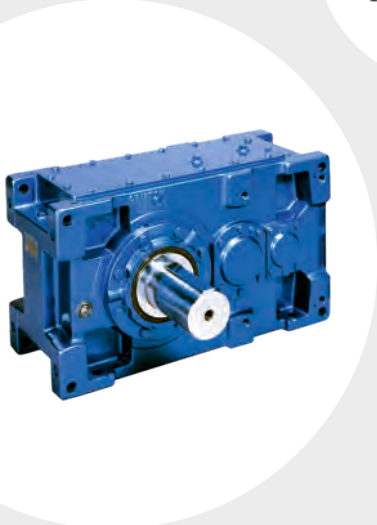


PRODUCT PROFILE



COMPACT GEARMOTORS AND REDUCERS



ASTERO® Gear Motors

Power	: 6 - 90W	▪ Modular Gear Heads
Ratio	: 3/1 - 2,000/1	▪ Multiple Motor Types
Torque	: 0.01 - 19.6Nm	▪ Controller Options
		▪ Inline & Right angle



HYPONIC® Gearmotors, Reducers

Power	: 15 W - 11 kW	▪ High Efficiency
Ratio	: 3/1 - 1,440/1	▪ Maintenance Free
Torque	: 0.3 - 1,233 Nm	▪ Greased for Life
		▪ Light-weight, Compact



PREST® NEO Gearmotors, Reducers

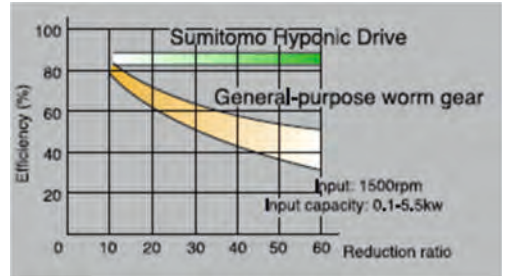
Power	: 40 W - 2.2 kW	▪ High Efficiency
Ratio	: 3/1 - 200/1	▪ Maintenance Free
Torque	: 1.8 - 1,230 Nm	▪ Greased for Life
		▪ Light-weight, Compact



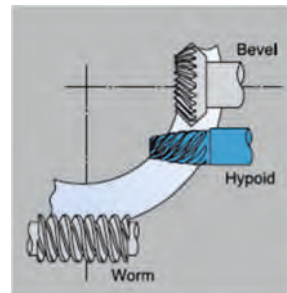
PREST® NEO Shaft mount Gearmotors

Power	: 0.1 kW - 2.2 kW	▪ High Efficiency
Ratio	: 15/1 - 50/1	▪ Maintenance Free
Torque	: 14 - 210 Nm	▪ Greased for Life
		▪ Light-weight, Compact

Saving Energy with Hyponic®



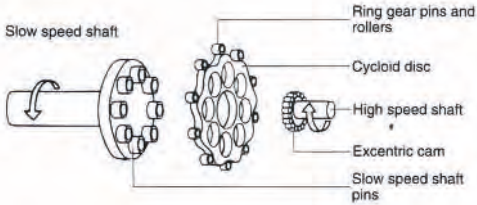
- Higher efficiency than worm gears
- Maintenance free grease lubrication
- Higher ratios than bevel gears
- Triple-lip seals
- Food Grade lubrication Option
- Compact and low cost solutions



Unique Hypoid Technology for right angle power transmission.

CYCLO® DRIVE GEARMOTORS AND REDUCERS

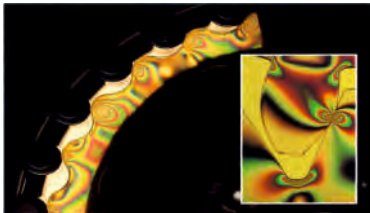
The Cyclo® Story



Cyclo® Drive uses epitrochoidal design resulting in torque dense and highly efficient power transmission.

Cyclo® Drive was invented by Lorenz Branan of Germany who collaborated with Sumitomo Heavy Industries, Japan for improved design and manufacturing.

Eventually Sumitomo acquired 100% ownership of the design and the company.



