Sumitomo Americas Product Configurator:
www.sumitomodrive.com/Configurator

Trying to select a drive? Need more technical specifications? Need pricing? Sumitomo Drive Technologies' online product Configurator streamlines the selection process, enabling you to build our power transmission products for your specific application.

Available 24 hours a day, 7 days a week, registered users quickly receive results that include:
- Downloadable 2D and 3D CAD files
- Product Literature
- Technical Specification Sheet
- Product Ratings
- Request for Quote*
- Quotations*

This unique interactive tool is one more reason Sumitomo Drive Technologies is the world's premier power transmission and control solutions provider.

*Not available for all markets

Cyclo® 6000 series
www.smcyclo.com/Cyclo6000
www.sumitomodrive.com

Brochure 04.601.51.006; Supersedes Brochure 04.601.51.005

For facilities located in the Americas, please visit www.smcyclo.com/locations
For worldwide locations, please visit www.smcyclo.com/worldwide
Tel: 1-800-SM-CYCLO

©2013 Sumitomo Machinery Corporation of America  Printed in USA

Cyclo® Technology: Unparalleled Performance

Proven in millions of installations worldwide, Sumitomo's unique Cyclo® technology offers quiet, efficient and reliable operation with high torque density and compact size:

- Cycloidal "Gearless" Speed Reduction
- Torque transmitting parts roll, rather than grind, providing quiet, efficient and reliable performance
- Superior Materials
- 52100 bearing grade steel rotating components, hardened to 58 Rockwell C for unmatched durability and reliability
- Long Life and High Shock Load Capacity
- The Cyclo® input has two-thirds of its reduction components in contact at all times, resulting in exceptionally rugged, shock resistant performance

Sumitomo Standard 24-month Warranty
Our standard warranty is unlimited by hours of operation

Conveyors
Sawmills and Wood Mills
Food and Beverage Machinery
Wastewater Treatment
Steel Mills
Automotive Plants
Construction Equipment
Recycling Machines
Paper Mills
Poultry Plants
Processing Plants
Mixers

Cyclo® 6000 Applications

Cyclo® 6000
Highly Reliable, Torque Dense Cycloidal Speed Reducers and Gearmotors
6000 Series

Configure your Cyclo® 6000 today at www.sumitomodrive.com/Configurator

Cyclo® 6000
Sumitomo Machinery Corporation of America (SMA) is a subsidiary of Sumitomo Heavy Industries (SHI), the global leader in power transmission knowledge and innovation.

SMA began its operations in 1966 with a workforce of ten people and an assembly facility of 5,000 ft² (465 m²). Today, our corporate headquarters in Chesapeake, VA (USA), combined with our strategic satellite locations throughout North, Central and South America occupy more than 500,000 ft² (46,500 m²) of office and manufacturing space. We ship thousands of drive products every month, adding to our North and South American installed base of more than five million units. SMA is committed to providing Quality at Every Stage.
Cyclo® 6000 Series

Highly Reliable, Torque Dense Cycloidal Speed Reducers and Gearmotors

Exceptional Performance

Superior Steel Components

Cycloidal Speed Reduction Technology
Quiet, efficient and reliable operation with high torque density and compact size

Modular Design
Interchangeable cast iron housings in foot, flange or face mounting configurations

Universal Mounting Arrangements Available in shaft, split flange shaft, C-face, shoe base, and top-mount inputs

Superior Steel Components Internal components hardened from hardened, vacuum degassed, bearing grade steel provide exceptional reliability, low noise, low backlash and extended operational life

Exceptional Performance Designed to withstand shock loads exceeding 100% of their ratings, backed by standard 24 month warranty

