

Worm gear drives

Challenge: **Worm gear drive reliability.** Worm gears are typically high-reduction, slow-speed and heavily loaded drives that can be prone to high wear or failure in demanding applications.

Solution: **Protect your worm gear drive with synthetic lubricants** designed to reduce frictional losses and maintenance by reducing wear and gear temperatures, extending oil intervals and improving equipment life and reliability.

Compared to conventional lubricants, Mobil SHC™ lubricants can provide:



Safety

- Reduced maintenance personnel exposure to equipment



Environmental Care

- Less oil consumption
- Reduced used oil disposal
- Reduced energy usage and related CO₂ emissions



Productivity

- Fewer breakdowns and repairs
- Reduced routine maintenance costs
- Up to 3.6 percent reduction in energy costs

Industries

- Cement plants
- Pulp and paper
- General manufacturing
- Chemical and processing plants, refineries
- Off-highway
- Packaging
- Petrochemical and chemical plants
- Power generating stations
- Waste treatment

Key applications

- Agitators
- Coal pulverizers
- Conveyor gear drives
- Elevator lift gears
- Hoists
- Mud pumps
- Mixers
- Pulp refiners and washers
- Soot blowers
- Steel mill hot/cold table drives
- Stoker grates



*Visit mobil.com/shc to learn how certain Mobil-branded lubricants may provide benefits to help minimize environmental impact. Actual benefits will depend upon product selected, operating conditions and applications.

Industrial Lubricants



Worm gear drives

Products

- Mobil SHC™ 600 Series oils*
- Mobil Glygoyle™ ISO Series oils
- Mobil SHC Cibus™ 460 oil (food processing)
 - Compatible with mineral oils

Key equipment builder approvals

Mobil SHC™ lubricants are endorsed by leading worm gear drive builders, including:

- Bonfiglioli
- Cleveland Gear Co. Inc.
- Cone Drive Industries (David Brown, AB Benzlers, H-Fang)
- Grove Gear
- Hub City-Foote Jones Inc.
- Nord Gear Corporation
- Peerless-Winsmith Inc.
- Reuland Electric Co.
- Rossi S.p.A.
- SEW-Eurodrive Inc.
- Sterling Electric Inc.

Visit mobil.com/industrial to search by equipment builder name for specific recommendations.



Proof of Performance

Mobil SHC™ 634 gear oil and Mobil Serv™ lubricant analysis help a palm oil manufacturer save more than US \$18,000 per year through extended gearbox performance

Mobil SHC™ 636 helps Shanxi Changzhi Wangqu power plant save US \$13,368 annually

Mobil SHC™ 629 and Mobil Serv™ services help Aarti Textiles save US \$1,400 annually

Mobil Glygoyle™ 320 helps polypropylene film manufacturer eliminate unscheduled downtime and improve equipment reliability, delivering a total savings of US \$600,000

Mobil Glygoyle™ 460 gear oil helps gear OEM prevent micropitting and reduce operating temperatures

Read the complete stories at mobil.com/shc, where you can explore other success stories and find out how Mobil SHC™ synthetic and Mobil Glygoyle™ ISO Series lubricants can energize your business.



*The energy efficiency design is a trademark of Exxon Mobil Corporation. Energy efficiency relates solely to the fluid performance when compared with conventional reference oils of the same viscosity grade in gear applications. The technology used allows up to 3.6 percent efficiency compared with the reference when tested in a worm gearbox under controlled conditions. Efficiency improvements will vary based on operating conditions and applications.

Note: Productivity Pointers are provided for the use of ExxonMobil and our authorized distributors. Schematics and product series recommendations are intended as a general guide. Please visit mobil.com/industrial for specific builder equipment recommendations.

© 2017 ExxonMobil. All trademarks used herein are trademarks or registered trademarks of Exxon Mobil Corporation or one of its subsidiaries.

mobil.com/shc