



Products [1]

SMALL GEAR MOTORS 6W-90W

The PTC-Group has an extensive lineup of small gear motors of 90 watts or less.

The most common gear motor is the parallel type ASTERO™ gear motor.

The motor and gear head are sold separately, so customers can freely create their own combinations. Customers can choose a combination that suits their needs from a wide variation of motors.

The HYPONIC® gear motor is a high-efficiency, high-torque gear motor that uses a hypoid gear.

It has a compact, high output design with no torque limitations up to a reduction ratio of 1/200.

Another important aspect is that hypoid gears are very quiet.

ALTAX® gear motors are very strong motors that utilize the Cyclo® gear mechanism.

They are ideal for operating in conditions requiring durability.

PARALLEL



ASTERO™ GEARMOTOR

Power 6W-90W
 Ratio 1/3-1/200
 Motor Induction (Single Phase,
 Type Three Phase)
 Reversible
 Brake
 Speed Control
 CE UL
 Inter Decimal Gearhead
 (1/10)

IN-LINE



ALTAX® GEARMOTOR

Power 40W-90W
 Ratio 1/6-1/51
 Motor Induction (Single Phase,
 Type Three Phase)
 Reversible
 Brake
 Speed Control (Inverter)

RIGHT ANGLE



HYPONIC® DRIVE

Power 15W-90W
 Ratio 1/3-1/240
 Motor Induction (Single Phase,
 Type Three Phase)
 Reversible
 Brake
 Speed Control (Inverter)
 IP65



GEAR MOTORS 0.1-2.2kW

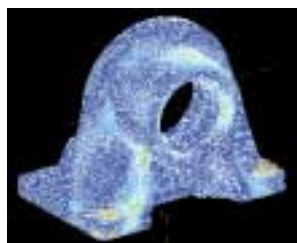
IN-LINE	RIGHT ANGLE	PARALLEL
		
 ALTAx[®] α GEARMOTOR	 HYPONIC GEARMOTOR	 PREST[®] GEARMOTOR C series (For Parking System)
Power 90W~2.2kW Ratio 1/3~1/1003 Motor Induction (Single Phase, Three Phase) Type Phase) Brake Inverter Motor Out Door Safety Increased	Power 90W~5.5kW Ratio 1/5~1/1440 Motor Induction (Single Phase, Three Phase) Type Phase) Brake Inverter Motor Out Door Safety Increased	Power 0.75kW~5.5kW Ratio 1/40~1/150 Motor Induction (Single Phase, Three Phase) Type Phase) Brake (Standard) Out Door

The PTC-Group 0.1kW to 2.2kW class small gear motors of in-line and right-angle type are leaders in the industry.

The in-line ALTAx[®] α gear motor is created for compact size and uses the Cyclo[®] gear mechanism. Its casing has both strength and compact size due to the use of three-dimensional CAD stress analysis. The Cyclo[®] gear mechanism offers toughness and long life in gear motors.

The right-angle HYPONIC DRIVE[®] NEO series gear motor is a high-efficiency, low noise gear motor that uses a hypoid gear. It achieves operating efficiency that is several tens of percent higher than the general worm reduction mechanism. Compared with conventional HYPONIC motors, this series offers optimum design and much more compact size.

The PREST[®]-C gear motor is designed for use in mechanical multi-story parking facilities. With operation in residential areas in mind, this gear motor is designed for extremely low operating and braking noise. The radial load has been increased and the casing width decreased. This was done in order for easier design of multilevel parking facilities.









Casing Designed for ALTAx[®] α

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

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.