Cyclo® 6000 Series Frame Size Details

<table>
<thead>
<tr>
<th>Frame Size</th>
<th>Output Torque (kW)</th>
<th>Input Power (kW)</th>
<th>Solid Shaft Bore Diameter (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>606S</td>
<td>70,400 (8000)</td>
<td>70 (5.5)</td>
<td>1.20 (38)</td>
</tr>
<tr>
<td>616S</td>
<td>885 (100)</td>
<td>1 (.75)</td>
<td>0.875 (22)</td>
</tr>
<tr>
<td>6175</td>
<td>531 (60)</td>
<td>1/2 (.4)</td>
<td>0.75 (18)</td>
</tr>
<tr>
<td>6185</td>
<td>266 (30)</td>
<td>1/3 (.25)</td>
<td>0.5 (14)</td>
</tr>
<tr>
<td>6195</td>
<td>18,600 (2100)</td>
<td>30 (22)</td>
<td>2.25 (60)</td>
</tr>
<tr>
<td>6215</td>
<td>12,200 (1380)</td>
<td>20 (15)</td>
<td>1.875 (50)</td>
</tr>
<tr>
<td>6225</td>
<td>70,400 (8000)</td>
<td>70 (5.5)</td>
<td>1.20 (38)</td>
</tr>
<tr>
<td>6235</td>
<td>228,000 (25765)</td>
<td>75 (5.5)</td>
<td>1.75 (56)</td>
</tr>
<tr>
<td>6245</td>
<td>381,000 (43280)</td>
<td>75 (5.5)</td>
<td>2.25 (60)</td>
</tr>
<tr>
<td>6255</td>
<td>536,000 (60570)</td>
<td>75 (5.5)</td>
<td>2.75 (70)</td>
</tr>
<tr>
<td>6265</td>
<td>624,000 (70570)</td>
<td>75 (5.5)</td>
<td>3.25 (80)</td>
</tr>
<tr>
<td>6275</td>
<td>681,000 (76470)</td>
<td>75 (5.5)</td>
<td>3.85 (100)</td>
</tr>
</tbody>
</table>

Motor Options

Integral Motors
Exceptionally compact, low inertia three phase motors. Inverter ready

Brake Motors
Amusingly durable, fast acting spring set electrically released brakes

C-Face Motors
Numerous versions available

Input Options

Free-Shaft

V-Flange

C-Face Quill

C-Face Adapter

Gearmotor

Shovel Base

Top-Motor Mount

Dependable Housing Designs

Hardened Steel Internal Components

All housing components are fully hardened, vacuum degassed bearing grade steel for consistent, reliable performance

Unmatched, Spur-Saving Design

High powered density, all reduction contained in compacting gear housing

Superior Seal Designs

Pressure-rated seals, wear sleeves and back-up rings prevent leaks

Dynamic Oil Level Indicator

Compliant, oil level change for simple, visible lubrication indication

Hardened Steel Internal Components

All housing components are fully hardened, vacuum degassed bearing grade steel for consistent, reliable performance

Dependable Housing Designs

High powered density, all reduction contained in compacting gear housing

Superior Seal Designs

Pressure-rated seals, wear sleeves and back-up rings prevent leaks

Dynamic Oil Level Indicator

Compliant, oil level change for simple, visible lubrication indication

Hardened Steel Internal Components

All housing components are fully hardened, vacuum degassed bearing grade steel for consistent, reliable performance

Dependable Housing Designs

High powered density, all reduction contained in compacting gear housing

Superior Seal Designs

Pressure-rated seals, wear sleeves and back-up rings prevent leaks

Dynamic Oil Level Indicator

Compliant, oil level change for simple, visible lubrication indication

Hardened Steel Internal Components

All housing components are fully hardened, vacuum degassed bearing grade steel for consistent, reliable performance

Dependable Housing Designs

High powered density, all reduction contained in compacting gear housing

Superior Seal Designs

Pressure-rated seals, wear sleeves and back-up rings prevent leaks

Dynamic Oil Level Indicator

Compliant, oil level change for simple, visible lubrication indication

Hardened Steel Internal Components

All housing components are fully hardened, vacuum degassed bearing grade steel for consistent, reliable performance

Dependable Housing Designs

High powered density, all reduction contained in compacting gear housing

Superior Seal Designs

Pressure-rated seals, wear sleeves and back-up rings prevent leaks

Dynamic Oil Level Indicator

Compliant, oil level change for simple, visible lubrication indication

Hardened Steel Internal Components

All housing components are fully hardened, vacuum degassed bearing grade steel for consistent, reliable performance

Dependable Housing Designs

High powered density, all reduction contained in compacting gear housing

Superior Seal Designs

Pressure-rated seals, wear sleeves and back-up rings prevent leaks

Dynamic Oil Level Indicator

Compliant, oil level change for simple, visible lubrication indication

Hardened Steel Internal Components

All housing components are fully hardened, vacuum degassed bearing grade steel for consistent, reliable performance

