Sumitomo Drive Technologies *Always on the Move*

Cyclo HBB



▶ Parallel Shaft Helical Gearbox with Cyclo® Reducer Input

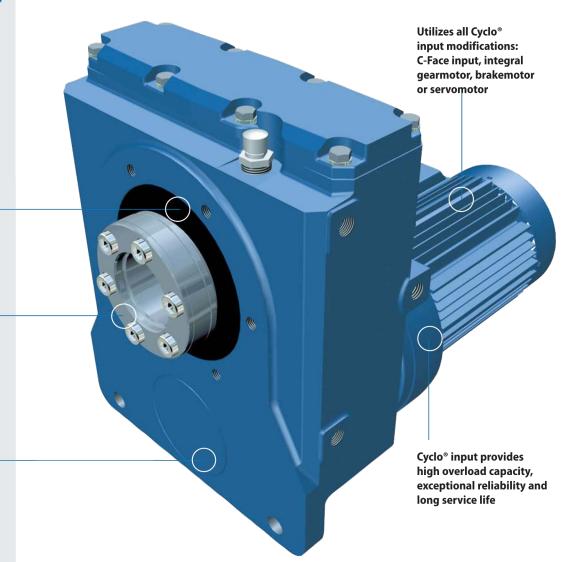
► Flexible configurations

- Shaft Options: hollow
- Mounting Options: flange face

Double output seals prevent lubricant leaks and protect from contamination

Patented keyless, steel Taper-Grip® bushing allows for quick and easy mounting and removal. Installs from either side

Patented universal housing design





Cyclo® Quality and Reliability, Shaft Mount Design

► High performance steel gearing components deliver 85-90% efficiency

Product Description

Sumitomo's Cyclo® Helical Buddybox (Cyclo® HBB) speed reducers and gearmotors provide innovative shaft mounted drive solutions for demanding services. The Cyclo® HBB combines the quiet, efficient and reliable performance of the Cyclo® technology 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. Sumitomo's patented 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 Cyclo® HBB design is flexible and easily adapts to CEMA Screw Conveyor Drive applications with a modular conversion kit.

Features & Benefits

- · Cycloidal speed reduction technology
 - ~ Quiet, efficient and reliable operation with high torque density and compact size
- Modular design
 - ~ Interchangeable cast iron housings in foot, flanged or face mount configurations
- · Double output seals
 - ~ Virtually leak-free operation and optimal protection from lubrication contamination
- · Taper Grip® Bushing
 - ~ Simple, steel, keyless shaft mounting system resists fretting and eases unit installation and removal from driven shaft
- · CEMA Screw Conveyor Drive option
 - ~ Quick and simple conversion for Cyclo® HBB units to fit CEMA standard dimensions

Specifications

Ratios: 11:1 up to 26,000:1 and greater

Torque Capacity: Up to 75,800 in. lbs.

HP: 1/8 to 40

Mounting: Hollow Shaft, Foot, Flange, Face

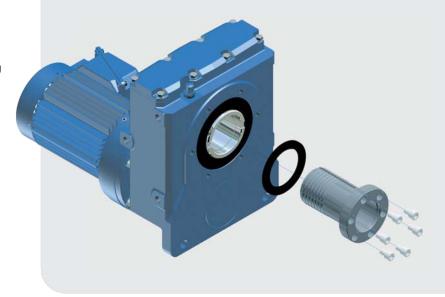
Options: Integral Motor, C-Face **Motor Standards:** NEMA, IEC, JIS, UL, CSA, CE

Keyless, steel Taper-Grip® bushing makes mounting of hollow shaft units easy and economical

The Sumitomo **Taper-Grip**® bushing is a keyless, torque transmission device integrated into the shaft mounted, offset parallel Cyclo® HBB reducer and gearmotor product lines.

The unique, patented design has a number of benefits:

- · Easy mounting and removal of the unit to and from the driven shaft
- Standard bore sizes require no shaft preparation such as a keyway, undercut, or keeper plate
- · Backlash free torque transmission
- · Works with standard shafting, no special tolerances required
- · Automatic shaft center alignment
- · Resistant to fretting and corrosion
- · Multiple stock bore sizes for quick delivery.





Applications

- Material Handling
- Conveyors
- Baggage Handling
- Shredders
- Belt Filter Press
- Mixer/Blender
- Screw Conveyors
- Elevators
- Hoist Drives
- Climber Screens
- Food Processing

• Rolling Mill Table

Product Range
 Standard Motor
 and Reducer
 Combinations



Available with CEMA Screw Conveyor Drive option

Double Reduction Ratios 364 — 4365

Combinations with 1750 RPM motor

Rat	io	364	424	501	578	683	809	956	1117	1320	1656	1957	2272	2559	2944	3511	4365
Output Spee RPM (60 H	e d z)	4.81	4.13	3.5	3.03	2.56	2.16	1.83	1.57	1.33	1.06	0.894	0.77	0.684	0.595	0.499	0.401
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