IN-LINE	PARALLEL	RIGHT ANGLE
		
 CYCLO® DRIVE 6000 series	  HELICAL BUDDYBOX®	  BEVEL BUDDYBOX®
Power 0.1kW~132kW	Power 0.1W~30kW	Power 0.1kW~30kW
Ratio 1/6~1/1000000	Ratio 1/11~1/26500	Ratio 1/11~1/26500
Motor Induction (Three Phase)	Motor Induction (Three Phase)	Motor Induction (Three Phase)
Type Brake	Type Brake	Type Brake
Inverter Motor	Inverter Motor	Inverter Motor
Safety Increased	Safety Increased	Safety Increased
Explosion Proof	Explosion Proof	Explosion Proof
Outdoor	Outdoor	Outdoor
Special Voltage	Special Voltage	Special Voltage
Special Insulation Class	Special Insulation Class	Special Insulation Class
CSA NEMA	CSA NEMA	CSA NEMA

Products [2]

CYCLO® DRIVE 0.1kW-132kW

Ever since it first went on sale 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 a epitrochoidal parallel curve in the outer gear has been adopted, the gear engagement ratio is very high, to eliminate the risk of tooth breakage and greatly raising the reliability of the reducer.

Further more, 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 normal involute gears are used.

The very high reduction ratio of 1/9251 to 1/658503 for the three-stage type, impossible with normal 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 has helped to further reduce noise.

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

These are Cyclo® Drives used for precision control.

They combine the high strength and impact resistance of Cyclo® Drive 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.

The FC-A, F1C-A and F2C-T series are available to suit different types of applications.

The LB series Cyclo Drive can be directly connected to general-purpose servo motors.

There are standard backlash models and low 0.1° backlash models.


The IB series low backlash reduction gears use a Sumitomo-unique planetary gear mechanism.

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.



IN-LINE



 CYCLO® DRIVE for precision control

FC-A, F1C-A, F2C-A Series

Torque 111N · m~5140N · 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-T Series

Torque 167N · m~4415N · m

Ratio 1/81~1/171

Lost Motion 0.5min

Output shaft F2C-T : with Taper Roller
Bearing

IN-LINE



 CYCLO® DRIVE LB Series

Low Backlash Servo Cyclo Reducers

Torque 30N · m~630N · m

Ratio 1/11~1/29

Backlash 0.1°

Input shaft Hollow high speed

Shaft for Servo motors

IN-LINE



IB Series P Type

Reducer for Servo motors

Torque 15N · m~127N · m

Ratio 1/5~1/45

Backlash P Type 3min, 10min

Products [3]

SPEED REDUCERS

Sumitomo Heavy Industries 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 has 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 new 9000 series right-angle models allow direct motor mounting.

This eliminates the need for coupling and simplifies motor installation, enabling more compact design.

The HEDCON® worm gear speed reducer is based on the unique dual contact theory, which creates a high-efficiency, high-strength worm reduction mechanism.

A high-precision series featuring low backlash is also available.


The COMPOWER® model's planetary gear utilizes a unique isosteric mechanism combined with high-precision carburized ground gears. The result is a compact and powerful planetary gear speed reducer.

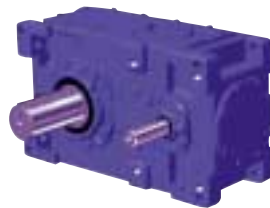
This series includes the very large 75,000kgf-m class model.

IN-LINE





 **COMPOWER®**
PLANETARY SPEED REDUCER

Torque 1.47~736kN · m
Ratio 1/5~1/1768
Type · Standard
· with CYCLO® DRIVE 

PARALLEL
RIGHT ANGLE

 **PARAMAX® 9000**

Torque 2.6~552kN · m
Ratio 1/6.3~1/500
Type · Parallel
· Right Angle
· Right Angle Drive Unit

 PARAMAX applied products
SAV Series for Elevators
SAS Series for Escalator
SAE Series for Extruder
SG Series for Flood Gate
 SAF Series for Cooling Fan

RIGHT ANGLE



 **HEDCON®**
WORM GEAR SPEED REDUCER

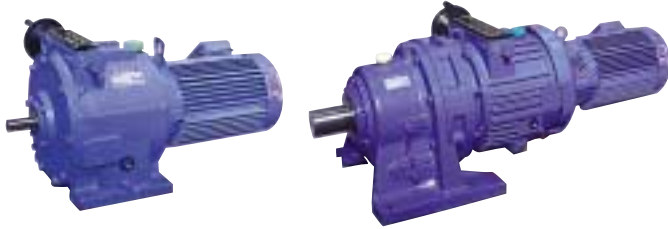
Torque 589~82,400N · m
Ratio 1/5~1/100
Type · Standard
· A Series (Precision)
· with CYCLO® DRIVE
· CRG, CRH Series

