

HIGH EFFICIENCY GEAR REDUCERS

Grove Gear offers a complete line of high efficiency gearing products including: helical inline, helical bevel, helical worm and parallel shaft reducers. System operating efficiency is maximized with gear reducer efficiencies up to 97%. In many cases, high efficiency gear products can do the same job as a conventional worm drive, but with a smaller motor and lower energy consumption. All Grove Gear high efficiency gearing products offer decreased motor power requirements, no thermal limitations, industry standard mounting capability and modular design.

	STANDARD	GROVE GEAR HIGH EFFICIENCY GEAR REDUCERS				
	Worm	Helical Worm	Helical Bevel	Helical Inline	Helical Parallel Drives	LeCentric Inline
Ratios	5:1 thru 60:1	Up to 3000:1	Up to 3400:1	Up to 3700:1	Up to 3333:1	Up to 280:1
Housing	Cast Iron, Aluminum, & Stainless Steel	Cast Iron & Stainless Steel	Cast Iron & Stainless Steel	Cast Iron & Stainless Steel	Cast Iron	Aluminum
C-Flange	Standard Product Offering					
Integral Motor	Available	Available	Available	Available	Available	Not Available
Self-Locking	Not Guaranteed	Not Guaranteed	Not Guaranteed	Not Guaranteed	Not Guaranteed	Not Guaranteed
Minimum Backlash	Available	No	No	No	No	No
Hollow Bore Output	Standard Product Offering			No	Available	No
Solid Shaft Output	Standard Product Offering					
Thermal Limits	No	No	No	No	No	No
Efficiency	48% - 85%	46% - 83%	85% - 95%	90% - 97%	90 - 97%	93 - 97%

IRONMAN HIGH EFFICIENCY GEAR REDUCERS



Helical Worm

- 4 sizes available in reducer, GEAR+MOTOR™ and integral gearmotor designs
- Input horsepower ratings up to 17 HP
- Available in double, triple and quadruple reduction with ratios from 7:1 to 3400:1
- Solid output shaft and hollow output shaft available in all sizes
- Hardened and ground steel worm shaft and high capacity bronze alloy worm gear give you the advantages of worm gearing with the efficiency of helical gearing



Helical Bevel

- 6 sizes available in reducer, GEAR+MOTOR™, and integral gearmotor designs
- Input horsepower ratings to 130 HP
- Available in triple and quintuple reduction with ratios from 6.2:1 to 3400:1
- Solid output shaft and hollow output shaft available in all sizes
- Precision carburized and hardened spiral bevel gearing for quiet, efficient, right angle speed reduction



Helical Inline

- 10 sizes available in reducer, GEAR+MOTOR™, and integral gearmotor designs
- Input horsepower ratings to 125 HP
- Available in double, triple and quadruple reduction with ratios from 2.2:1 to 3700:1
- Base mount and output flange designs available in all sizes



IRONMAN HIGH EFFICIENCY GEAR REDUCERS

Helical Parallel Drives

- Power ratings from 1/4 to 20 HP
- Ratios from 3.42:1 thru 3333:1
- Output speeds .5 rpm to 280 rpm
- Universal base, flange and hollow bore mounting with competitive interchange capability
- Precision carburized and hardened crowned helical gearing
- Double lip spring loaded seals with precision ground seal journals
- High capacity ball and tapered bearings with splash lubrication, factory filled
- Enhanced high tensile strength steel shafting with low notch sensitivity
- Optimum structural designed housings made of high strength alloy case iron



LeCENTRIC INLINE GEAR REDUCERS

- 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



HIGH EFFICIENCY GEAR REDUCERS

High Efficiency R Series

Helical-Inline Gear Reducers

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Helical-Worm Gear Reducers

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Helical-Bevel Gear Reducers

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Parallel Shaft Gear Reducers

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