Omni Builds The Best Wheeldrives in the Business!

- **External V-Ring Seals**: Provide additional barrier against debris and corrosion.
- **Input Shaft Seals**: Triple lip for maximum protection.
- **Thrust Bearings**: On input shaft have highest load rating.
- **Input Caps**: High tensile castings with water drainage system and tapped holes for easy installation of DPS-100 drivetrain protection system.
- **Surface Finish**: Worms are either precision ground to 32 Ra or precision finished to 125 Ra for higher efficiency rating.
- **Input Shaft Protector**: Gold zinc dichromate plated for maximum corrosion resistance.
- **Worm Shafts**: Made from either high carbon hardened steel or alloy heat treated and ground steel.
- **Bull Gears**: Made from either high tensile castings or are centrifugally cast aluminum bronze.
- **Expansion Camber**: Internal bellows 12 cu.in. or big chamber™ 39 cu.in. units available.
- **Smooth Surface**: On output hub reduces mud build-up.
- **Steel Output Shaft**: Takes highest axial & torsional loads.
- **Double Welded**: Output shaft & flange enables usage of the largest tires & wheels.
- **Mud & Debris Excluder**: Labyrinth design provides for debris exclusion and internally installed oil seal with triple lips eliminate debris from penetrating gear case.
- **Custom Blended Lubricant**: Continuously coats gears during off-season to reduce internal corrosion and provide long-wear under extreme use conditions.
- **Internal Ribs**: On output hub provide overhung load strength.
- **Retaining Ring**: Locked in place between gear & bearing can not push off shaft under highest loads.

**Power**
Different conditions for various applications may result in a higher or lower power capacity.

**Oil Seals**: Single, double and triple lip nitrile as well as Viton seals available.

**Bearings**: Geardrives available with various bearing life options.

**Lubrication**: Drives available with various lubes depending on operating characteristics.
### OFD-50 Series Standard Worm Gear Wheeldrives

**Specifications**
- **Torque Capacity:** 70,000 lb.-in. (7,909 Nm)
- **Ratio:** 50:1 (Others Available)
- **Shaft Size:** 2" (51 mm), 2.25" (57 mm), 2.5" (65 mm)
- **Weight:** 104 lbs. (47.2 kg), 108 lbs. (49.0 kg), 120 lbs. (54.4 kg)
- **Oil Capacity:** 133 fl.oz. (3.9 L), 126 fl.oz. (3.7 L), 104 fl.oz. (3.1 L)
- **Expansion Chamber:** Bellows Type
  - Multiple Mount Pattern Fits Most Pivots.

### OFD-50D Series Big Chamber™

**Specifications**
- **Torque Capacity:** 90,000 lb.-in. (10,170 Nm)
- **Ratio:** 50:1 (Others Available)
- **Shaft Size:** 2.5" (65 mm)
- **Weight:** 164 lbs. (74.4 kg)
- **Oil Capacity:** 215 fl.oz. (6.3 L)
- **Expansion Chamber:** Big Chamber™
  - DPS-100 Gearbox Guard mounts easily.
  - 39 Cubic Inch Expansion Area
  - Oil Level Plug Eliminates Over-Filling
  - Replaces Durst® and Zimmatic® Drives

### OFD-50EHT Series Extra Heavy

**Specifications**
- **Torque Capacity:** 80,000 lb.-in. (9,040 Nm)
- **Ratio:** 50:1 (Others Available)
- **Shaft Size:** 2.25" (57 mm)
- **Weight:** 120 lbs. (54.4 kg)
- **Oil Capacity:** 134 fl.oz. (3.9 L)
- **Expansion Chamber:** Big Chamber™
  - High Capacity Thrust Bearings on Worm.
  - 2" Face Width, High Contact Bull Gear.
  - Precision Finished Worm to 125 Ra.
  - 5.1" (131 mm) Gear Center Distance.

