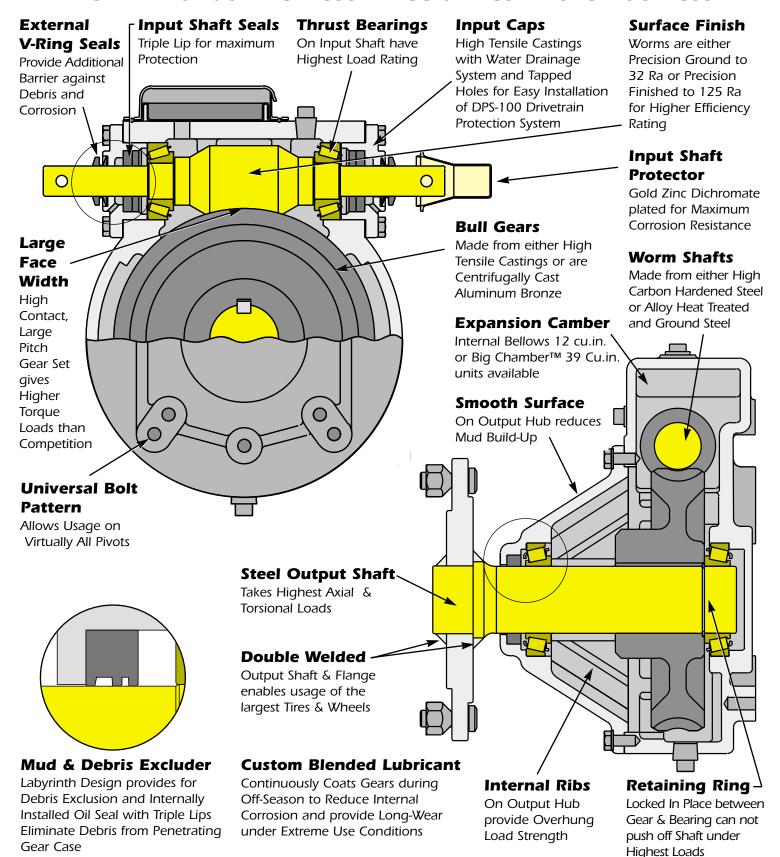




# **Worm Gear Wheel Drives**

### **Omni Builds The Best Wheeldrives in the Business!**





**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.

### **OFD-50 Series**

### **Standard**

# **Worm Gear Wheeldrives**

### **Specifications**

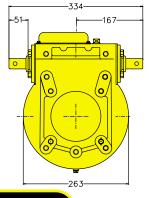
Torque Capacity: 70,000 lb.-in. (7,909 Nm.) Ratio: 50:1 (Others Available) Shaft Size: 2.5" 2.25" (51 mm) (57 mm) (65 mm) Weight: 104 lbs. 108 lbs. 120 lbs.

(47.2 kg) (49.0 kg) (54.4 kg)

Oil Capacity: 133 fl.oz. 126 fl.oz. 104 fl.oz

(3.7 L) (3.1 L) (3.9 L)

Expansion Chamber: Bellows Type Multiple Mount Pattern Fits Most Pivots.



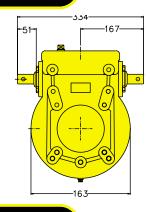
# **OFD-50D Series**

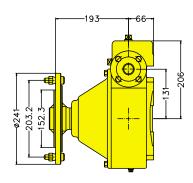
### Big Chamber™

### **Specifications**

Torque Capacity: 70,000 lb.-in. (7,909 Nm) 50:1 (Others Available) Ratio: Shaft Size: 2.25" (57 mm) Weight: 110 lbs. (49.0 kg) Oil Capacity: 126 fl.oz. (3.7 L) Big Chamber™ Expansion Chamber:

- DPS-100 Gearbox Guard mounts easily.
- 39 Cubic Inch Expansion Area
- Oil Level Plug Eliminates Over-Filling
- Replaces Durst® and Zimmatic® Drives





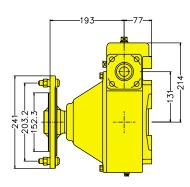
### **OFD-50EHT Series Extra Heavy**

### **Specifications**

Torque Capacity: 80,000 lb.-in. (9,040 Nm) 50:1 (Others Available) Ratio: 2.25" (57 mm) Shaft Size: 120 lbs. (54.4 kg) Weight: 134 fl.oz. (3.9 L) Oil Capacity: Biq Chamber™ Expansion 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.

