

Optima 55 All-Electric Bucket Truck

All-Electric Bucket Truck

The world's first all electric bucket truck in production is available from Terex. Designed to serve the utility industry, it combines an International eMV chassis, Optima aerial device, and the HyPower SmartPTO to bring you a new green solution for your distribution fleet. This unit provides you the opportunity to meet your sustainability goals, lower your operating cost and improve job site conditions for your team members and customers.

International eMV Chassis: Class 7, 33,000 GVW, 4x2 singlerear axle chassis with a 135 mile range.

HyPower SmartPTO: All boom and outrigger functions are powered by a HyPower SmartPTO. The 28.8 kWh ePTO battery pack is enough to power the boom and outriggers for a full day of work¹.

Optima Aerial: This aerial device offered either as the Optima HR55 overcenter or the noncompensated, non-overcenter Optima TC55 aerial.





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CHASSIS

Key Features:

- Maintenance-free direct drive electric motor
- Day cab made of high strength, low-alloy steel
- 3 Levels of regenerative braking and air disc brakes with ABS
- 4 Channel electronic stability program with traction control
- Digital instrument cluster
- Powerful heating and air conditioning
- **OnCommand Connection Telematics**
- Air-Ride cab for operator comfort and driveability

Charging² Features:

- Level III (DC fast charge).
 - Approximately 90 minutes with 120/80 kW DC charger
 - Approximately 3-8 hours of full recharge with 30-60 kWh DC fast charger
- Level II (240 VAC). Approximately 11 hours for full recharge. (Available but not recommended. Could extend greater than 8 hour shift)

FOOTNOTES:

- ¹ Based on common use cases. Performance may vary
- ² Charge times can vary significantly based on state of charge, charger types and environmental conditions.
 ³ Assumes 7 MPG and \$5.50 per gallon diesel cost. Actual cost and savings may vary.
- ⁴ Assumes \$0.14 per kWh and 135 mile drive range with 90% kWh hours consumed. Actual cost and savings may vary

SMARTPTO

Key Features:

- Dedicated 28.8 kWh battery pack provides a full day of boom operation
- Boom operation does not reduce driving range
- Highly visible state of charge LED indicators
- No scheduled mechanical maintenance required
- Telematics data and remote support
- Integrated 6kW charger

Charging²:

- Charges from a standard wall outlet or Level II EV charger
- Level II: Approximately 5 hours for full charge

**Please Note: Integrated Level III charging to be released in 2023. Will be retrofittable.

AERIAL DEVICE

Model	Bottom of Platform	Working Height	Non-Overcenter Side Reach	Overcenter Side Reach	Platform Capacity	Material Handling Capacity	
Optima HR55	55.0 ft. (16.8 m)	60.0 ft. (18.3 m)	42.8 ft. (13.0 m)	48.2 ft (14.7 m)	700 lbs (218 kg)	2000 lbs. <i>(907 kq</i>)	
Optima TC55	55.0 ft. (16.8 m)	60.0 ft. (18.3 m)	42.8 ft. (13.0 m)	NA	700 lbs. <i>(318 kg)</i>	2000 lbs. (907 kg)	

WARRANTY

CHASSIS Vehicle Coverage Chassis Warranty	Years 2 years	Miles Unlimited	CHASSIS Steering Pump/Air Compressor • Warranty is not pro-rated	Years 1 Year	Miles Unlimited		
Drive Battery	5 years	100,000	Contact International for optional extended warranty coverage				
Drive Motor Driver Charger & Cables	5 years 5 years	100,000 100,000	SmartPTO: 1 year or 4,050 hours Optional 3-year extended warranty available		-		

Effective Date: October 2022. Product specifications and prices are subject to change without notice or obligation. The photographs and/or drawings in this document are for illustrative purposed only. Refer to the appropriate Operator's Manual for instructions on the proper use of this equipment. Failure to follow the appropriate Operator's manual when using our equipment or to otherwise act irresponsibly may result in serious injury or death. The only warranty applicable to our equipment is the standard written warranty applicable to the particular product and sale and Terex makes no other warranty, express or implied. Products and services listed may be trademarks, service marks or trade names of Terex Corporation and/or its subsidiaries in the USA and other countries. All rights are reserved. Terex® is a registered trademark of Terex Corporation in the USA and many other countries. Copyright 2022 Terex Corporation.

- High-voltage System 210 kwh Lithium Ion Phosphate (608 volt operating voltage)
- Sophisticated battery management system that heats or cools the batteries for optimum charging, performance and longevity
- Auxiliary Battery System Two 12-volt AGM batteries to provide driver with controls and indications of vehicle performance
- Sophisticated battery thermal management system that heats or cools the batteries for optimum charging, performance and longevity

Savings:

- Approximately 75% lower fueling cost per mile
 - Diesel: Approximately \$0.79 per mile³
 - Battery charging: \$0.21 per mile⁴
 - Lower Maintenance cost compared to a diesel chassis
 - No engine or transmission maintenance
 - No fuel or engine air filters
 - Fewer brake pad replacements No diesel exhaust fluid
 - Only scheduled maintenance items are coolant flush for BTMS and radiator (every 5 years), air compressor filter (every year) and chassis lubrication

