

LEADING DESIGNERS, MANUFACTURERS AND DISTRIBUTORS OF IRRIGATION POWERTRAINS

OMNI

POWERTRAIN TECHNOLOGIES

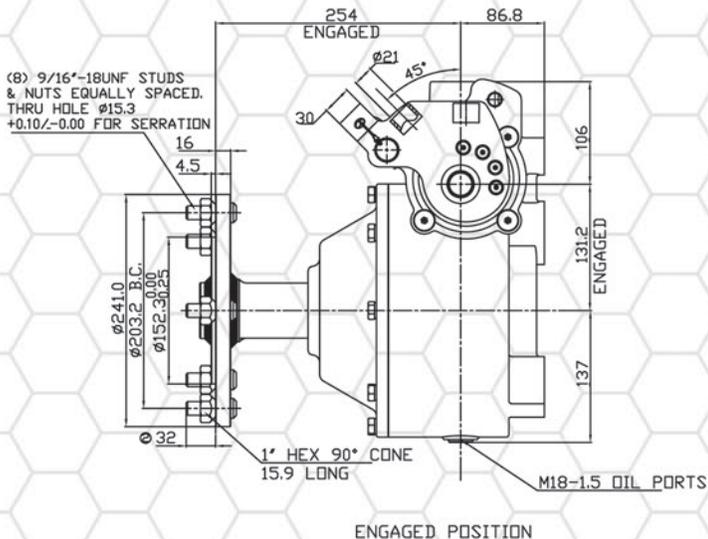
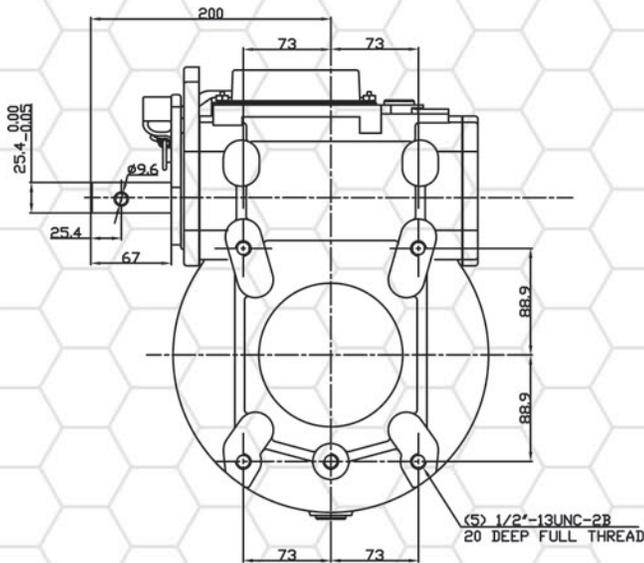
**IRRIGATION
POWERTRAIN** | **WHEEL DRIVES,
CENTER DRIVES &
SHOCK COUPLERS**



OMNIGEAR®

OMNIGEAR® OFD-50PG2 TOWABLE WHEEL DRIVE

The OFD-50PG2 is a revolutionary design in the wheel drive industry. With a fully disengaging worm gear, the OFD-50PG2 can quickly and easily be turned into a towable drive. The single cam design allows for zero adjustment over the life of the unit, regardless of the number of cycles. This eliminates the costly procedure of adjusting the worm gear on your shiftable wheel drives.



PRODUCT FEATURES

Standard features include our patented disengaging worm, high axial and radial load capability with a single cam design. **OmniGear®** Disengaging Worm Drives retain perfect gearmesh and universal double input.