# -185



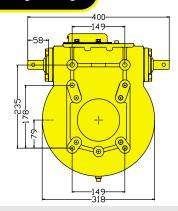
### OFD-50HD Series

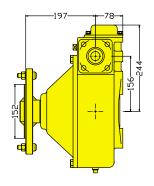
### **Heavy Duty**

### **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.







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.

# **OFD-50AB Series**

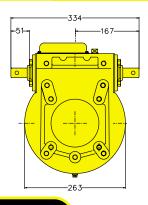
### High Speed Aluminum Bronze

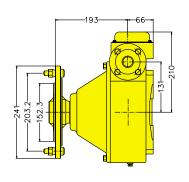
# **Worm Gear Wheel Drives**

### **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.



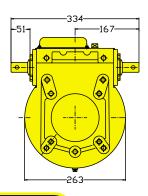


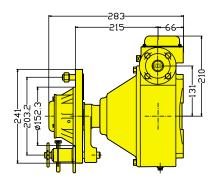
### **OFD-50T Series True-Tow Towable**

### **Specifications**

Torque Capacity: 70,000 lb.-in. (7,909 Nm) 50:1 (Others Available) Ratio: Shaft Size: 2.25" (57 mm) Weight: 130 lbs. (58.9 kg) Oil Capacity: 126 fl.oz. (3.7 L)

- 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.





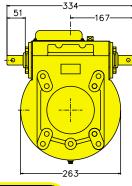
# **OFD-52V Series**

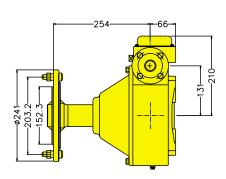
### **Specifications**

Torque Capacity: 70,000 lb.-in. (7,909 Nm) Ratio: 52:1 (Others Available) 2.25" (57 mm) Shaft Size: 112 lbs. (50.8 kg) Weight: Oil Capacity: 126 fl.oz. (3.7 L) Expansion Chamber: Bellows Type

- 12 Cubic Inch Expansion Area.
- Replaces Valley® Drives.
- Dual Inputs for Left or Right Mounting.
- Class A Hobbed and Hardened Steel Worm.

### Valley® Type





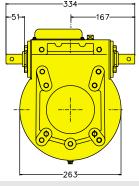
# **OFD-50GW Series**

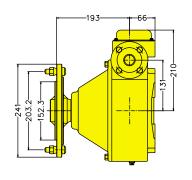
### **Specifications**

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) 126 fl.oz. (3.7 L) Oil Capacity: Expansion Chamber: **Bellows Type** 

- 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.

### **Extended Life Ground Worm**





**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.



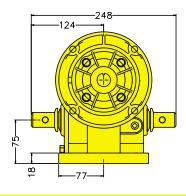
# **IR-15 Series**

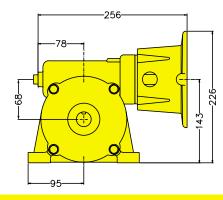
# **Worm Gear Center Drives**

### **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



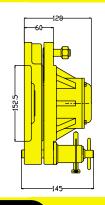


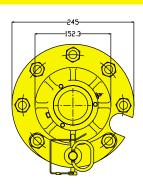
# CK-50 Series

# Specifications

- Converts Standard Drive to Towable Drive.
- Adjustable Bearing Locknut eliminates Shims.
- Cross Drilled Pin easily stows while Towing.
- Unique Triple Lip Spindle Seal Design.
- 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.

