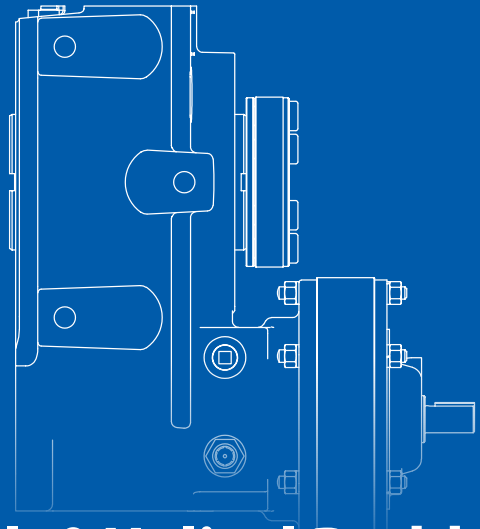


Sumitomo Drive Technologies
Always on the Move



Cyclo® Helical BuddyBox®

*Parallel Shaft Helical Gearbox
with Cyclo® Reducer Input*



Cyclo® Helical BuddyBox®

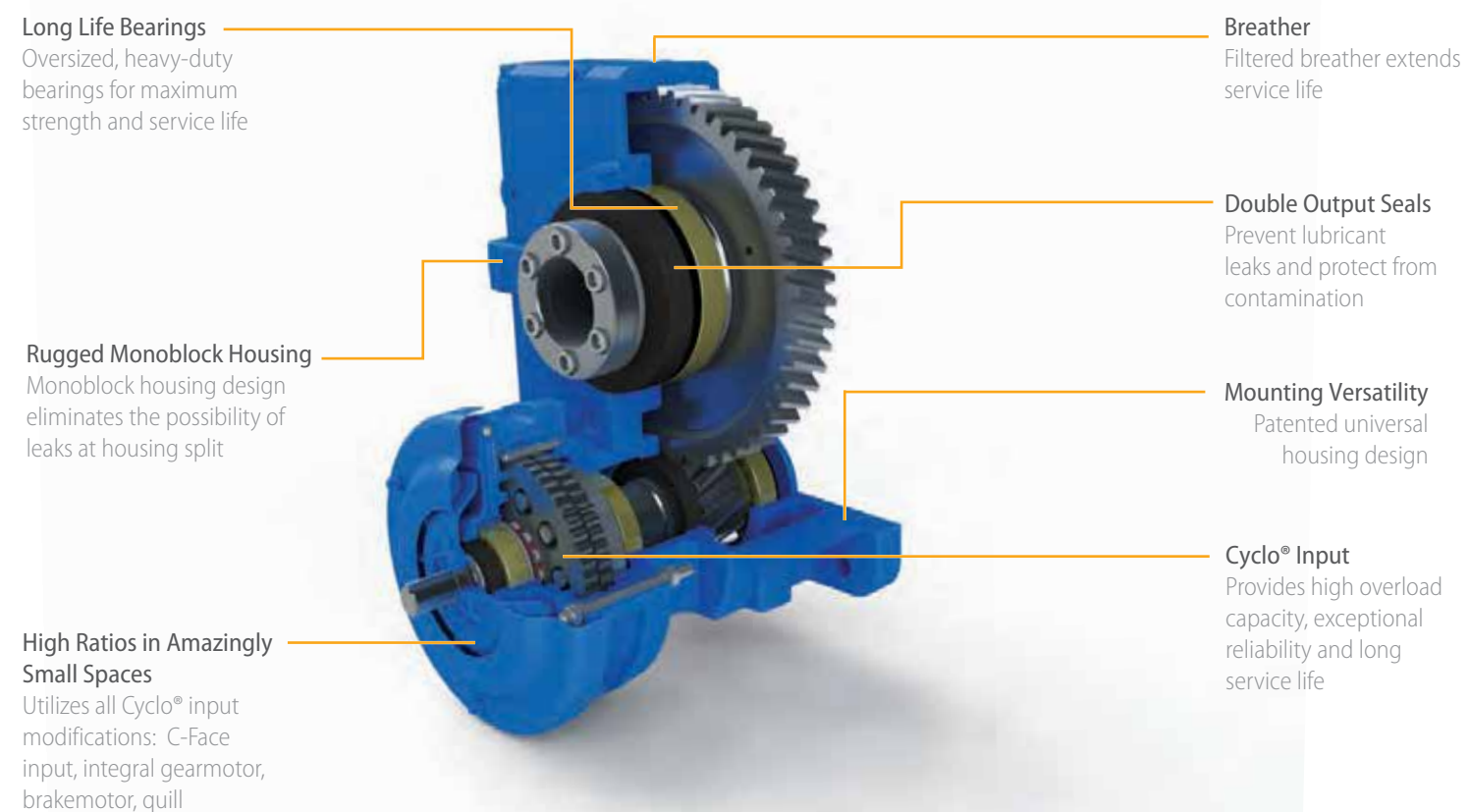
Parallel Shaft Helical Gearbox with Cyclo® Reducer Input