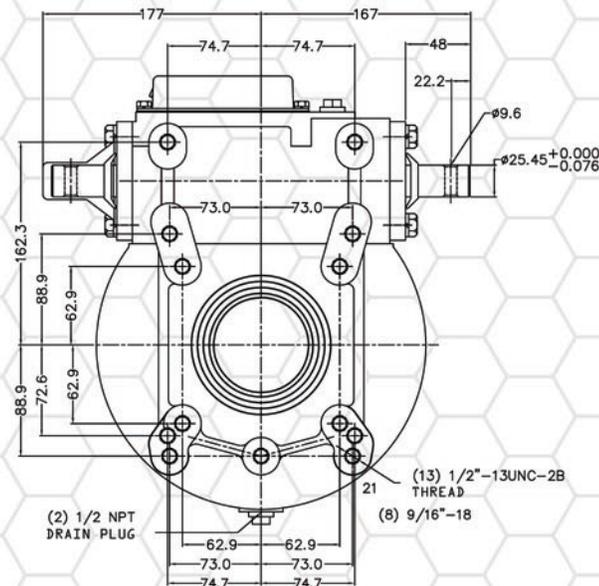
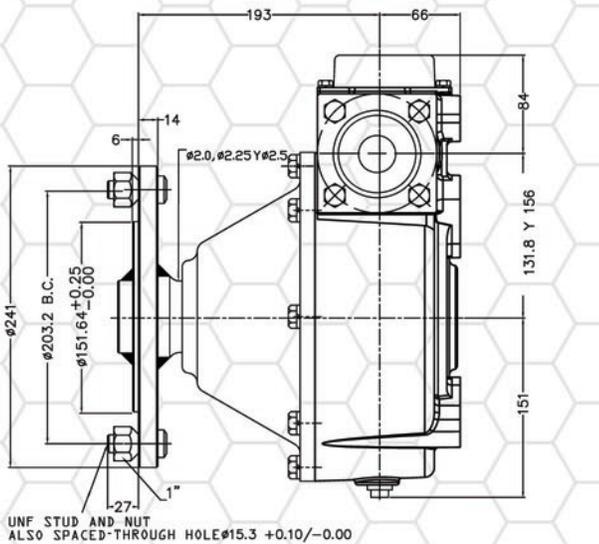
- PATENTED SINGLE CAM DESIGN AND UPPER SEAL PLATE DESIGN CREATE ONE OF A KIND PERFORMANCE AND DURABILITY
- PRY SLOT FOR EASY ENGAGEMENT AND DISENGAGEMENT
- HIGH TENSILE GEAR MATERIAL INCREASES PEAK TORQUE AND OVERALL GEAR LIFE
- ADVANCED EXCLUDER AND SEAL PLATE DESIGN ELIMINATES PREMATURE OIL LEAKAGE FROM SHIFTING
- SINGLE CAM DESIGN ELIMINATES TIMING ISSUES INCREASING QUALITY OF GEAR MESH WHICH IMPROVES TORQUE AND LIFE

OFD-50 PG-2 TOWABLE WHEEL DRIVE

RATIO	50:1
CAPACITY (N-m / In-lb)	7,909 N-m / 70,000 In-lb
OUTPUT SHAFT DIAMETER	2.25" (57.15mm)

OMNIGEAR® OFD-50-G2 WHEEL DRIVE

Designed to offer universal wheel drive solutions for the irrigation powertrain market, the **OmniGear®** OFD-50 Series is available in numerous ratios and mounting styles. Extensively field tested to ensure longevity, the OFD-50-G2 can be configured to fit any center pivot irrigation system available.



PRODUCT FEATURES

Standard features include a stainless steel expansion chamber, flanged no-leak SAE O-Ring plugs, un-used shaft protector, and mounting holes for affixing our patented **OmniGear®** snap-together, non-rotating, DPS safety guards.

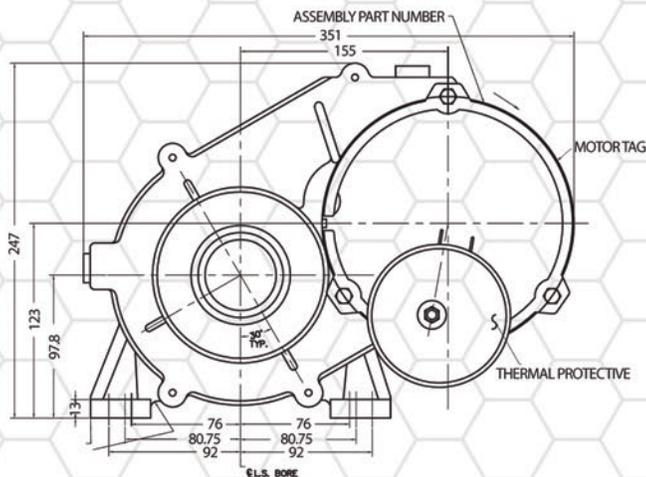
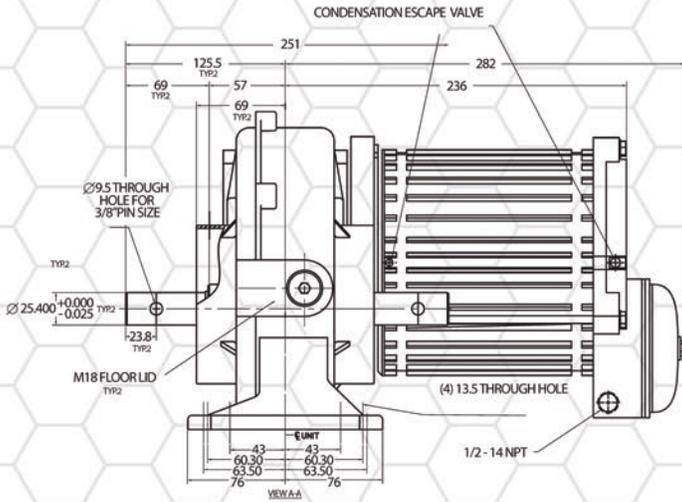