Dependable Housing Designs

High powered density, all reduction contained in compacting gear housing

Superior Seal Designs

Pressure-rated seals, wear sleeves and back-up rings prevent leaks

Dynamic Oil Level Indicator

Compliant, oil level change for simple, visible lubrication indication

Hardened Steel Internal Components

All housing components are fully hardened, vacuum degassed bearing grade steel for consistent, reliable performance

Dependable Housing Designs

High powered density, all reduction contained in compacting gear housing

Superior Seal Designs

Pressure-rated seals, wear sleeves and back-up rings prevent leaks

Dynamic Oil Level Indicator

Compliant, oil level change for simple, visible lubrication indication

Hardened Steel Internal Components

All housing components are fully hardened, vacuum degassed bearing grade steel for consistent, reliable performance

Dependable Housing Designs

High powered density, all reduction contained in compacting gear housing

Superior Seal Designs

Pressure-rated seals, wear sleeves and back-up rings prevent leaks

Dynamic Oil Level Indicator

Compliant, oil level change for simple, visible lubrication indication

Hardened Steel Internal Components

All housing components are fully hardened, vacuum degassed bearing grade steel for consistent, reliable performance

Dependable Housing Designs

High powered density, all reduction contained in compacting gear housing

Superior Seal Designs

Pressure-rated seals, wear sleeves and back-up rings prevent leaks

Dynamic Oil Level Indicator

Compliant, oil level change for simple, visible lubrication indication

Hardened Steel Internal Components

All housing components are fully hardened, vacuum degassed bearing grade steel for consistent, reliable performance

Dependable Housing Designs

High powered density, all reduction contained in compacting gear housing

Superior Seal Designs

Pressure-rated seals, wear sleeves and back-up rings prevent leaks

Dynamic Oil Level Indicator

Compliant, oil level change for simple, visible lubrication indication

Hardened Steel Internal Components

All housing components are fully hardened, vacuum degassed bearing grade steel for consistent, reliable performance

Dependable Housing Designs

High powered density, all reduction contained in compacting gear housing

Superior Seal Designs

Pressure-rated seals, wear sleeves and back-up rings prevent leaks

Dynamic Oil Level Indicator

Compliant, oil level change for simple, visible lubrication indication

Hardened Steel Internal Components

All housing components are fully hardened, vacuum degassed bearing grade steel for consistent, reliable performance

Dependable Housing Designs

High powered density, all reduction contained in compacting gear housing

Superior Seal Designs

Pressure-rated seals, wear sleeves and back-up rings prevent leaks

Dynamic Oil Level Indicator

Compliant, oil level change for simple, visible lubrication indication

*H* Foot

V-Flange

F-Flange

Input Options

Motor Options

Integral Motors
Exceptionally compact, low inertia three phase motors. Inverter ready

Brake Motors
Amusingly durable, fast acting spring set electrically released brakes

C-Face Motors
Numerous versions available

Features for the Cyclo® 6000 Series

- Cycloidal Speed Reduction Technology
- Quiet, efficient and reliable operation with high torque density and compact size
- Modular Design
- Interchangeable cast iron housings in foot, flange or face mounting configurations
- Universal Mounting Arrangements
- Available in shaft, split flange shaft, C-face, shoe base, and top-mount inputs
- Superior Steel Components
- Internal components hardened from hardened, vacuum degassed, bearing grade steel provide exceptional reliability, low noise, low backlash and extended operational life
- Exceptional Performance
- Designed to withstand shock loads exceeding 100% of their ratings, backed by standard 24 month warranty

Cyclo® 6000 Series

Offering unmatched reliability and exceptional performance, Cyclo® 6000 is the most torque dense and rugged inline drive available in the market today.