Cyclo® quality and reliability, shaft mounted design,
high performance **all steel components**
deliver 85 - 90% efficiency

Sumitomo's Cyclo® Helical Buddybox® (Cyclo® HBB) speed reducers and gearmotors provide **innovative shaft mounted drive solutions for demanding applications**. The Cyclo® HBB combines the quiet, efficient and reliable performance of the Cyclo® input with the rugged helical gear output. The modular design provides a compact, efficient product and the most flexible range of output speed and torque combinations available.

Features for the Cyclo® HBB

- ▶ **Modular Design**
Interchangeable cast iron housings in flange, face or shaft mount configurations
- ▶ **Cycloidal Speed Reduction Technology**
Quiet, efficient and reliable operation with high torque density and compact size
- ▶ **Taper-Grip® Bushing**
Provides quick, easy mounting and removal of the unit
- ▶ **Cast Iron Housing**
Strong, corrosion resistant and sound dampening casing
- ▶ **Splash Lubrication**
Simple and reliable lubrication system extends life
- ▶ **No Thermal Limitations**
Highly efficient design never needs an external fan



Specifications Summary

Torque Capacity: Up to 75,800 lb-in (535 N-m)
HP Rating: 1/8 to 40 HP (.09 to 30 kW)
Ratio Range: 11:1 up to 26,000:1 and greater
Mounting: Flange, Face, Hollow Shaft
Motor Standards: NEMA, IEC, JIS, UL, CSA, CE

Multiple Mounting Options

Flange, Face, and Shaft mount are available options for the Cyclo® HBB series.



Flange

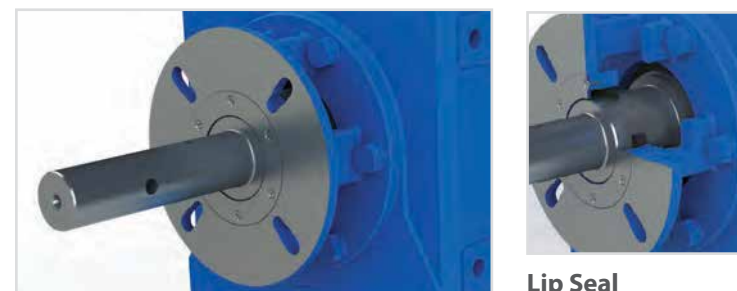


Face Mount



Hollow Shaft Mount

CEMA Screw Conveyor Drive



CEMA Screw Conveyor Drive

This very compact design eliminates belts, sheaves and guards, saving space and reducing maintenance. The supplied lip seal enables users to optimize the drive's sealing system.

CEMA Standard Shafts

Both two hole and three-hole designs readily available in both carbon steel and stainless steel drive shafts.

Input and Output Options

Keyless, Steel Taper-Grip® Bushing Makes Mounting of Hollow Shaft Units Easy and Economical

The patented Sumitomo Taper-Grip® bushing system enhances the Cyclo® HBB value by offering a simple shaft-mounting device that provides self-aligning, backlash-free torque transmission to the driven shaft.

The unique, patented design offers these benefits:

- ▶ Easy mounting and removal of the unit to and from the driven shaft
- ▶ Standard bore sizes require no shaft preparation, e.g., keyway, undercut, or keeper plate
- ▶ Multiple stock bore sizes for quick delivery