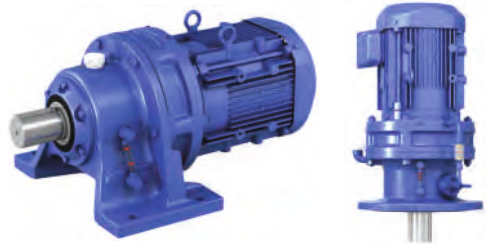
Unique gearless design of Sumitomo Cyclo® Drive ensures 500% intermittent shock load capacity



ALTAx® NEO Gearmotors, Reducers

Power : 40 W - 2.2 kW
Ratio : 3/1 - 1003/1
Torque : 1.5 - 1,230 Nm

- Cyclo® Technology
- Maintenance Free
- Greased for Life
- Light-weight, Compact



CYCLO® Drive Gearmotors, Reducers

Power : 0.1 kW -132 kW
Ratio : 2.5 -1,000,000/1
Torque : 24 - 68,000 Nm

- Cyclo® Technology
- Torque Dense
- High Efficiency
- High ratio in single stage



BEVEL BUDDYBOX® Gearmotors, Reducers

Power : 0.1 kW - 55 kW
Ratio : 11/1 - 26,600/1
Torque : 290 -17,400 Nm

- Bevel Gear with Cyclo®
- Versatile mounting
- Ductile Iron Housing
- For high shock application



HELICAL BUDDYBOX® Gearmotors, Reducers

Power : 0.1 kW - 30 kW
Ratio : 11/1 - 26,500/1
Torque : 108 - 8,650 Nm

- Helical with Cyclo®
- Versatile Mounting
- Torque Dense
- For rugged application

CONSTANT AND VARIABLE



I/320 Gearmotors with Integrated Inverter

Power	: 0.1 kW - 3.0 kW	▪ Integrated Inverter on motor
Ratio	: 3/1 - 73,500/1	▪ Inline and Right Angle
Torque	: 108-25,800 Nm	▪ Versatile Mounting



BEIER® VARIATOR Gearmotors, Reducers

Power	: 0.2 kW - 150 kW	▪ Mechanical Speed Variator
Ratio	: 2/1 - 100,000/1	▪ Viscous traction technology
Torque	: 0.5 - 68,000 Nm	▪ Adjustable speed controller
		▪ Power Constant or Torque Constant applications



BEVEL BUDDYBOX® H Gearmotors

Power	: 2.2 kW - 11 kW	▪ Bevel Helical Gears
Ratio	: 5/1 - 20/1	▪ Universal Mounting
Torque	: 72 - 1,450 Nm	▪ Maintenance Free
		▪ Grease Lubricated
		▪ Torque Dense



RHYTAX® Gearmotors, Reducers

Power	: 0.4 kW - 45 kW	▪ Bevel Helical Gears
Ratio	: 10/1 - 545/1	▪ Torque Dense, low noise
Torque	: 545 - 8,450 Nm	▪ Foot and Flange Mount
		▪ Solid Shaft, Hollow bore



HSM Shaft Mount Speed Reducers

Power	: 0.18 kW - 220 kW	▪ 25° pressure angle gears
Ratio	: 5/1 - 251	▪ Keyless Steel Taper-Grip® bushing option
Torque	: 256 - 44,501 Nm	▪ Suitable for harsh environment



HEDCON® Worm Reducers

Ratio	: 5/1 - 100/1	▪ Double Enveloping Single Worm
Torque	: 392 - 82,000 Nm	▪ Greater tooth contact
		▪ High Efficiency Worm

MOTION CONTROL DRIVES (LOW BACKLASH & ZERO BACKLASH)



CYCLO® 6000 Servo Gearboxes

Power	: 0.2kW - 9kW	▪ Cyclo® Drive
Ratio	: 6/1 - 87/1	▪ 500% Shock Load Capacity
Torque	: 29 - 1370Nm	▪ Keyed & keyless bores
Backlash	: 6 Arc Min	▪ Motor adaptors



FINE CYCLO A-Series, D- Series

Ratio	: 29/1 - 119/1	▪ Reduction Kits with options - with / without bearings, adaptors, etc.
Torque	: 149 - 7,613Nm	▪ Keyed & keyless bores
Lost Motion	: <1 arc min	▪ Multiple bearing options



IB Series Planetary Servo Gearboxes

Power	: 0.1kW - 5kW	▪ Planetary Drive
Ratio	: 5/1 - 45/1	▪ Compact, High Torque
Torque	: upto 5,250Nm	▪ Keyed & keyless bores
Backlash	: 3, 15 arc min	▪ Motor adaptors



FINE CYCLO® C-SERIES

Ratio	: 29/1 - 119/1	▪ Cyclo® Drive Design
Torque	: 1,080-12,000Nm	▪ Hollow through bore for cable entry
Lost Motion	: <1 arc min	▪ High capacity bearing
Hollow Bore	: 40 ~ 99mm	