NEW DESIGN CONCEPT OF PARAMAX® 9000



SPEED CONTROL

MECHANICAL



BEIER® VARIATOR BEIER CYCLO® VARIATOR

A type

Power	0.2kW~150kW
Speed range	1:4
Torque	Intermediate Charecterictic 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 Charecterictic between torque constant and power constant

ELECTRICAL (AC INVERTER)



AC INVERTER SF320, HF320 Series

SF320

Power	0.2kW~7.5kW (200V class) 0.4kW~7.5kW (400V class)
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Speed control V/F

HF320

Power	0.2kW~7.5kW (200V class) 0.4kW~7.5kW (400V class)
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Speed control Sensorless Vector Control

High starting torque
200% of rated motor torque

ELECTRICAL (AC INVERTER)



AC INVERTER HF430 Series

HF430

Power	5.5kW~55kW (200V class) 5.5kW~55kW (400V class)
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Speed control Sensorless Vector Control

High starting torque
200% of rated motor torque

Sumitomo Heavy Industries offers two types of speed control drives. One is a mechanical series and the other an electrical series.

The electrical series includes the AC inverter that is now widely used, an AF motor specifically designed for that AC inverter and an IV-DRIVE, which combines the AC inverter and motor.

Sumitomo Heavy Industries 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 50 year history and sales of 700,000 units, is provided as a stepless variable speed reducer.

The Beier Cyclo® Variator, which combines Cyclo Drive, is provided as a variable speed reducer.

The key characteristics of this series are a choice of constant horsepower or a combination of constant horsepower and torque, which offers especially high torque in the low-speed range.



International Operations [1]

North America+South America

U.S.A

★ **Sumitomo Machinery Corporation of America (SMA)**
Headquarters: Chesapeake
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 Time Difference GMT-5

● **SMA Branch Chicago Office**
 Address: 175 West Lake Drive, Glendale Heights, IL 60139
 Tel: (1) 630-752-0200 Fax: (1) 630-752-0208
 Time Difference GMT-6

● **SMA Branch Los Angeles Office**
 Address: 2375 Railroad St., Corona, CA 92880
 Tel: (1) 909-340-4100 Fax: (1) 909-340-4108
 Time Difference GMT-8

● **SMA Branch Dallas Office**
 Address: 1420 Halsey Way #130 Carrollton, TX 75007
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 Time Difference GMT-6

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 Tel: (1) 757-485-3355 Fax: (1) 757-487-3193

Mexico

● **SM-Cyclo De Mexico, S.A. de C.V. (SMME)**
Headquarters: Monterrey
 Address: Calle "C" No. 506A Parque Industrial Almacenro Apodaca, N. L., Mexico 66600
 Tel: (52) 8-369-3697 Fax: (52) 8-369-3699
 Time Difference GMT-7

Brazil

● **SM-Cyclo Redutores Do Brazil, Ltda. (SMBR)**
Headquarters: Sao Paulo
 Address: Av. Dr. Ulysses Guimaraes, 3533 09990-080, Diadema Sao Paulo, Brazil
 Tel: (55) 11-4071-4388 Fax: (55) 11-4071-2922
 Time Difference GMT-3

Argentina

● **SM-Cyclo De Argentina S.A. (SMAR)**
Headquarters: Buenos Aires
 Address: Montes de Oca #6719, (B1606BMG) Munro, Buenos Aires, Argentina
 Tel: (54) 11-4765-5332 Fax: (54) 11-4765-5517
 Time Difference GMT-3

Chile

○ **SM-Cyclo De Chile, Ltda. (SMCH)**
Headquarters: Santiago
 Address: Napoleon 3565 of 510-Las Condes, Santiago, Chile
 Tel: (56) 2-203-7300 Fax: (56) 2-203-7195
 Time Difference GMT-4

