

HMA Fire kick starts sales of its new T4 Extended Diesel Ultra High Pressure Vehicles with two awards from the U.S. Military

New T4 ED First Response Emergency Vehicles will provide mobile ultra-high pressure fire suppression to the Army and Navy overseas

Madison, WI (October 15, 2010): HMA Fire's launch of its new T4 Extended Diesel First Responder Vehicle kicked off this fall with two awards from the U.S. Military. In September, the Army's Rock Island Contracting Center purchased 14 vehicles for deployment into FOB Fenty, Afghanistan, followed in October by an award from the Navy for 4 units for delivery to Bahrain.

The T4 ED is HMA's first extended diesel version of its popular first responder system. Capable of running on both diesel and JP-8 fuels, the T4 ED combines the 2011 Polaris Military Diesel Chassis with HMA's Hydrus™ Ultra High Pressure (UHP) Suppression System.

"This vehicle has a number of benefits for increased safety for military firefighters," said Rory Groomwald, Chief Engineer for HMA Fire. "It includes our exclusive air-ride suspension, which we recommend for anyone operating in rough terrain so they can maintain higher load capacities and stability. It also includes our own vacuum-based adjustable foam proportioning system and self drafting option, but most importantly, this vehicle has no hydraulic systems. On traditional vehicles, when the hydraulic system goes down, you lose both mobility and fire suppression capability. That can't happen with HMA's T4."

HMA Fire's close relationship with the military includes joint projects to develop high pressure, transportable suppression systems. Over the last several years, HMA Fire and the USAF – AFRL Fire Research Laboratory at Tyndall AFB, FL, have been at the forefront of research and development on UHP. This work has resulted in the T4 ED's Hydrus™ P100-F UHP Suppression System, which features HMA's 1540-ADP Triplex Piston Plunger Pump with its operating ranges of 18-22 gpm at 1100-1400 psi. This system requires 1/2 to 1/5 less water and foam supply than a traditional fire fighting vehicle, enabling its smaller and more maneuverable platform.

Industry Leading Performance

In tests at Tyndall Air Force Base, HMA demonstrated this industry-leading UHP system by extinguishing 380 gallons of JP-8 fuel over 3,500 square feet in just 32 seconds, using only 13 gallons of suppressant. This performance is attributed to its 90% effective water use. With low-pressure fire pumps, as little as 10% of the water actually goes towards extinguishing the flames. The other 90% falls away, completely wasted. With HMA's UHP, any water not applied to the flame is converted to steam that fills the atmosphere and cools the air. Testing has shown that by using ultra high pressure fire suppression and proper attack patterns, upper layer room temperatures can be decreased by more than 1,000°F in just seconds.

The T4 ED also comes equipped with a Kohler Model KD477-2 two cylinder, 954cc, 21.7 HP at 3600 rpm EPA Tier 4 diesel engine and a 100/10 gallon baffled poly water/foam integrated tank. The water and foam tanks include HMA's proprietary auto shutoff system to prevent pump cavitation and the

possibility of running dry. Other unique features include HMA's patent pending manifold-dampening pressure accumulator and UHP pistol grip style nozzles from partners Elkhorn or Akron & WUI.

These features mean that the T4 ED provided the military with a total solution for mobile firefighting attack.

About HMA Fire

HMA Fire is a division of Orbital Technologies Corporation, based in Madison, Wisconsin. We are a Fire Apparatus and Equipment Manufacturer that is firmly committed to solving the challenges that face firefighters throughout the world. We have set high standards and goals in finding creative and more efficient ways to improve all sectors of fire safety through the research, development and implementation of state of the art technologies and manufacturing applications.

We design, develop and manufacture ultra-high pressure fire apparatus and equipment including:

- Close quarters fire suppression vehicles
- Wildland and off-road fire vehicles
- Specialized ARFF application vehicles
- UHP suppression fire fighting systems (integrated and stand alone units)
- Hangar and facility fire protection units
- Rapid Initial Response (RIR) fire suppression vehicles
- Standard and specialty fire apparatus
- Retrofits and UHP upgrades

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