

**GROVE GEAR®**



# GROVE GEAR PRODUCTS BROCHURE

**REGAL®**

# Product Support is Just a Click Away

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

## Download

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

**Bravo™**  
Compact & Lightweight Power Transmission Solution

Worm Gear Reducers | Bravo | Ratio Multipliers | High Efficiency Gear Reducers | E-Series High Efficiency Right Angle Reducers | Custom Solutions | GROVE GEAR

**Gear Products Catalog 8050 - Digital Version**  
Click here for our new easy search catalog  
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**Grove Gear expands its LeCentric helical inline reducers to include ratios up to 18,587 lb-in torque.**  
The expanded line of Grove Gear LeCentric helical in-line reducers offers advantages for OEM and MRO applications alike.  
[Read More »](#)

**Grove Gear Launches New and Improved TX**  
Grove Gear is pleased to announce the new and improved TX ratio multiplier product.  
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## Visit the Grove Gear™ Online Product Configurator

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

Use our easy Search Catalog available on [groovegear.com](http://groovegear.com) to help you easily search for products



- Search by product type
- Search by item number
- Engineering data available with search results

# A Multitude of Applications



Chemicals

Processing

Meat

## GR Series Worm Gear Reducers



- 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 PAG Lubricant.
- O-rings on input and output covers eliminate gaskets, sealants and leaks.
- Output shaft key provided.
- Available pre-assembled with LEESON® motors for the perfect GEAR+MOTOR™ package.
- Mounting dimensions are interchangeable with most major brands.
- NH Series features a compact housing design to fit in reduced space allocations.

## EL Series Worm Gear Reducers



- 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.
- Available pre-assembled with LEESON motors for the perfect GEAR+MOTOR™ package.
- Lower cost alternative to stainless steel.
- Superior corrosion resistance to painted cast iron.
- Stainless steel shafts and hardware available.
- Factory filled with premium PAG Lubricant.
- Viton® double-lip seals.

## SS Series Worm Gear Reducers



- Six sizes available with ratings to 10 HP.
- Available in single, double and triple reduction with ratios from 5:1 to 216,000:1.
- 316 stainless steel housing and covers.
- 303 stainless steel output shaft.
- Available pre-assembled with LEESON motors for the perfect GEAR+MOTOR™ package.
- Viton® double-lip seals.
- Factory filled with premium PAG Lubricant—meets USDA Class H1 standards.
- Worms are cut, heat-treated, ground and polished to provide efficient, quiet operation.

Interchangeability

Replace all major brands

Quality

Superior Design and Precision Manufacturing

Reliability

Best LeadTimes in the Industry



Car Wash

Food Processing

Conveyors

Specialty Lifts

Communication

## E Series High Efficiency Reducers



- Four sizes available with ratings to 27 HP.
- Available in single, double and triple reduction with ratios from 7.8:1 to 442:1.
- 60% more torque than a typical worm gear reducer.
- Opportunity to downsize motor and gear reducer.
- Four models replace 10 typical worm gear reducer center distances.
- Plug-in shafts and mounting accessories create hundreds of style combinations.
- 90% operating efficiency.
- Rapid payback through energy cost savings.
- Mounting dimensions are interchangeable with most major brands.

## LeCentric™ High Efficiency Reducers



- Available in Aluminum; Cast Iron.
- Aluminum Sizes 717 thru 757. Torque Ratings Up To 5100 in-lbs.
- Cast Iron Sizes 767 thru 797. Torque Ratings Up To 5100 in-lbs.
- High Efficiency - (Up to 95%).
- Sealed for life.
- Double and Triple Reduction.
- Ratios 3.5:1 to 280:1.
- Dimensionally interchangeable with major worldwide brands.
- Metric motor flange options available.

## 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.



Solar Power

Dairy

Medical

Bottling

## Bravo™ and Quadro™ Aluminum Gear Reducers



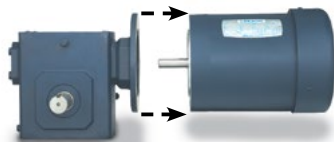
- Bravo™ worm reducers available in five sizes with ratings to 7.5 HP and in ratios from 7:1 to 70:1.
- Quadro™ worm reducers are available in four sizes with ratings to 8 HP and in ratios from 7:1 to 4020:1.
- Fit into small spaces. Up to one third smaller than other brands.
- Sealed for life, never change or add oil.
- Lightweight OEM design suitable for mobile equipment and difficult installations.
- Mounting dimensions are interchangeable with most major worldwide brands.

## WASHGUARD™ Gear Reducers



- Fourteen sizes 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 PAG 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.

## Package Solutions



- Preassembled GEAR+MOTOR™ packages are an in-house specialty.
- Performance matched LEESON® motors available attached to any Grove 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 PMAC and PMDC.

## Custom Solutions



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

# GROVE GEAR®

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### APPLICATION CONSIDERATIONS

The proper selection and application of products and components, including the related area of product safety, is the responsibility of the customer. Operating and performance requirements and potential associated issues will vary appreciably depending upon the use and application of such products and components. The scope of the technical and application information included in this publication is necessarily limited. Unusual operating environments and conditions, lubrication requirements, loading supports, and other factors can materially affect the application and operating results of the products and components and the customer should carefully review its requirements. Any technical advice or review furnished by Regal Beloit America, Inc. and/or its affiliates ("Regal") with respect to the use of products and components is given in good faith and without charge, and Regal assumes no obligation or liability for the advice given, or results obtained, all such advice and review being given and accepted at customer's risk.

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