Cyclo® Helical BuddyBox® Frame Size Details

Frame Size	MAXIMUM POWER		BORE DIAMETER	
	Output Torque lb-in (N-m)	Input Power HP (kW)	Keyed Hollow Bore inch (mm)	Taper-Grip® Bushing inch (mm)
Z6090/5	3,870 (437)	2 (1.5)	1-3/16 to 1-1/2 (30 to 40)	1 to 1-1/2 (25 to 40)
A6100/5	7,660 (865)	4 (3)	1-1/4 to 3-3/16 (45 to 55)	1 to 2-1/4 (23 to 55)
B6120/5	15,700 (1774)	8 (6)	1-3/8 to 2-5/8 (55 to 65)	1-1/8 to 2-3/4 (30 to 65)
C6140/5	31,300 (3536)	20 (15)	2-3/16 to 3-3/16 (60 to 80)	1-1/2 to 3 (40 to 75)
D6160/5	54,300 (6135)	32 (24)	2-3/8 to 3-3/4 (70 to 90)	2-3/16 to 3-7/16 (55 to 85)
E6170/5	75,800 (8564)	40 (30)	2-15/16 to 4 (80 to 110)	2-11/16 to 4 (65 to 100)



Taper-Grip® Bushing



Gearmotor



Brakemotor



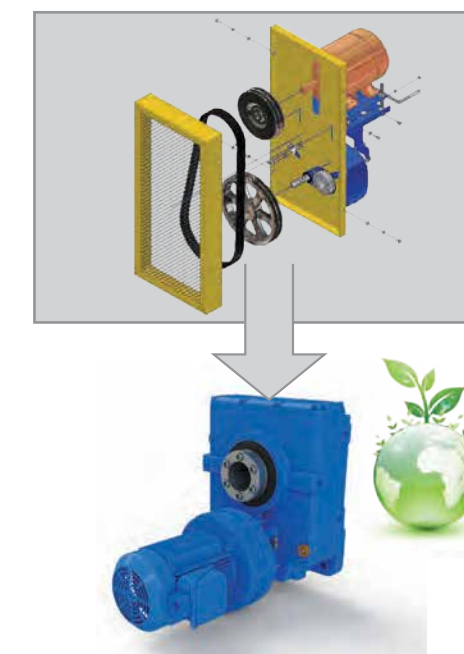
C-Face



Quill

Make The Switch

Simplify your gear drive assembly and increase efficiency by switching to Sumitomo's Cyclo® HBB.



Replacing your inefficient conveyor drive system with Sumitomo's Cyclo® HBB results in:

- ▶ Safe operation; fewer moving parts reduce risk to personnel
- ▶ Simplified, less costly installation
- ▶ Minimal maintenance and parts inventory
- ▶ Elimination of many wear items such as belts, sheaves, etc.



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® HBB Applications

Material Handling

Rolling Mill Table

Conveyors

Screw Conveyors

Sortation Systems

Shredders

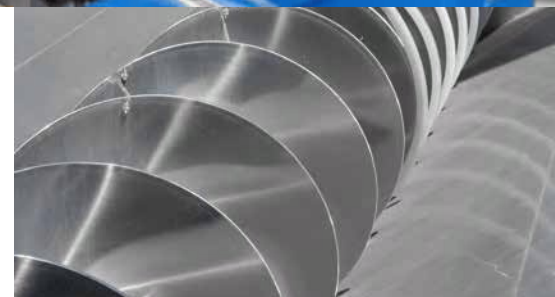
Rotating Biological Contactor

Belt Filter Press

Bar Screen

Mixer/Blender

Food Processing



Cyclo® Helical BuddyBox®

www.smcyclo.com/HBB



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.

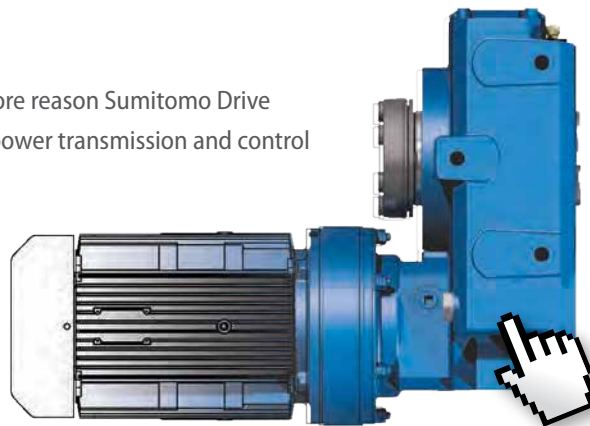


Available 24 hours a day, 7 days a week, registered users quickly receive results that include:

- 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*



Configure your Cyclo® HBB 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

 Sumitomo Machinery Corporation of America
www.sumitomodrive.com

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