# **Towable Conversion Kits**



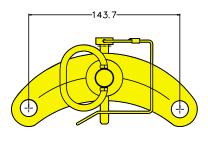


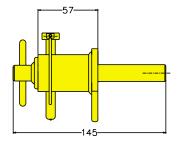
### **PB-50 Series**

### **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.

# **Pin & Bracket Assemblies**





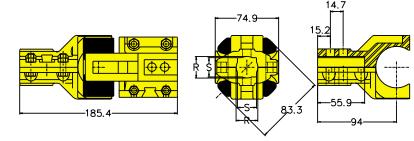
# **HTC** Series

### **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.

# **Drive Line Couplers**



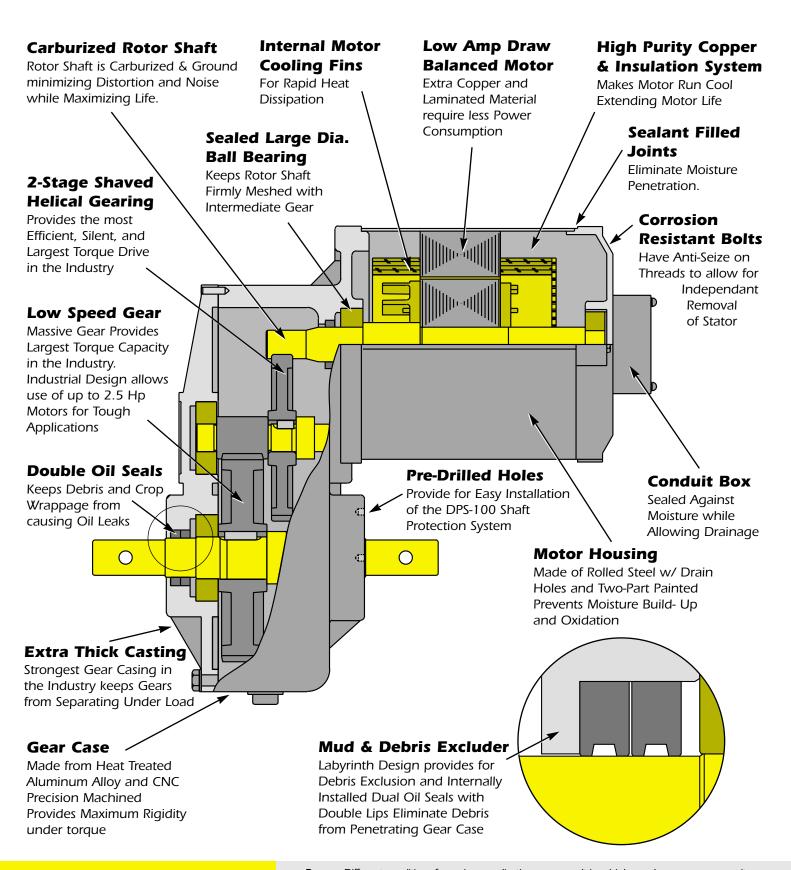


**Power:** Different conditions for various applications may result in a higher or lower power capacity.

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

Bearings: Geardrives available with various bearing life options.

### **Omni Gear sets the New World Standard!**





**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.

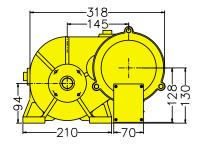
**Bearings:** Geardrives available with various bearing life options.