### OFD-50HD Series Heavy Duty

**Specifications**
- **Torque Capacity:** 90,000 lb.-in. (10,170 Nm)
- **Ratio:** 50:1 (Others Available)
- **Shaft Size:** 2.5" (65 mm)
- **Weight:** 164 lbs. (74.4 kg)
- **Oil Capacity:** 215 fl.oz. (6.3 L)
- **Expansion Chamber:** Bellows Type
  - 6.1" (156 mm) Gear Center Distance.
  - Highest Torque Wheeldrive Available.
  - Ideal for Hose Drag Linear Carts.
  - High Capacity Thrust Bearings on Worm.

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**Power:** Different conditions for various applications may result in a higher or lower power capacity.
**Oil Seals:** Single, double and triple lip nitrile as well as Viton seals available.
**Bearings:** Geardrives available with various bearing life options.
**Lubrication:** Drives available with various lubes depending on operating characteristics.
**OFD-50AB Series**

**Specifications**
- Torque Capacity: 70,000 lb.-in. (7,909 Nm)
- Ratio: 50:1 (Others Available)
- Shaft Size: 2.25” (57 mm)
- Weight: 108 lbs. (49.0 kg)
- Oil Capacity: 126 fl.oz. (3.7 L)
  - Precision Ground Worm to 32 Ra. Finish.
  - External Expansion or Big Chamber™ Housing.
  - Extends Drivetrain Life on High Speed Systems.
  - Centrifugally Cast Bull Gear Eliminates Impurities.

**OFD-50T Series**

**Specifications**
- Torque Capacity: 70,000 lb.-in. (7,909 Nm)
- Ratio: 50:1 (Others Available)
- Shaft Size: 2.25” (57 mm)
- Weight: 108 lbs. (49.0 kg)
- Oil Capacity: 126 fl.oz. (3.7 L)
  - Precision Ground Worm to 32 Ra. Finish.
  - External Expansion or Big Chamber™ Housing.
  - True Towable Design Eliminates Add-on Kits.
  - Relief Plug Protects from Over-Greasing.
  - Adjustable Bearing Lock Nut Eliminates Shims.
  - Cross Drilled Pin easily Stows while Towing.

**OFD-52V Series**

**Specifications**
- Torque Capacity: 70,000 lb.-in. (7,909 Nm)
- Ratio: 52:1 (Others Available)
- Shaft Size: 2.25” (57 mm)
- Weight: 130 lbs. (58.9 kg)
- Oil Capacity: 126 fl.oz. (3.7 L)
  - 12 Cubic Inch Expansion Area.
  - Replaces Valley® Drives.
  - Dual Inputs for Left or Right Mounting.
  - Class A Hobbed and Hardened Steel Worm.

**OFD-50GW Series**

**Specifications**
- Torque Capacity: 70,000 lb.-in. (7,909 Nm)
- Ratio: 50:1 (Others Available)
- Shaft Size: 2.25” (57 mm)
- Weight: 108 lbs. (49.0 kg)
- Oil Capacity: 126 fl.oz. (3.7 L)
  - Precision Ground Worm to 32 Ra. Finish.
  - Ideal for Extending Drive Train Life.
  - DPS-100 Gearbox Guard Mounts Easily.
  - Multiple Mount Pattern Fits Most Pivots.

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**Power:** Different conditions for various applications may result in a higher or lower power capacity.

**Oil Seals:** Single, double and triple lip nitrile as well as Viton seals available.

**Bearings:** Geardrives available with various bearing life options.

**Lubrication:** Drives available with various lubes depending on operating characteristics.
**OMNI GEAR®**

**IR-15 Series**

**Specifications**
- Torque Capacity: 4,500 lb.-in. (133 Nm.)
- Ratio: 50:1 and 30:1 (Others Available)
- Shaft Size: 1.0” (25.4 mm)
- Weight: 16 lbs. (7.3 kg)
- Oil Capacity: 11 fl.oz. (1.2 L)
- Motor Mount: NEMA 56C
  - Multi Mount Bolt Pattern fits All Pivots.
  - Heavy Duty Unit for Severe Conditions.
  - Lovejoy® Type Jaw Coupler included.
  - Low Distortion Nitrited Worm Shaft
  - 2.7” (68 mm) Gear Distance

**CK-50 Series**

**Specifications**
- Cross Drilled Pin easily stows while Towing.
- High Carbon Steel Tow Pin and Bracket will not Bend Under Load.
- Relief Plug protects from Over Greasing.
- Large Bearings for Improved Load Capacity.
- Easy Repairability with Bolt-on Dust Cover.