Canada

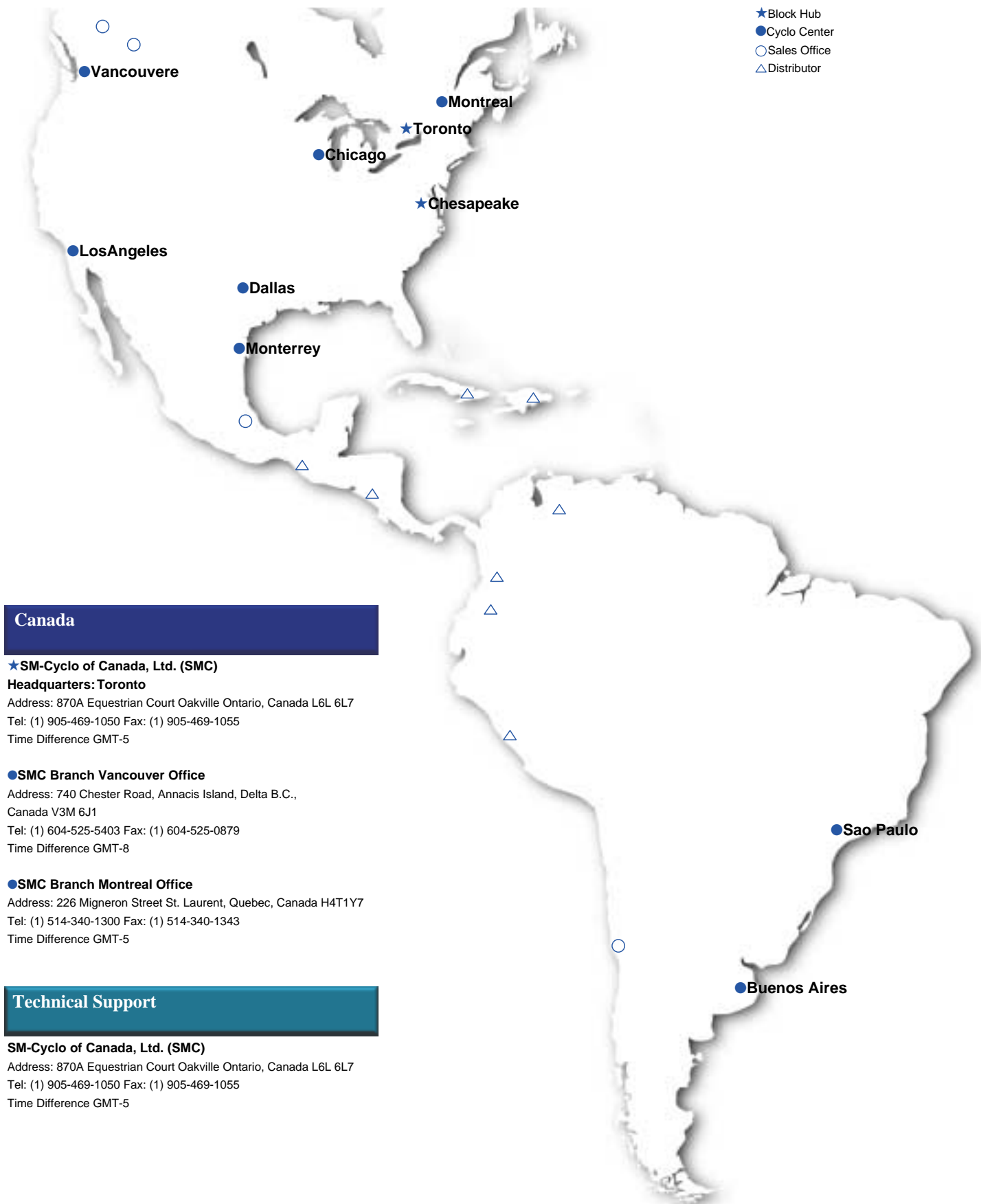
★ **SM-Cyclo of Canada, Ltd. (SMC)**
Headquarters: Toronto
 Address: 870A Equestrian Court Oakville Ontario, Canada L6L 6L7
 Tel: (1) 905-469-1050 Fax: (1) 905-469-1055
 Time Difference GMT-5