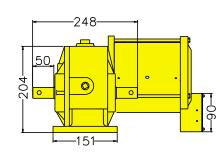
# **Irri-Torq**™ **Series**

# **Helical Gear Center Drives**

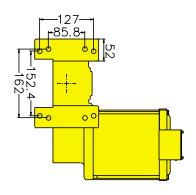
### **Specifications**

- 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





Speed Range:	Low	Medium	Medium-High	High
Gearbox Output Shaft Speed				
460 Volts AC:	28 rpm	43 rpm	56 rpm	86 rpm
380 Volts AC:	23 rpm	35 rpm	47 rpm	72 rpm
Gearbox Ratio:	40:1	40:1	30:1	40:1
Motor Horsepower:	.5 HP	.75 HP	1.0 HP	1.5 HP
Poles in Motor:	6	4	4	2
Motor RPM				
460 Volts AC:	1,150 rpm	1,725 rpm	1,725 rpm	3,490 rpm
380 Volts AC:	930 rpm	1,425 rpm	1,425 rpm	2,850 rpm
Service Factor:	1.0	1.0	1.0	1.0
Oil Capacity:	56 fl.oz.	56 fl.oz.	56 fl.oz.	56 fl.oz.
	1.6 L	1.6 L	1.6 L	1.6 L
Weight:	64 lbs.	63 lbs.	64 lbs.	65 lbs.
	29 kg	28.5 kg	29 kg	29.5 kg



# **Irri-Torq**<sup>™</sup> **Series** NEMA Center Drive

### Specifications

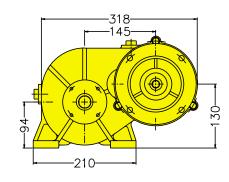
- NEMA 56 Frame Mount allows usage of Wide Variety of Motors
- 30:1 and 40:1 are Standard Ratios.
- Highest torque center drive available.
- Carburized gears for higher strength.
- 2 stage efficient helical gear reduction.
- Other Ratios Available upon Request.
- Multi-mount bolt pattern fits all pivots.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

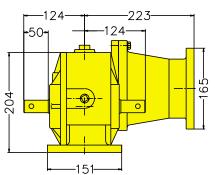
Gearbox Ratio: 30:1 40:1
Oil Capacity: 56 fl.oz. 56 fl.oz.
1.6 L 1.6 L

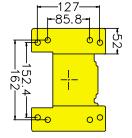
Weight: 35 lbs. 35 lbs. 15.9 kg 15.9 kg

Torque Capacity: 8,700 lb.-in. 10,000 lb.-in.

983 Nm 1,130 Nm









**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.

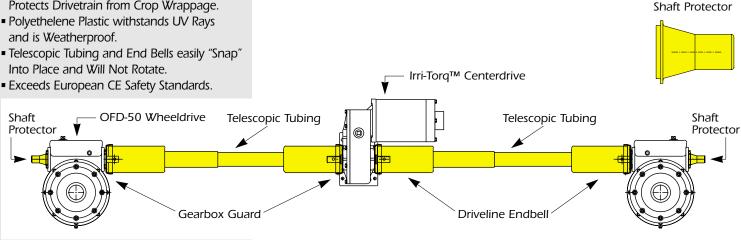
**Bearings:** Geardrives available with various bearing life options.

### **DPS-100**

# **Driveline Shields**

### **Specifications**

- The Only System Available that Completely Protects Drivetrain from Crop Wrappage.
- and is Weatherproof.
- Into Place and Will Not Rotate.
- Exceeds European CE Safety Standards.



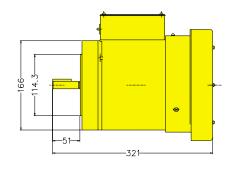
Patent Pending

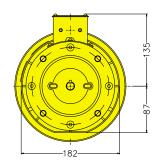
# **IM Series**

# **Electric Motors**

### **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.
- TI® Klixon® thermal protector.
- Fan Cooled w/Steel Fan Guard & Drip Cover.
- Motor by Leeson® Electric.





# Warranty

# **Product Information**

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.

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.



7502 Mesa Road D Houston, Texas 77028 Phone: 713-635-6331 - Fax: 713-635-6360

E-mail: Sales@OmniGear.com DWeb: www.OmniGear.com

Copyright © 1999 • Omni Gear, division of Omni USA, Inc.