**PB-50 Series**

**Specifications**
- Cross Drilled Pin easily stows while Towing.
- High Carbon Steel Tow Pin and Bracket will not Bend Under Load.
- PTO Clip-Pin with Tab is easy to remove.
- Usable on all Towable Gearboxes and Conversion Kits.
- Anti-Corrosion Zinc Plated Pin.

**HTC Series**

**Specifications**
- Square: 3/4”, 7/8”, 1”
- Round: 7/8”, 1”, 1” w/ 1/4” Keyway
- High Strength Die Cast Coupler Jaws.
- Bead Blasted for Higher Torque & Strength.
- Dissipates Shock Loads to Other Components.
- Design provides Automatic Re-alignment.
- All Hardware included for Quick Installation.
- Fertilizer, Weather and UV Resistant.
- Complete Coupler Individually Poly Bagged.

**Power:** Different conditions for various applications may result in a higher or lower power capacity.

**Oil Seals:** Single, double and triple lip nitrile as well as Viton seals available.

**Bearings:** Geardrives available with various bearing life options.

**Lubrication:** Drives available with various lubes depending on operating characteristics.
**Irri-Torq™ Series**

**Helical Gear Center Drives**

Omni Gear sets the New World Standard!

- **Carburized Rotor Shaft**
  - Rotor Shaft is Carburized & Ground minimizing Distortion and Noise while Maximizing Life.

- **Internal Motor Cooling Fins**
  - For Rapid Heat Dissipation

- **Low Amp Draw Balanced Motor**
  - Extra Copper and Laminated Material require less Power Consumption

- **High Purity Copper & Insulation System**
  - Makes Motor Run Cool Extending Motor Life

- **Sealant Filled Joints**
  - Eliminate Moisture Penetration.

- **Corrosion Resistant Bolts**
  - Have Anti-Seize on Threads to allow for Independent Removal of Stator

- **Double Oil Seals**
  - Keeps Debris and Crop Wrappage from causing Oil Leaks

- **Sealed Large Dia. Ball Bearing**
  - Keeps Rotor Shaft Firmly Meshed with Intermediate Gear

- **2-Stage Shaved Helical Gearing**
  - Provides the most Efficient, Silent, and Largest Torque Drive in the Industry

- **Low Speed Gear**
  - Massive Gear Provides Largest Torque Capacity in the Industry. Industrial Design allows use of up to 2.5 Hp Motors for Tough Applications

- **Pre-Drilled Holes**
  - Provide for Easy Installation of the DPS-100 Shaft Protection System

- **Conduit Box**
  - Sealed Against Moisture while Allowing Drainage

- **Internal Motor Cooling Fins**
  - For Rapid Heat Dissipation

- **Motor Housing**
  - Made of Rolled Steel w/ Drain Holes and Two-Part Painted Prevents Moisture Build-Up and Oxidation

- **Sealed Large Dia. Ball Bearing**
  - Keeps Rotor Shaft Firmly Meshed with Intermediate Gear

- **Extra Thick Casting**
  - Strongest Gear Casing in the Industry keeps Gears from Separating Under Load

- **Mud & Debris Excluder**
  - Labyrinth Design provides for Debris Exclusion and Internally Installed Dual Oil Seals with Double Lips Eliminate Debris from Penetrating Gear Case

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**Power:** Different conditions for various applications may result in a higher or lower power capacity.

**Oil Seals:** Single, double and triple lip nitrile as well as Viton seals available.

**Bearings:** Geardrives available with various bearing life options.

**Lubrication:** Drives available with various lubes depending on operating characteristics.
**Irri-Torq™ Series**

**Helical Gear Center Drives**

**Specifications**
- Highest torque center drive available.
- Carburized gears for higher strength.
- 2 stage efficient helical gear reduction.
- Large low speed gear for higher torque.
- Ti® Klixon® thermal protector.
- CSA & CE approved motor.
- Universal Mounting Pattern.

