

# PROPULSE<sup>®</sup>

HYBRID ELECTRIC DRIVE TECHNOLOGY



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OSHKOSH TRUCK CORPORATION

# GET THERE FIRST

# OSHKOSH DELIVERS THE NEXT GENERATION OF TRUCK TECHNOLOGY.

ProPulse® hybrid electric drive technology is unmatched in its ability to power severe-duty trucks. It is the only operational system that claws through the most rugged terrain, keeping pace with armor as it delivers the environmental and economic benefits of a hybrid electric drive system.

ProPulse increases fuel economy up to 40 percent because the diesel engine in the system continuously runs at optimal rpm — significantly more efficient than the maximum rpm usually needed for highway speeds and full payloads. Emissions are also reduced, meeting current and proposed EPA requirements. And the on-board generator offers enough electrical output to power a residential block, airfield, hospital, command center, communications equipment and much more.

There are no batteries to maintain or replace. Less fuel is needed over the life of the truck. The full electrical system lowers torque throughout the drive train, reducing wear and tear on the truck. And the modular design requires fewer spare parts. All of which increase the value of the vehicle by reducing the life-cycle costs.

ProPulse allows for a smaller logistics footprint, increasing the mobility and deployability of fighting forces. Lower fuel requirements mean less fuel to transport, while on-board power eliminates the need for cumbersome generators to power field operations.

In addition, increased readiness is achieved through improved diagnostics that trend performance and track maintenance over the life of the vehicle, predicting maintenance needs more accurately than ever before. The diagnostics also offer real-time operating information and help keep your truck ready for action. And the easy to maintain system has fewer moving parts, no batteries and many commercially available components.

The ProPulse electric drive technology and its diagnostic systems help crews identify issues and keep vehicles at top performance. Advanced safety technology allows the user to discharge all stored energy from the truck, so maintenance crews can work in complete safety. This Safety Maintenance Mode eliminates the need to have specially-trained technicians performing routine vehicle maintenance.