● **SMC Branch Vancouver Office**
 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

● **SMC Branch Montreal Office**
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International Operations [2]

Europe

United Kingdom

★ Sumitomo (SHI) Cyclo Drive Europe, Ltd. (SCE)

Headquarters: Hull

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● SM-Cyclo U.K. Ltd. (SMUK)

Headquarters: Hull

Address: Marfleet, Kingston upon Hull HU9 5RA, United Kingdom
Tel: (44) 1482-790340 Fax: (44) 1482-790321
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France

● SM-Cyclo France E.U.R.L. (SMFR)

Headquarters: Paris

Address: 65/75 Avenue Jean Mermoz F-93120 La Courneuve France
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Italy

● SM-Cyclo Italy Srl (SMIT)

Headquarters: Milano

Address: Via dell' Artigianato 23 20010 Cornaredo (Mi), Italy
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Netherlands

● SM-Cyclo Benelux BV (SMBE)

Headquarters: Eindhoven

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Tel: (31) 495599777 Fax: (31)495593177
Time Difference GMT+1

Sweden

● SM-Cyclo Scandinavia AB (SMSC)

Headquarters: Malmö

Address: Företagsvägen 30A S-232 37 Arlöv, Sweden
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Spain

● SM-Cyclo Iberia, S.L. (SMIB)

Headquarters: Valencia

Address: Pol. Ind. C/En Proyecto No.29, Parc. 66, Nave B 46470 Catarroja (Valencia) Spain
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Time Difference GMT+1

Switzerland

● SM-Cyclo Switzerland AG (SMSW)

Headquarters: Zurich

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Belgium

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Germany

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● SCG Branch Hannover Office

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Time Difference GMT+1

Austria

○ SCG Branch Austria Office

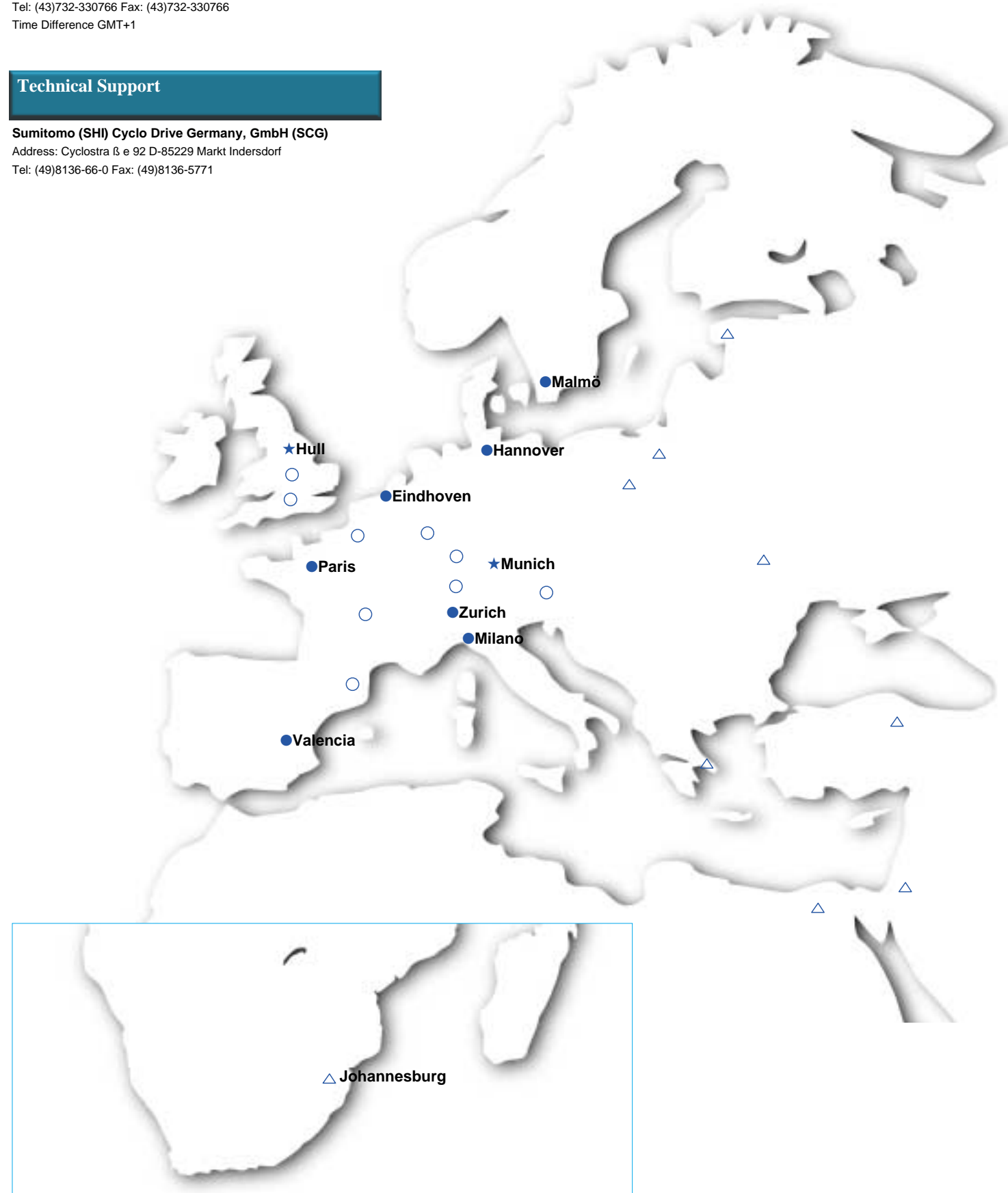
Address: Weinheberstra ß e 9 A-4020 Linz, Austria
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Technical Support

