

Sumitomo Drive Technologies
Always on the Move

HSM



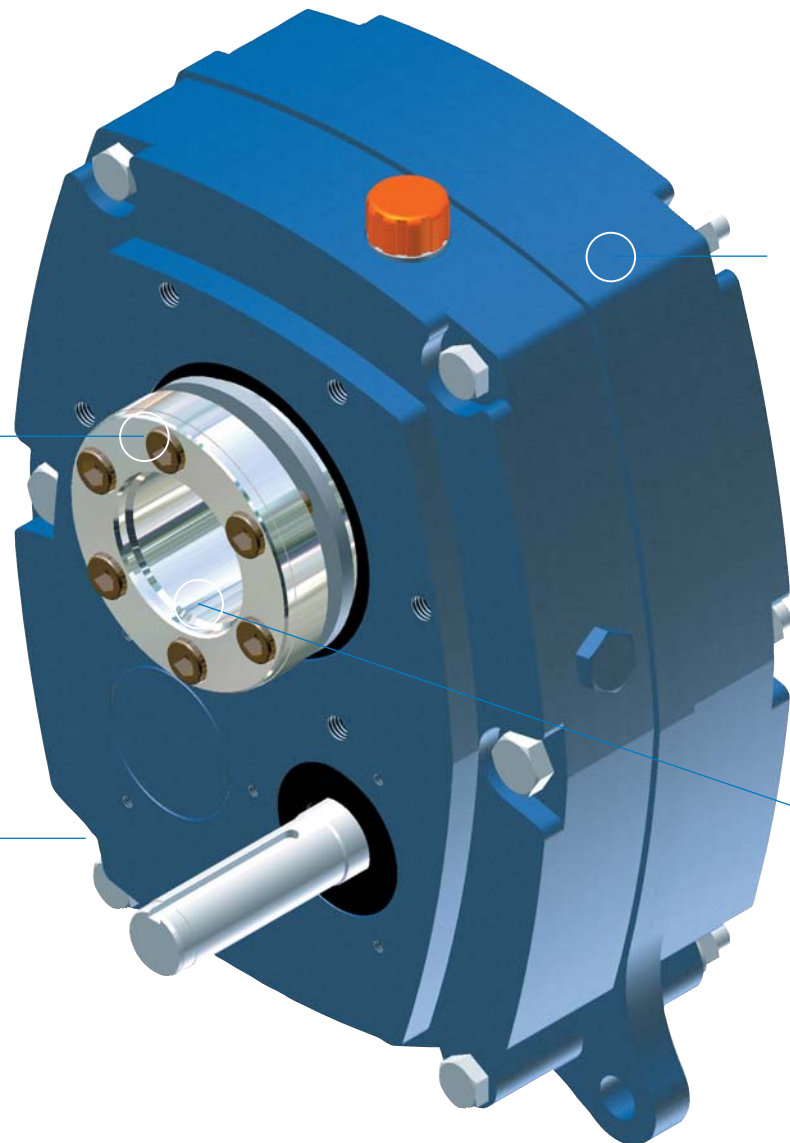
▶ Helical Shaft Mounted Speed Reducer with CEMA Screw Conveyor Drive Option

Flexible Application, Fast Installation

► **Built with heavy-duty roller bearings for maximum strength and extended life**

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

25° pressure angle, gas carburized and hardened alloy steel gears are shaved and honed for low noise, high performance



Rugged cast iron housing ensures maximum working life in demanding environments

Full range of bore diameters for broad selection of applications and retrofits

Product Description

The Sumitomo Helical Shaft Mount (HSM) Speed Reducer provides **simple and convenient** equipment interface **by mounting directly on the drive shaft**. Featuring ratios from 5:1 to 25:1 and input power capacities up to 300 hp, the HSM uses Sumitomo's keyless Taper-Grip® Bushing to make reducer mounting and removal quick and easy. The HSM is universally adaptable for CEMA screw conveyor and shaft mount designs for maximum application flexibility. Carburized gear teeth, 25° pressure angle gear geometry and wide gear faces enable HSM to deliver high-efficiency torque output and maximum ratings capacity in a compact design.

