Address: 16-1, Wakihamma 4-Chome, Kaizuka-Shi, Osaka, 597-8555, Japan
Tel: (81)72-431-3021 Fax: (81)72-431-0846
Time Difference GMT +9
Web Site: <http://www.shigearbox.com/>
Products: Planetary Gear Reducer, Coupling Worm Reducer,
Industrial Machinery Reducer

Sumitomo Heavy Industries Power Transmission Controls Sales Co.,Ltd.

■ Headquarters: Tokyo

Address: ThinkPark Tower, 1-1, Osaki 2-Chome Shinagawa-Ku,
Tokyo 141-6025, Japan
Tel: (81)3-6737-2520 Fax: (81)3-6866-5171
Time Difference GMT +9
Web Site: <http://www.sumiju.co.jp>

○ Sales Office

Sapporo
Sendai
Ibaragi
Saitama
Chiba
Tokyo
Yokohama
Nagano
Toyama
Kanazawa
Shizuoka
Nagoya
Yokkaichi
Shiga
Kyoto
Kobe
Osaka
Kurashiki
Hiroshima
Niihama
Kitakyushu
Fukuoka

GENERAL INFORMATION

Company Name

 Sumitomo Heavy Industries, Ltd.

Foundation November 20, 1888
Establishment November 1, 1934
Head Office ThinkPark Tower, 1-1, Osaki 2-Chome,
Shinagawa-Ku, Tokyo 141-6025, Japan
Capital ¥30,871,650,000

Subsidiaries of Power Transmission & Controls Group

U.S.A. Capital Foundation Web Site	Sumitomo Machinery Corporation of America US\$7,723 thousand June 1966 http://www.sumitomodrive.com/
Germany Capital Foundation Web Site	Sumitomo (SHI) Cyclo Drive Germany GmbH DM12 million June 1976 http://www.sumitomodrive.com/
China Capital Foundation Web Site	Sumitomo (SHI) Cyclo Drive China, Ltd. RMB87,000 thousand December 1994 http://www.sumitomodrive.com/
China Capital Foundation Web Site	Sumitomo Heavy Industries (Tangshan), Ltd. RMB498,761 thousand December 2007 http://www.sumitomodrive.com/
Singapore Capital Foundation Web Site	Sumitomo (SHI) Cyclo Drive Asia Pacific Pte. Ltd. S\$3000 thousand September 1995 http://www.sumitomodrive.com/
Vietnam Capital Foundation Web Site	Sumitomo Heavy Industries (Vietnam) co.,Ltd. VNC 186 million October 2005 http://www.sumitomodrive.com/
Canada Capital Foundation Web Site	SM-Cyclo of Canada, Ltd. CA\$10 thousand June 1984 http://www.sumitomodrive.com/
Brasil Capital Foundation Web Site	Sumitomo Industries Pesadas do Brasil Ltda. BRL130 million July 2010 http://www.sumitomodrive.com/
Taiwan Capital Foundation Web Site	Tatung SM-Cyclo Co., Ltd. NT\$75 million April 1996 http://sm-cyclo.tatung.com.tw/
Korea Capital Foundation Web Site	Sumitomo (SHI) Cyclo Drive Korea, Ltd. Won1,000 million April 1997 http://www.sumitomodrive.com/