IB Series Right angle Servo Gearboxes

Power	: 0.1kW - 5kW	▪ Planetary with Bevel
Ratio	: 6/1 - 243/1	▪ Compact, High Torque
Torque	: upto 500Nm	▪ Keyed & keyless bores
Backlash	: 6, 15 arc min	▪ Motor adaptors
		▪ Angular bearings for high load



FINE CYCLO® JA-Series

Ratio	: 60/1 - 283/1	▪ Cyclo® Drive Design
Torque	: 625 ~ 30000Nm	▪ Spur Gear on input
Lost Motion	: <0.5 arc min	▪ High Transmission accuracy
		▪ Fully integrated with robotic design



HANSEN M4ACC for Air Cooled Condensers

Ratio : 9/1 - 25/1
Torque : 20 kNm~70 Knm

- Dedicated Product for Air Cooled Condenser
- Motor Lantern for alignment-free connection
- High Torque Design
- Internal lubrication system



VERTICAL ROLLING MILL Gearboxes

Ratio : 20/1 - 681
Torque : Up to 4,817 kNm

- SEISA Technology of 27° pressure-angle gears
- Customizable, Light weight and robust
- Designed for long life operation



HANSEN P4 Helical and Bevel Gearboxes

Ratio : 3.55/1 - 630/1
Torque : 3 ~ 1100 kNm

- Dedicated Housing for all Horizontal applications
- Split Housings in 2,3,4 stages
- Robust, maintenance free sealing design



SEISA HIGH SPEED Gearboxes

Power : 0.1 kW - 1,500 kW
Ratio : 1.52 /1 - 32/1
Torque : 191 ~ 362 kNm

- Dedicated Housing for all Horizontal applications
- Split Housings in 2,3,4 stages
- Robust, maintenance free sealing design



HANSEN P4 VERTICAL Gearboxes

Ratio : 3.55/1 - 630/1
Torque : 3 ~ 1100 kNm

- Specific Vertical Housing
- Horizontally Split for easy maintenance
- High Torque Design
- Internal lubrication system
- Dry-well option available



SEISA Special Purpose Gearboxes

- Large and Special Purpose gearboxes for steel, paper, pump, turbines of any capacity
- Designed to customer's requirement
- Planetary, Helical and Bevel configurations

INDUSTRIAL GEARBOXES



COMPOWER® Planetary Gearboxes

Power : 0.1 kW - 1,500 kW ▪ 27° pressure-angle gears
 Ratio : 16/1 - 1,400/1 * ▪ Higher tooth strength
 Torque : ~ 736,000 Nm ▪ High shock load capacity
 * Ratio >10000 /1 available ▪ Foot and Flange Mt



PARAMAX® Helical & Bevel Gearboxes

Power : 3.7 kW - 3,700 kW ▪ 25° pressure-angle gears
 Ratio : 2.16/1 - 630/1 ▪ Higher tooth strength
 Torque : ~ 740,000 Nm ▪ Modular Split housing
 ▪ Horizontal / Vertical mt
 ▪ Multiple Options



PARAMAX® SFC Cooling Tower Gearboxes

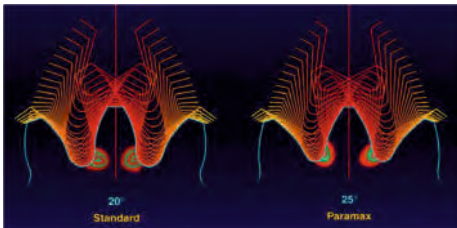
Ratio : 6.3/1 - 22.4/1 ▪ 25° pressure-angle gears
 Torque : 10 kNm ~ 44 kNm ▪ Optimized CT Gearboxes
 ▪ Vertical up or down shaft
 ▪ High Thermal Capacity
 ▪ High Radial Loads



PARAMAX® SEB Extruder Gearboxes

Ratio : 8/1 - 18/1 ▪ 25° pressure-angle gears
 Torque : 1.3 ~ 36.3 kNm ▪ Dedicated Extruder Drive
 ▪ High thrust load capacity
 ▪ Withstands high impact loads.

PARAMAX® SUPERIOR GEAR TECHNOLOGY FOR HIGH TORQUE TRANSMISSION



- Paramax® gears are designed with 25° pressure-angle, which provide tooth profile with larger dedendum.
- This translates into higher tooth strength and greater shock load capacity.
- Paramax® gears are also designed with 14° Helix Angle for larger tooth contact, smooth and lower noise.



- Special Application & Customisable Gearboxes
- Bulk Material Handling
 - Crane and Hoist
 - Cement
 - Irrigation and Dams
 - Mining and Minerals
 - Power Generation
 - Plastic and Rubber
 - Steel and Metals
 - Sugar and Grain
 - Waste Water Treatment