



**GEAR+MOTOR™**  
**INTEGRAL GEARMOTORS**  
**GEAR REDUCERS**

**GROVE GEAR**

**ELECTRA-GEAR**

*Geared to be the Best*

# Premium Gear Reducers



## Grove Gear IRONMAN Worm Reducer and GEAR+MOTOR™ Selections

- Fourteen sizes available with ratings to 104 HP.
- Available in single, double and triple reduction with ratios from 5:1 to 216,000:1. Helical worm ratios from 25:1 to 600:1.
- Premium Viton® double-lip seals throughout provide long life and resistance to high temperatures, abrasion and chemicals.
- Factory-filled with premium Mobil Glygoyle 460 polyalkalene glycol lubricant.
- O-rings on input and output covers eliminate gaskets, sealants and leaks.
- Output shaft key provided.
- Available pre-assembled with LEESON or Lincoln Motors for the perfect GEAR+MOTOR™ package.
- Mounting dimensions are interchangeable with most major competitors.
- NH Series features a compact housing design to fit in reduced space allocations.



## Electra-Gear Aluminum Worm Reducers and Integral Gearmotors

- Ten sizes available to 29 HP.
- Available in single, double and triple reduction with ratios from 5:1 to 216,000:1.
- Clean, polished and paint-free finish.
- Lightweight alternative to cast iron.
- Lower cost alternative to stainless steel.
- Superior corrosion resistance to painted cast iron.
- Stainless steel shafts and hardware available.
- Factory filled with premium Mobil Glygoyle 460 polyalkalene glycol lubricant.



## Bravo® and LeCentric™ Aluminum Gear Reducers

- Bravo® worm reducers available in five sizes with ratings to 7.5 HP and in ratios from 7:1 to 70:1.
- LeCentric™ inline reducers available in four sizes with ratings to 15 HP and in ratios from 3.5:1 to 280:1.
- Fit into small spaces. Up to one third smaller than other brands.
- Sealed for life, never change or add oil.
- Lightweight OEM design suitable for mobile equipment and difficult installations.
- Mounting dimensions are interchangeable with most major worldwide competitors.

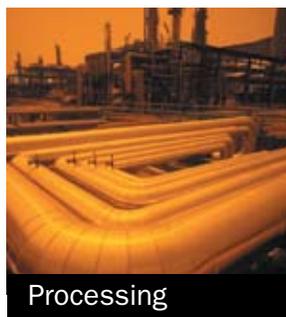
# Quality

*Superior Design and Precision Manufacturing*

## A Multitude of Applications



Chemicals



Processing



Meat



Car Wash

**GROVE GEAR**

[www.grovegear.com](http://www.grovegear.com)

**ELECTRA-GEAR**

# Reducers, GEAR+MOTOR™ and In



## IRONMAN High Efficiency GEAR+MOTOR™ and Reducer Selections

- The IRONMAN High Efficiency products are a modular design, including the concentric helical inline reducers, right-angle helical-bevel and helical-worm reducers.
- Nine sizes of inline reducers with ratios from 2.2 to 3700:1 and ratings to over 125 HP.
- Six sizes of helical-bevel reducers with ratios from 6.2 to 3400:1 and ratings to over 130 HP.
- Four sizes of helical-worm reducers with ratios from 7:1 to 3400:1 and ratings to 17 HP.
- Four sizes of parallel shaft drives with ratios from 3.42 to 3333:1 and ratings to over 20 HP.
- IRONMAN reducers are available with LEESON or Lincoln motors pre-assembled for the perfect performance-matched solution.
- Ironman High Efficiency reducers are dimensionally interchangeable to major worldwide competitors.



## Ratio Multipliers

- Three sizes available in cast iron with ratings to 20 HP and ratios from 2:1 to 7.5:1.
- Two sizes available in aluminum with ratings to 6 HP and ratios from 2:1 to 7.2:1.
- One size available in stainless steel with ratings to 4.7 HP and ratios from 2:1 to 7.5:1.
- All ratio multipliers feature helical gearing to optimize system efficiency.
- Dual purpose design can be used as a stand-alone single reduction inline reducer or as a bolt-on to the input of any c-faced gear reducer to multiply overall reduction ratio.



