

# H BRID Vehicle

## DUECO's Plug-In Hybrid Electric Vehicle (PHEV)

(powered by ODYNE)

now available as an option on  
the Terex Commander 4047.



- ✦ DUECO's PHEV eliminates on-site emissions and engine noise by utilizing a high capacity battery system for its **ALL ELECTRIC** operating mode.
- ✦ Electrical energy is used to power all boom hydraulic functions and the in cab climate control system for a full work day, **WITHOUT** the use of the diesel engine.
- ✦ Our unit has the **OPTION** of recharging through the use of clean, low cost electric power or through the diesel engine!
- ✦ Our **"PLUG-IN"** capability allows for fuel savings over other hybrid systems, by offsetting the consumption of fuel with standard grid power. Grid power is **LESS THAN 1/2** the price of diesel fuel.

## Benefits of a PHEV unit

- Reduced fuel consumption/emissions from Hybrid Drive & Plug-in option.
- Reduced noise, from Engine idle elimination.
- Utilize stock engine and transmission.
- 100% Stationary Electric Mode  
Boom, HVAC, AC power sources.

PHEV - DIESEL ELECTRIC

Patents Pending

# Partners in Green Technology for the Utility Industry



## C4047

Terex Commander Digger Derrick  
ORA with Turret Mounted Winch

Sheave Height	47.4 ft. (14.4m)
Horizontal Reach	37.5 ft. (11.4m)
Digging Radius	26.0 ft. (7.9m)
Boom Travel	-20 to +80°
Maximum Capacity	24,750 lbs.
Capacity @ 10 ft. Radius	11,000 lbs.

## ADDITIONAL FEATURES

- Dual Lift Cylinders
- 15,000 lb. Bare Drum Capacity Worm Gear Winch
- 12,000 ft.-lb. Two-speed Digger with Hydraulic Shift
- Hydraulic Overload Protection
- Hydraulic Tool Power Below Rotation
- Open Style Command Post with Dual Joystick Pilot Operated Controls
- HD A-Frame Outriggers

## INTERNATIONAL

2008 4300 SBA 4X2

Engine, Diesel	IHC MaxxForceDT
	255 HP, 660lb Torque
Transmission, Automatic	Allison 3500_RDS_P
Front (GAWR, rated)	14,000 lbs.
Rear (GAWR, rated)	23,000 lbs.
Total (GVWR, rated)	37,000 lbs.

## PHEV SYSTEM

- Derrick, 0 emissions, operating time = 4 hr. (Est.)
- Battery Capacity = 35 kWh
- Plug-in recharge time = 8 hours (Approx.)
- On Board Power Charger = 5 kW, 240 VAC
- Diesel Powered Recharge Capability
- Motor size 50 kW, Regen & Traction assist
- Electric A/C 13,500 Btu - upgrades available
- Exportable Power = 6 kW to 30 kW continuous
- Charging Station



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