- AVAILABLE WITH LIP SEALS OR CARTRIDGE SEALS AND EXCLUSIVE DEBRIS EXCLUDER DESIGN.
- LARGE INPUT SHAFT BEARINGS WITH GREATER CAPACITY BETTER ABSORB THE REACTION LOAD OF THE GEARS WHEN UNDER PRESSURE.
- TESTS PROVE THAT THE DESIGN OF THE GEARTRAIN EXCEEDS OTHERS IN THE MARKET.
- NEW GEAR MATERIALS USED FOR HIGHER TORQUE AND EXTENDED SERVICE LIFE. GEARBOX COMES WITH LUBRICATION.
- INTERNAL EXPANSION CHAMBER WITH TWO CAPACITIES (0.19 LITERS AND 0.63 LITERS) AND COMES WITH AN UNUSED SHAFT PROTECTOR.

OFD	50	50EHT	50HD	52V
RATIO	50:1	50:1	50:1	52:1
CAPACITY (N-m / In-lb)	7,909 N-m 70,000 In-lb	9,040 N-m 80,000 In-lb	10,170 N-m 90,000 In-lb	7,909 N-m 70,000 In-lb
OUTPUT SHAFT DIAMETER	2" (50.8mm) 2.25" (57.15mm) 2.5" (63.5mm)	2.25" (57.15mm)	2.5" (63.5mm)	2.25" (57.15mm)

OMNIGEAR® IR-922® IRRIGATION CENTER DRIVE

The Irri-Torq™ Series of helical gear center drives are the highest torque center drives available. Engineered for strength and reliability, Irri-Torq™ center drives are made with carburized gears, TI KLIXON® thermal protection, and CSA & CE approved motors. OmniGear's helical center drive gearbox uses honed tooth gearing and is available with various output shaft speeds and motor ratings.



PRODUCT FEATURES

With dual lip shaft seals and SAE O-Ring plugs, Irri-Torq center drives are built tough. Featuring a stainless motor coupled with a two way drain valve plug to prevent corrosion, the patented, snap together, and non-rotating DPS safety guards offer superior protection and longevity.



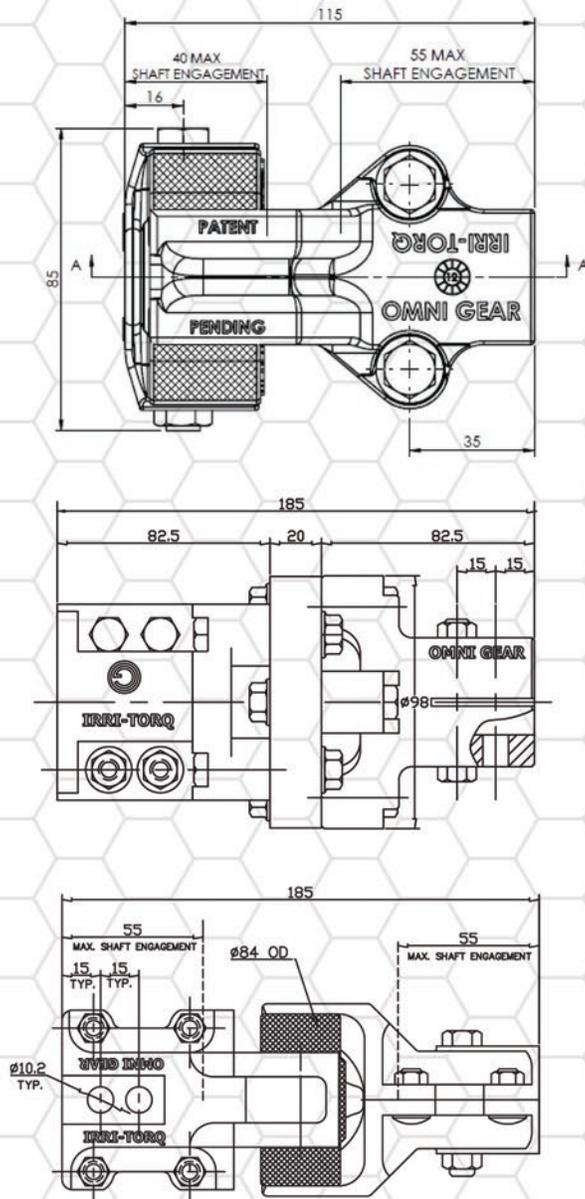
- CARBURIZED AND HONED AUTOMOTIVE GEARING FOR LOWER NOISE AND HIGHER RUNNING TORQUE.
- MOTOR HAS ALUMINUM EXTRUDED HOUSING FOR BETTER COOLING.
- CARBURIZED AND HONED ROTOR SHAFT MINIMIZES NOISE AND INCREASES SERVICE LIFE.
- CLIX-ON TYPE THERMAL PROTECTOR PROTECTS MOTOR FROM OVERLOADS.
- AVAILABLE IN VARIOUS OUTPUT SPEEDS AND WITH DIFFERENT MOTOR HP LEVELS.
- POPPET VALVES PROTECT MOTOR CAN FROM CONDENSATION.