<table>
<thead>
<tr>
<th>Gearbox Output Shaft Speed</th>
<th>Low</th>
<th>Medium</th>
<th>Medium-High</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>460 Volts AC:</td>
<td>28 rpm</td>
<td>43 rpm</td>
<td>56 rpm</td>
<td>86 rpm</td>
</tr>
<tr>
<td>380 Volts AC:</td>
<td>23 rpm</td>
<td>35 rpm</td>
<td>47 rpm</td>
<td>72 rpm</td>
</tr>
<tr>
<td>Gearbox Ratio:</td>
<td>40:1</td>
<td>40:1</td>
<td>30:1</td>
<td>40:1</td>
</tr>
<tr>
<td>Motor Horsepower:</td>
<td>.5 HP</td>
<td>.75 HP</td>
<td>1.0 HP</td>
<td>1.5 HP</td>
</tr>
<tr>
<td>Poles in Motor:</td>
<td>6</td>
<td>4</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Motor RPM</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>460 Volts AC:</td>
<td>1,150 rpm</td>
<td>1,725 rpm</td>
<td>1,725 rpm</td>
<td>3,490 rpm</td>
</tr>
<tr>
<td>380 Volts AC:</td>
<td>930 rpm</td>
<td>1,425 rpm</td>
<td>1,425 rpm</td>
<td>2,850 rpm</td>
</tr>
<tr>
<td>Service Factor:</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>Oil Capacity:</td>
<td>56 fl.oz.</td>
<td>56 fl.oz.</td>
<td>56 fl.oz.</td>
<td>56 fl.oz.</td>
</tr>
<tr>
<td>Weight:</td>
<td>64 lbs.</td>
<td>63 lbs.</td>
<td>64 lbs.</td>
<td>65 lbs.</td>
</tr>
</tbody>
</table>

**Irri-Torq™ Series**

**NEMA Center Drive**

**Specifications**
- NEMA 56 Frame Mount allows usage of Wide Variety of Motors.
- 30:1 and 40:1 are Standard Ratios.
- Highest torque center drive available.
- Carburized gears for higher strength.
- 2 stage efficient helical gear reduction.
- Other Ratios Available upon Request.
- Multi-mount bolt pattern fits all pivots.
- DPS-100 Gearbox Guard mounts easily.

<table>
<thead>
<tr>
<th>Gearbox Ratio:</th>
<th>30:1</th>
<th>40:1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil Capacity:</td>
<td>56 fl.oz.</td>
<td>56 fl.oz.</td>
</tr>
<tr>
<td>Weight:</td>
<td>35 lbs.</td>
<td>35 lbs.</td>
</tr>
<tr>
<td>Torque Capacity:</td>
<td>8,700 lb.-in.</td>
<td>10,000 lb.-in.</td>
</tr>
</tbody>
</table>

**Power:** Different conditions for various applications may result in a higher or lower power capacity.

**Oil Seals:** Single, double and triple lip nitrile as well as Viton seals available.

**Bearings:** Geardrives available with various bearing life options.

**Lubrication:** Drives available with various lubes depending on operating characteristics.
**Specifications**
- The Only System Available that Completely Protects Drivetrain from Crop Wrappage.
- Polyethylene Plastic withstands UV Rays and is Weatherproof.
- Telescopic Tubing and End Bells easily “Snap” Into Place and Will Not Rotate.
- Exceeds European CE Safety Standards.

Driveline Shields

Patent Pending

Shaft Protector

Irri-Torq™ Centerdrive

Gearbox Guard

Driveline Endbell

Telescopic Tubing

Telescopic Tubing

OFD-50 Wheeldrive

OMNI GEAR

IM Series

**Specifications**
- NEMA 56C face motor mount.
- 360/480 volts AC 50/60 Hz multiphase.
- 1.5 True rated horsepower.
- CSA and CE approved.
- Removable Drain Plugs for either Vertical or Horizontal Mounting.
- TPI Klixon® thermal protector.
- Fan Cooled w/Steel Fan Guard & Drip Cover
- Motor by Leeson® Electric.