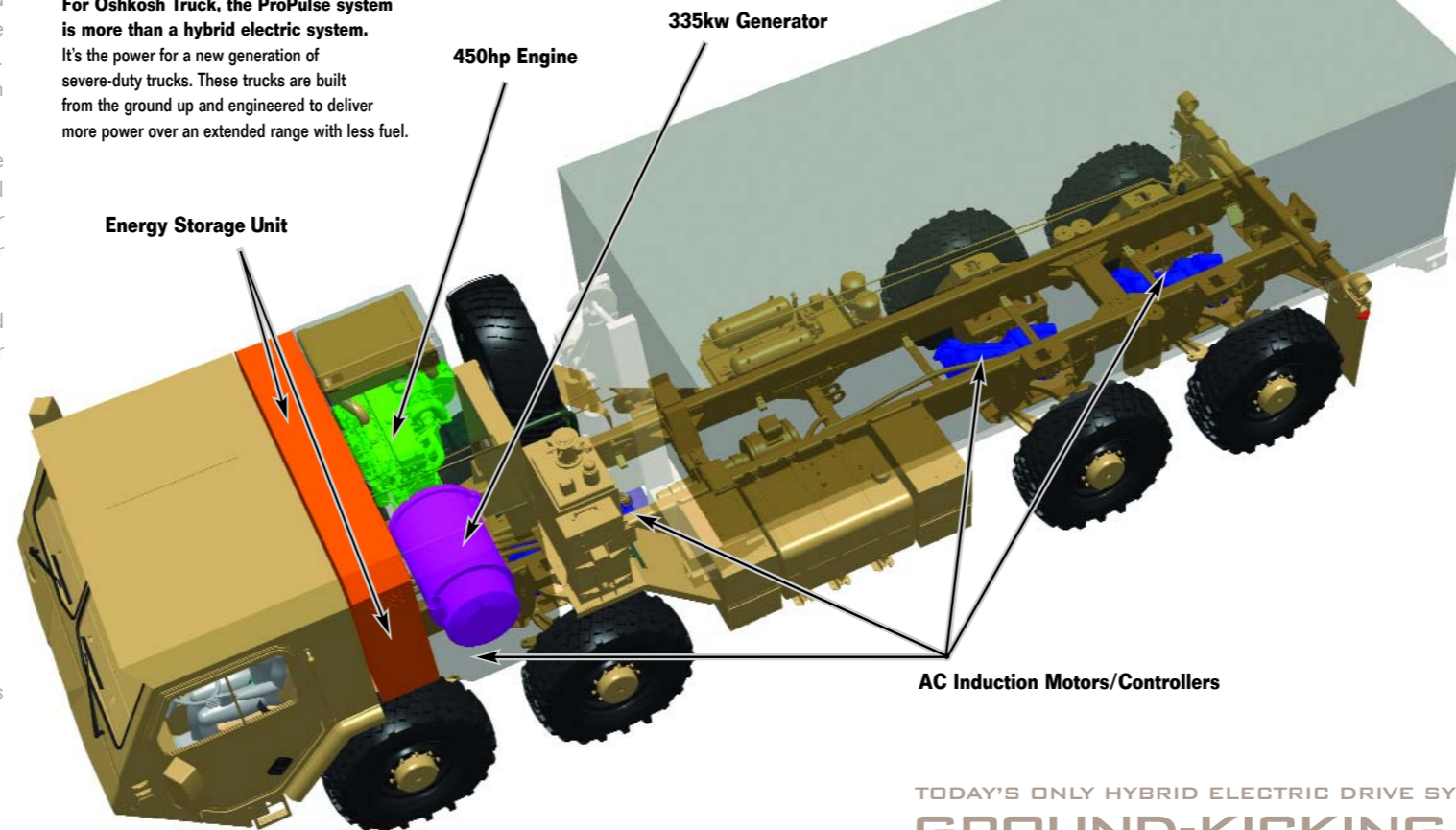
ProPulse ushers in a new generation of severe-duty trucks. It's ideal for tactical trucks, homeland security vehicles, disaster relief, and peacekeeping missions. It's engineered from the ground up to take on the challenges of military service. And it's no surprise that this technology comes from the one company who builds the toughest, most reliable, most technically advanced trucks in the world — Oshkosh Truck.



**ProPulse Hybrid Electric Drive Technology Delivers the 21st Century Truck.**

**For Oshkosh Truck, the ProPulse system is more than a hybrid electric system.**

**It's the power for a new generation of severe-duty trucks. These trucks are built from the ground up and engineered to deliver more power over an extended range with less fuel.**



The ProPulse system provides the power to traverse the most demanding terrain.



ProPulse equipped HEMTT-LHS easily powers an airfield.

The simplified drive train of ProPulse delivers more power. The diesel engine drives a 335 KW generator that delivers power to electric motors dedicated to each differential. This direct transfer of power eliminates the need for the torque converter, transmission, transfer case, and drive shafts, making the entire system more efficient with fewer moving parts.

The energy storage unit provides extra power for acceleration, deceleration and other functions, and is capable of receiving much higher regeneration energy for highly responsive braking. It delivers the power the truck needs and still maintains fuel efficiency.

The ProPulse system provides the power to traverse the most demanding terrain, and put payloads and electricity where you need it most. It is slated to power the new HEMTT A3, the next generation of air-transportable tactical trucks. And it's one more way Oshkosh is transforming severe-duty trucks for modern military forces.

TODAY'S ONLY HYBRID ELECTRIC DRIVE SYSTEM. ENGINEERED FOR THE  
**GROUND-KICKING, SEVERE-DUTY BEASTS THAT BEAR OUR NAME.**

Specifications, descriptions and illustrations in this literature are as accurate as known at the time of publication, but are subject to change without notice. Illustrations may include optional equipment and accessories and may not include all standard equipment.