- Exceptional Shock Resistance
- 100% Momentary Shock Load Capability
- The Cyclo® design spreads the load across larger areas or to multiple components, eliminating the erratic shock and disparities better than typical concentric drives.
- Hardened Steel Internal Components
- All housing components are fully hardened, vacuum degassed bearing grade steel for consistent, reliable performance
- Unmatched, Spur-Saving Design
- High powered density, all reduction contained in compacting gear housing
- Superior Seal Designs
- Pressure-rated seals, wear sleeves and back-up rings prevent leaks
- Dynamic Oil Level Indicator
- Compliant, oil level change for simple, visible lubrication indication
- Dependable Housing Designs
- High powered density, all reduction contained in compacting gear housing
- Exceptional Shock Resistance
- 100% Momentary Shock Load Capability
- The Cyclo® design spreads the load across larger areas or to multiple components, eliminating the erratic shock and disparities better than typical concentric drives.
**Cyclo® Technology: Unparalleled Performance**

Proven in millions of installations worldwide, Sumitomo’s unique Cyclo® technology offers quiet, efficient and reliable operation with high torque density and compact size:

**Cycloidal “Gearless” Speed Reduction**
Torque transmitting parts roll, rather than grind, providing quiet, efficient and reliable performance

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

**Long Life and High Shock Load Capacity**
The Cyclo® input has two-thirds of its reduction components in contact at all times, resulting in exceptionally rugged, shock resistant performance

**Sumitomo Standard 24-month Warranty**
Our standard warranty is unlimited by hours of operation

---

**Cyclo® 6000 Applications**

- Conveyors
- Sawmills and Wood Mills
- Food and Beverage Machinery
- Wastewater Treatment
- Steel Mills
- Automotive Plants
- Construction Equipment
- Recycling Machines
- Paper Mills
- Poultry Plants
- Processing Plants
- Mixers
Product Configurator: www.sumitomodrive.com/Configurator

Trying to select a drive? Need more technical specifications? Need pricing?
Sumitomo Drive Technologies' online product Configurator streamlines the selection process, enabling you to build our power transmission products for your specific application.

Available 24 hours a day, 7 days a week, registered users quickly receive results that include:
- Downloadable 2D and 3D CAD files
- Product Literature
- Technical Specification Sheet
- Product Ratings
- Request for Quote*
- Quotations*

This unique interactive tool is one more reason Sumitomo Drive Technologies is the world's premier power transmission and control solutions provider.

*Not available for all markets

Cyclo® 6000 series
www.smcycolo.com/Cyclo6000

Cyclo® Technology: Unparalleled Performance
Proven in millions of installations worldwide, Sumitomo's unique Cyclo® technology offers quiet, efficient and reliable operation with high torque density and compact size:
- Cycloidal "Gearless" Speed Reduction
- Torque transmitting parts roll, rather than grind, providing quiet, efficient and reliable performance
- Superior Materials
- 52100 bearing grade steel rotating components, hardened to 58 Rockwell C for unmatched durability and reliability
- Long Life and High Shock Load Capacity
- The Cyclo® input has two-thirds of its reduction components in contact at all times, resulting in exceptionally rugged, shock resistant performance

Sumitomo Standard 24-month Warranty
Our standard warranty is unlimited by hours of operation

Cyclo® 6000 Applications
- Conveyors
- Sawmills and Wood Mills
- Food and Beverage Machinery
- Wastewater Treatment
- Steel Mills
- Automotive Plants
- Construction Equipment
- Recycling Machines
- Paper Mills
- Poultry Plants
- Processing Plants
- Mixers

Cyclo® 6000
Highly Reliable, Torque Dense Cycloidal Speed Reducers and Gearmotors
6000 Series

Configure your Cyclo® 6000 today at www.sumitomodrive.com/Configurator

Sumitomo Americas

Sumitomo Machinery Corporation of America (SMA) is a subsidiary of Sumitomo Heavy Industries (SHI), the global leader in power transmission knowledge and innovation.

SMA began its operations in 1966 with a work force of ten people and an assembly facility of 5,000 ft² (465 m²). Today, our corporate headquarters in Chesapeake, VA (USA), combined with our strategic satellite locations throughout North, Central and South America occupy more than 500,000 ft² (46,500 m²) of office and manufacturing space. We ship thousands of drive products every month, adding to our North and South American installed base of more than five million units. SMA is committed to providing Quality at Every Stage.

USA - Headquarters & Manufacturing
4200 Holland Boulevard
Chesapeake VA 23323
Tel: 757-485-3355