## Premium Stainless Steel Worm Reducer and GEAR+MOTOR™ Selections

- Six sizes available with ratings to 17 HP. Available in single and double reduction with ratios from 5:1 to 3600:1.
- Helical-Inline and Helical-Bevel reducers available.
- 316 stainless steel housing and covers.
- 303 stainless steel output shaft.
- Viton® double-lip seals.
- Vent-free "sealed-for-life" design with Enviroseal technology.
- Factory filled with premium Mobil Glygoyle 460 polyalkalene glycol lubricant - meets USDA Class H1 standards.
- Worms are cut, heat-treated, ground and polished to provide efficient, quiet operation.

## Interchangeability

*Replace all major brands*



Food Processing



Conveyors



Specialty Lifts



Communication

# Integral Gearmotors



## WASHGUARD® Gear Reducers and GEAR+MOTOR™ Selections

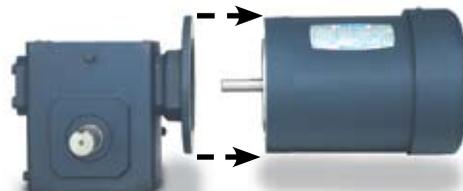
- Fourteen sizes available with ratings to 104 HP. Available in single, double and triple reduction with ratios from 5:1 to 216,000:1. Helical worm ratios from 25:1 to 600:1.
- Helical-Inline, Helical-Worm, Helical-Bevel and Parallel Shaft Drives available.
- Factory-filled with premium Mobil Glygoyle 460 polyalkalene glycol lubricant - meets USDA Class H1 standards.
- Viton® double-lip seals.
- Patented Forsheda V-ring on output shaft provides extra protection from contaminants.
- O-ring on “flat-faced” input flange provides a positive seal against moisture intrusion.
- Food grade white epoxy paint.
- Enviroseal feature provides a vent-free and “sealed for life” design.

## Package Solutions From Grove Gear



### Custom Solutions

- Unmatched manufacturing facilities provide low cost solutions for your gearing needs.
- From inexpensive designs to elaborate transmissions, miniature integral gearmotors to gearboxes rated for 1,000 HP, Grove Gear can solve your toughest transmission needs.
- From application review and design to manufacturing and testing, a quality-based partnership is assured with Grove Gear.



### GEAR+MOTOR™

- Preassembled GEAR+MOTOR™ are an in-house specialty.
- Performance matched LEESON and Lincoln motors available attached to any Grove Gear, Electra-Gear or LEESON gear reducer.
- Thousands of speed and torque combinations available from stock.
- Save time and expense with no cost for the labor.
- Best variable speed products in the industry—from simple inverter duty and vector duty motors to permanent magnet DC motors.

## Reliability

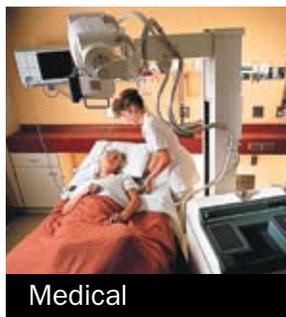
***Trust your partners with over 10,000,000 gear reducers installed worldwide.***



Solar Power



Dairy



Medical



Bottling

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[www.grovegear.com](http://www.grovegear.com)

**ELECTRA-GEAR**

# Geared to be the Best



## A Team Dedicated to Customer Satisfaction

The entire GROVE GEAR team is committed to providing superior customer service and engineering support, exceptional design, manufacturing quality, competitive pricing and one of the best lead times in the industry.

Our focus on quality,

combined with our state-of-the-art machinery, software, quality assurance systems and testing equipment, has positioned us as a leading solutions provider in today's fast-paced industrial environment.



## Product Support is Just a Click Away

[www.grovegear.com](http://www.grovegear.com)

Download:

- Catalogs
- Shaft-hand assembly change procedures
- Instruction and maintenance manuals
- 2-D and 3-D CAD drawings
- Parts lists



Visit the Grove Gear and Electra-Gear Online Product Configurator

- Search product by serial number or model number
- Select Grove Gear worm products by center distance, ratio, assembly or style
- View dimensions
- Download 2-D and 3-D CAD files
- Compare products to optimize selection
- Request a quote online