IR-922 CENTER DRIVE

MOTOR POWER (HP)	0.75	.075	0.75	1.5	1.5
GEARBOX UNIT RATIO (REDUCTION)	40	30	52	40	52
RATED MOTOR VOLTAGE (V)	460 380	460 380	460 380	460 380	460 380
FREQUENCY (Hz)	60 50	60 50	60 50	60 50	60 50
RATED GEARMOTOR SPEED (RPM)	44 36	59 48	34 28	88 72	67 55
LOCKED GEARMOTOR TORQUE (Nm)	697 613	523 460	906 798	891 829	1158 1078

OMNIGEAR® IRRI-TORQ® SHOCK COUPLER

The HTC Irri-Torq® Series of spider couplers has been designed to give major manufacturers a reliable drive line coupler that can handle not only high stress loads, but endure long periods of use. With an aluminum housing and gold zinc fasteners, Irri-Torq® couplers offer incredible corrosion resistance in even harsh environments and conditions.



PRODUCT FEATURES



STANDARD COUPLER

- NOVEON POLYURETHANE INSERT
- GOLD ZINC FASTENERS
- HIGH TENSILE ALUMINUM ALLOY
- VCI FILM BAG INDIVIDUALLY PACKED
- BATCH CODED FOR TRACEABILITY
- COMPENSATES FOR SHAFT MISALIGNMENT

UNIVERSAL, HIGH TORQUE COUPLER

- FITS ALL METRIC AND INCH SQUARE BAR SIZES
- REPLACEABLE FLEX DISC
- GOLD ZINC DICHROMATE PLATED
- HIGH TORQUE TRANSMISSION
- FOR TOUGH APPLICATIONS
- CAN BE USED FOR ALL MAKES AND MODELS OF PIVOTS AND LINEAR DRIVES

COMPACT COUPLER

- 3" SHORTER AND MORE COMPACT DESIGN
- SAVES ALUMINIUM AND SAVES MONEY
- NOVEON POLYURETHANE INSERT
- CENTER PIECE HEAT TREATED FOR DURABILITY
- VCI FILM BAG INDIVIDUALLY PACKED
- ABSORBS STARTUP TORQUE WHEN MOTOR STARTS AND COMPENSATES FOR MISALIGNMENT

PART

SQUARE DIAMETER

ROUND GEARBOX SHAFT DIAMETER

STANDARD COUPLER	3/4", 7/8" SQUARE	1" ROUND
UNIVERSAL HIGH TORQUE COUPLER	ADJUSTABLE FROM 1" SQUARE TO 3/4" SQUARE	1" ROUND
COMPACT COUPLER	7/8" SQUARE	1" ROUND

SHIFTING THE BALANCE OF POWER

INNOVATORS AND GLOBAL MANUFACTURERS OF POWERTRAIN SOLUTIONS

OMNI Powertrain Solutions has created the most compact, powerful, light-weight axial flux electric motor powertrain systems on earth. Innovation is our core value, and whether we are manufacturing mechanical drivelines for agricultural equipment, hydrostatic powertrain systems for off-highway equipment or state-of-the-art electric powertrain systems for commercial vehicles and motorsports, we strive to exceed the power and quality demanded by our clients no matter their industry.

REGGIO EMILIA
ITALY

SHANGHAI
CHINA

HOUSTON
TEXAS

Our diverse family of manufacturing firms ensure that **OMNI** always provides unparalleled service, distribution and support. From conception through development we have a single objective: to provide the highest performance electric, hydrostatic and mechanical powertrain systems that meet the objectives of our clients.

OMNI

POWERTRAIN TECHNOLOGIES

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THE FOLLOWING PRODUCT LINES ARE PART OF THE **OMNI POWERTRAIN FAMILY**