Electric Motors

Shaft Protector

Shaft Protector

OMNI GEAR

**Warranty**
Omni Gears’ Enclosed Gear Drives are warranted to be free of defects in material or workmanship and to meet Omni Gears specifications at the time of sale. For a copy of our warranty please contact Omni Gear.

**Product Information**

The data presented in this catalog is for general information and preliminary layout purposes only. Omni Gear, through its policy of continuous improvement reserves the right to change specifications without notice. For specific application and dimensional information, please contact Omni Gear.

The different conditions for various applications may result in higher or lower power capacity. For these reasons, the ratings contained herein cannot be guaranteed for any application. Prototype testing should be conducted for each application before production.
Dear Valued Customer:

**Standard Terms and Conditions of Sale**

The following letter serves to define Omni Gear’s Warranty policy effective January 1, 2006. Omni Gear warrants its Products to be free defects in materials and workmanship when installed and maintained consistent with Omni Gear’s specifications. Unless otherwise specified below, each Product is warranted for a period of 12 months from the date of retail delivery or 18 months from the date of shipment from Omni Gear’s facility, whichever shall first occur. All replacement or spare parts supplied by Omni Gear are warranted for a period of 3 months from the date of shipment from Omni Gear’s Facility.

Should any part of an Omni Gear Product be found, under normal use and service, during the warranty period, to be defective, Omni Gear shall repair or replace, at its sole option, said part FOB Omni Gear’s facility, Houston, Texas, provided the defective gear drive, in whole, is returned to Omni Gear’s facility, charges prepaid, accompanied by a Return Goods Authorization Number (“RGA”) and defect report detailing the claimed defect, and provided inspection of the original Product establishes the claimed defect to the satisfaction of Omni Gear. In the event a warranty claim is denied, an Omni Gear Customer Service representative shall contact the customer and advise of the cost to repair the Product not covered under warranty. If the customer requests the Product be repaired, the repaired Product shall carry a Manufacturer’s Remanufactured Warranty of 6 months from the date of remanufacture.

**Warranty Disclaimer and Limitations of Liability**

Omni Gear makes no other warranties. No warranty of merchantability or fitness for a particular purpose is implied. Omni Gear’s liability under this warranty is limited to the conditions stated herein. OMNI GEAR SHALL NOT IN ANY EVENT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGE including, but not limited to expenses, attorney fees, loss of income or profits due to delay or defective material or workmanship and no allowance will be made for repairs, replacements, transportation or freight charges, or alterations UNLESS authorized in writing by

Omni Gear. Omni Gear’s warranty is subject to change without notice. This warranty shall not apply to any Product upon which repairs or alterations have been made, improper lubrication including type and frequency, excessive shock loading, improper application or for misused, neglected or incorrectly installed Product. This warranty shall not apply in the event proper gearbox lubrication and service is not maintained.

All gearbox Product lubrication must be flushed and refilled after the first 100 hours of service, and then every 1000 hours thereafter. This warranty shall not apply to seals in the event they have been subjected to heat in excess of 200 degrees, paint, solvents or other chemicals in the assembly or painting processes. Any Omni Gear Product that remains unused for a period of 6 consecutive months during the warranty period shall not be warranted for leakage due to seal aging. The warranty for bearings shall be limited to the warranty provided by the bearing manufacturer. No Product will be eligible for warranty if rust or corrosion has started on internal surfaces.

The terms and conditions set forth herein, together with any amendments, modifications and any different terms or conditions expressly accepted by Omni Gear in writing, shall constitute the entire Agreement concerning the Product sold, and there are no oral or other representations or agreements which pertain thereto. This Agreement shall be governed in all respects by the law of the State of Texas. Legal proceedings arising out of the terms of Omni Gear’s warranty must be commenced within one (1) year of the accrual of the cause of action or be forever barred.

**Exceptions**

Exceptions to Omni Gear’s stated Warranty Policy must be in writing, and made a part of this Limited Warranty. Customer Product Group Limited Warranty Effective Date