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- ★ Block Hub
- Cyclo Center
- Sales Office
- △ Distributor



International Operations [3]

Asia+Oceania

China

★Sumitomo (SHI) Cyclo Drive China, Ltd. (SCT)

Headquarters: Tianjin

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○SCT Branch Beijing Office

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○SCT Branch Shanghai Office

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Road, Shanghai, China Post Code:20041
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Time Difference GMT+8

●Shanghai Cyclo Center

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Time Difference GMT+8

Technical Support

Sumitomo (SHI) Cyclo Drive China, Ltd. (SCT)

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Tianjin
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Taiwan

☆Tatung SM-Cyclo Co., Ltd. (TSC)

Headquarters: Taipei

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Tel: (886)2-2595-7275 Fax: (886) 2-2595-5594

Plant: San-Hsia

Address: 352 Shi-Tong Road., San-Hsia, 237, Taipei County, Taiwan, R.O.C.
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Korea

★SM-Cyclo of Korea Co., Ltd. (SCK)

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Plant: Incheon

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Australia

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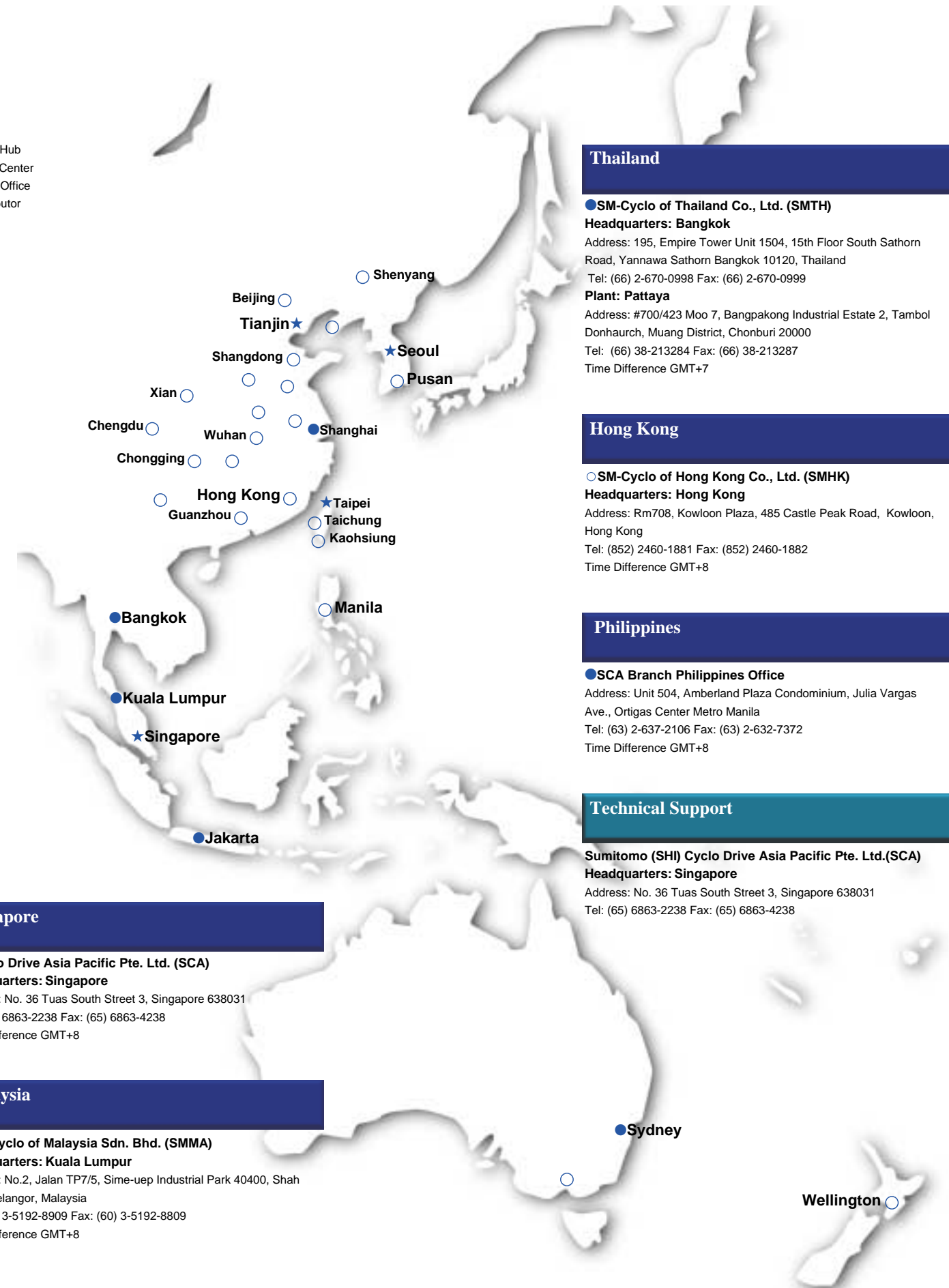
Time Difference GMT+10

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SM-Cyclo of Australia Pty., Ltd. (SMAU)

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- ★Block Hub
- Cyclo Center
- Sales Office
- △Distributor



Thailand

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Plant: Pattaya

Address: #700/423 Moo 7, Bangpakong Industrial Estate 2, Tambol
Donhaurch, Muang District, Chonburi 20000
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Time Difference GMT+7

Hong Kong

○SM-Cyclo of Hong Kong Co., Ltd. (SMHK)

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Time Difference GMT+8

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●SCA Branch Philippines Office

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Time Difference GMT+8

Technical Support

Sumitomo (SHI) Cyclo Drive Asia Pacific Pte. Ltd.(SCA)

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Singapore

★Cyclo Drive Asia Pacific Pte. Ltd. (SCA)

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●SM-Cyclo of Malaysia Sdn. Bhd. (SMMA)

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Time Difference GMT+8



International Operation [4]

Japan

Japan

★Sumitomo Heavy Industries, Ltd.

