

H BRID Vehicle

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

(powered by ODYNE)

now available as an option on
the **Terex Hi-Ranger HRX55**.



- ✦ 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 additional 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



HRX55

Terex Hi-Ranger Overcenter
Material Handling Aerial Device

Working Height	60.3 ft. (18.4m)
Overcenter Side Reach	48.3 ft. (14.7m)
Lower Boom Articulation	0° to 118°
Upper Boom Articulation	0° to 194°
Platform Capacity	600 lbs. (272.1kg)

ADDITIONAL FEATURES

- 2 Foot Bucket Lifter
- Hydraulic Platform Rotator
- Hydraulic Articulating Jib and Winch (2,000 lbs.)
- Hydraulic Jib Extension Under Load
- Hydraulic Tool Outlets
- 12 Volt Auxiliary Letdown
- X-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

- Aerial lift, 0 emissions, operating time = 8 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 = 6kW to 30 kW continuous
- Charging Station



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