Overview
An industry leader in gearboxes since the 1940s, the Marley Geareducer® sets the standard for excellence.

Primary Benefits
• Gear quality, providing over 5% lower sound and longer life compared to lower class gear sets
• Premium bearings, offering half the bearing maintenance costs
• System 5 Geareducer warranty with five times the coverage duration on new tower installations
• Easy maintenance with half the maintenance of belt drive systems

Benefit Detail
Lower Sound / Longer Life:
• Fine gear mesh minimizes sound levels to produce a quieter gearbox
• Gear Sets are AGMA Quality Class 9 to 11, increasing gear life compared to lower quality class gear sets

Lower Bearing Maintenance:
• Bearings with twice the L_{10A} service life for input and intermediate shafts require half the maintenance costs
• High thrust load capability allows for greater fan weight and higher air loads for a given box size

Gear box sound level tests conducted by National Technical Systems (NTS) in accordance with SAE J2101 under fully loaded conditions

<table>
<thead>
<tr>
<th></th>
<th>Marley Geareducer</th>
<th>Amarillo</th>
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</thead>
<tbody>
<tr>
<td>Input Shaft Bearings</td>
<td>100,000 hr</td>
<td>50,000 hr</td>
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<tr>
<td>Intermediate Shaft* Bearings</td>
<td>100,000 hr</td>
<td>50,000 hr</td>
</tr>
<tr>
<td>Output Shaft Bearings</td>
<td>100,000 hr</td>
<td>100,000 hr</td>
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</tbody>
</table>

*Intermediate shaft on double reduction gear boxes
**Benefit Detail**

Better Warranty:

- Warranty covers the entire unit, even bearings and seals
- System 5 Geareducer (models 10.1 through 3000) warranty for new towers is five times Amarillo warranty—one year warranty for aftermarket

Easy Maintenance:

- Five year oil change interval with System 5 Geareducer can save $7,630 in maintenance costs compared to belt drive
- Output shaft sealed with maintenance-free labyrinth ring
- Proven splash lubrication — oil pump not required
- Runs cool — no auxiliary fan or oil cooler required
- Rebuild kits available — single consolidated shipment for everything needed to repair

**Features**

- Nitrile lip seal on input shaft
- Heavy duty gray cast iron castings
- Epoxy paint (minimum of two coats) on all external surfaces
- Factory run-in under load, with inspection
- Locking mechanism on support feet limits vibration to a minimum
- Short aftermarket lead-time (often same day/next day shipment for common sizes and ratios)

**Application Range**

- Horsepower up to 300+
- Ratios from 2.13 to 19.72

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**Marley System 5 Geareducer**

<table>
<thead>
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<tbody>
<tr>
<td>Warranty</td>
<td>5 years</td>
</tr>
<tr>
<td>Includes Bearings</td>
<td>yes</td>
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<tr>
<td>Includes Seals</td>
<td>yes</td>
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**No Hassle System 5 Geareducer**

<table>
<thead>
<tr>
<th></th>
<th>belt drive</th>
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<tbody>
<tr>
<td>Annual Maintenance</td>
<td>$624</td>
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<tr>
<td>5 Year Maintenance</td>
<td>$4,270</td>
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<tr>
<td>example savings</td>
<td>$7,630</td>
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</tbody>
</table>

**Options**

- Premium input/output seals (Inpro, Chesterton, etc)
- Triple epoxy paint for even further corrosion protection
- Low oil level switch
- Temperature switch / RTD
- Oil heater with thermostat
- Vibration transducer mounting
- Anti-reversing device
  - External S316 stop-bracket style
  - Internal sprag clutch backstop
- Wide range of output shafts (tapered or straight)
- Oil mist fittings
- Engineered retrofit mounting kits for other manufacturer's gear boxes
- Other custom engineering solutions