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Time Difference GMT+9
Web Site <http://www.shi.co.jp/ptc/>

○Sales Office

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Sendai
Saitama
Tokyo
Yokohama
Shizuoka
Nagoya
Kanazawa
Osaka
Kobe
Takamatsu
Niihama
Okayama
Hiroshima
Kita Kyushu
Fukuoka

★Nagoya Plant

Address: 1,Asahi-machi 6-chome,Ohbu-shi, Aichi 474-8501,Japan
TEL: (81)-562-48-5218 FAX: (81)-562-48-8947
Time Difference GMT+9

Products: CYCLO DRIVE, BEIER VARIATOR,RHYTAX,
BUDDYBOX, Motors, Inverters

★Okayama Gearbox Plant

Address: 8230,Tamashima-Otoshima,Kurashiki-shi,Okayama,
713-8501,Japan
TEL: (81)-86-525-6341 FAX: (81)-86-525-6315
Time Difference GMT+9

Products:PARAMAX, COMPOWER, HEDCON

★Okayama Gearmotor Plant

Address: 8230,Tamashima-Otoshima,Kurashiki-shi,Okayama,
713-8501,Japan
TEL: (81)-86-525-6194 FAX: (81)-86-525-6124
Time Difference GMT+9

Products: ALTAX, HYPONIC

★Astero Business center

Address: 1,Asahi-machi 6-chome,Ohbu-shi, Aichi 474-8501,Japan
TEL: (81)-562-48-5139 FAX: (81)-562-48-5238
Time Difference GMT+9

Products: Astero



Nagoya Plant



Okayama Plant

GENERAL INFORMATION

■ Company Name

◆ Sumitomo Heavy Industries, Ltd.

■ Foundation	November 20, 1888
■ Establishment	November 1, 1934
■ President	Yoshio Hinoh
■ Head Office	9-11, Kita-Shinagawa 5-chome, Shinagawa-ku, Tokyo 141-8686, Japan
■ Capital	¥30,871,650,000 (as of 31st March, 2001)
■ Employees	12,411 (consolidated) 4,699 (non-consolidated) (as of 31st March, 2001)
■ Net Sales	¥513,753million (consolidated) ¥305,610million (non-consolidated)
■ Web Site	http://www.shi.co.jp/ptc/
■ TEL.	Tokyo (81)-3-5488-8363 Osaka (81)-3-5488-8355

Subsidiaries of Power Transmission & Controls Group

U.S.A. Capital Foundation Web Site	Sumitomo Machinery Corporation of America (SMA) US\$7,723 thousand June 1966 http://www.smcyclo.com/
Germany Capital Foundation Web Site	Sumitomo (SHI) Cyclo Drive Germany,GmbH DM12 million June 1974 http://www.smcycuro.com/
China Capital Foundation Web Site	Sumitomo (SHI)Cyclo Drive China,Ltd. RMB87,000 thousand December 1994 http://www.cyclodrive.com/chine/
Singapore Capital Foundation	Sumitomo (SHI) Cyclo Drive Asia Pacific Pte.,Ltd S\$3000 thousand September 1995
Canada Capital Foundation	SM-Cyclo of Canada,Ltd. CA\$10 thousand September 1993
Taiwan Capital Foundation	Tatung SM-Cyclo Co.,Ltd. NT\$75 million April 1996
United Kingdom Capital Foundation Web Site	Sumitomo (SHI) Cyclo Drive Europe,Ltd. £6400 thousand December 1996 http://www.smcycuro.com/
Korea Capital Foundation Web Site	SM-Cyclo of Korea Co.,Ltd. Won1,000 million April 1997 http://www.sck.co.kr/
Japan Capital Foundation Web Site	Osaka Chain & Machinery, Ltd. ¥841 million 1916.9 http://www.seisa.co.jp
Japan Capital Foundation Web Site	Seiki-Kogyosho,Ltd. ¥150 million June 1939 http://www.skkgm.co.jp
Japan Capital Foundation Web Site	Sumitomo Heavy Industries PTC Sales Co.,Ltd. ¥200 million July 1997 http://www.sumiju.co.jp
Japan Capital Foundation	Sumiju Tomita Machinery Co.,Ltd. ¥200 million May 1953