Features & Benefits

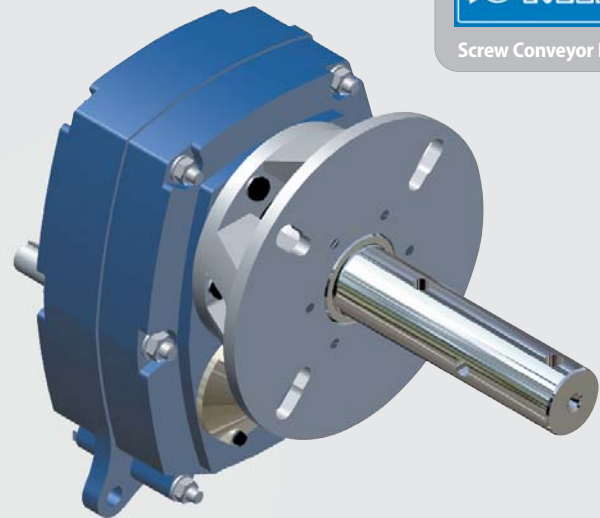
- Higher ratings with a **25° pressure angle** and wider gear tooth face for maximum torque
- **Keyless shaft connection** with Taper-Grip® bushing for easy installation and removal, simple replacement
- **Heavy duty roller bearings** for maximum strength and extended life
- **AGMA standard bore sizes** in both bushed and through-bore simplify specification and retrofit
- **CEMA standard** screw conveyor options
- Optional **Taconite sealing systems** for effective protection in specialized applications
- **Drop in replacement** for all AGMA-style units
- Flexible motor mounting capabilities
- Backstops with **centrifugal lift-off sprags** to maximize reliability

Specifications

Ratios:	5:1, 9:1, 15:1, 20:1, 25:1
HP:	1/4 to 300
Sizes:	107 to 608
Bore Sizes:	1 3/16" to 6 1/2", optional metric
Mounts:	Vertical, horizontal, and direct drive mounting configurations
Lubrication:	Oil lubrication, synthetic lubricant optional
Housing:	Cast iron case construction
Screw Conveyor:	CEMA Standards

CEMA Screw Conveyor Drive

- Available for **AGMA sizes 107 through 407**.
- Assembles to standard reducer, no modifications required.
- Output Features:
 - Three-hole, steel and optional stainless steel shafting that includes keeper plate.
 - Mounting adapter with integral gland cartridge and adjustable packing gland for easy adjustment or packing replacement without removing trough end or gearbox.
 - Double lip seal and braided packing supplied with adjustable packing gland.



▶ Applications

Perfect for screw conveyors, belt conveyers, bulk handling machinery and process equipment for:

- Baggage Handling
- Pulp, Paper, & Forestry
- Aggregate & Mining
- Mixers & Process Equipment
- Grain & Agriculture

HSM Helical Shaft Mounted Speed Reducer With CEMA Screw Conveyor Drive Option

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

The HSM Speed Reducer easily attaches to the driven shaft using Sumitomo's Taper-Grip® bushing. The **unique patented design** of this keyless, torque transmission device has a number of benefits:

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



Headquarters & Manufacturing

4200 Holland Boulevard
Chesapeake, VA 23323
Tel: 757-485-3355
Fax: 757-485-7490
E-mail: customercare@suminet.com
www.smcyclo.com

North & South America

USA: 757-485-3355
Canada: Toronto 905-469-1050
Mexico: Monterrey 011-52-81-8144-5130
Brazil: Sao Paulo 011-55-11-5585-3600
Chile: Santiago 011-562-786-6963
Argentina: Buenos Aires 011-54-11-4765-5332
For worldwide location details: **www.sumitomodrive.com**

World Headquarters - Japan

Sumitomo Heavy Industries, Ltd.
Power Transmission & Controls Group
Thinpark Tower, 1-1, Osaki 2-chrome
Shinagawa-ku, Tokyo 141-6025 Japan
Tel: 011-813-6737-2511 • Fax: 011-813-6866-5160