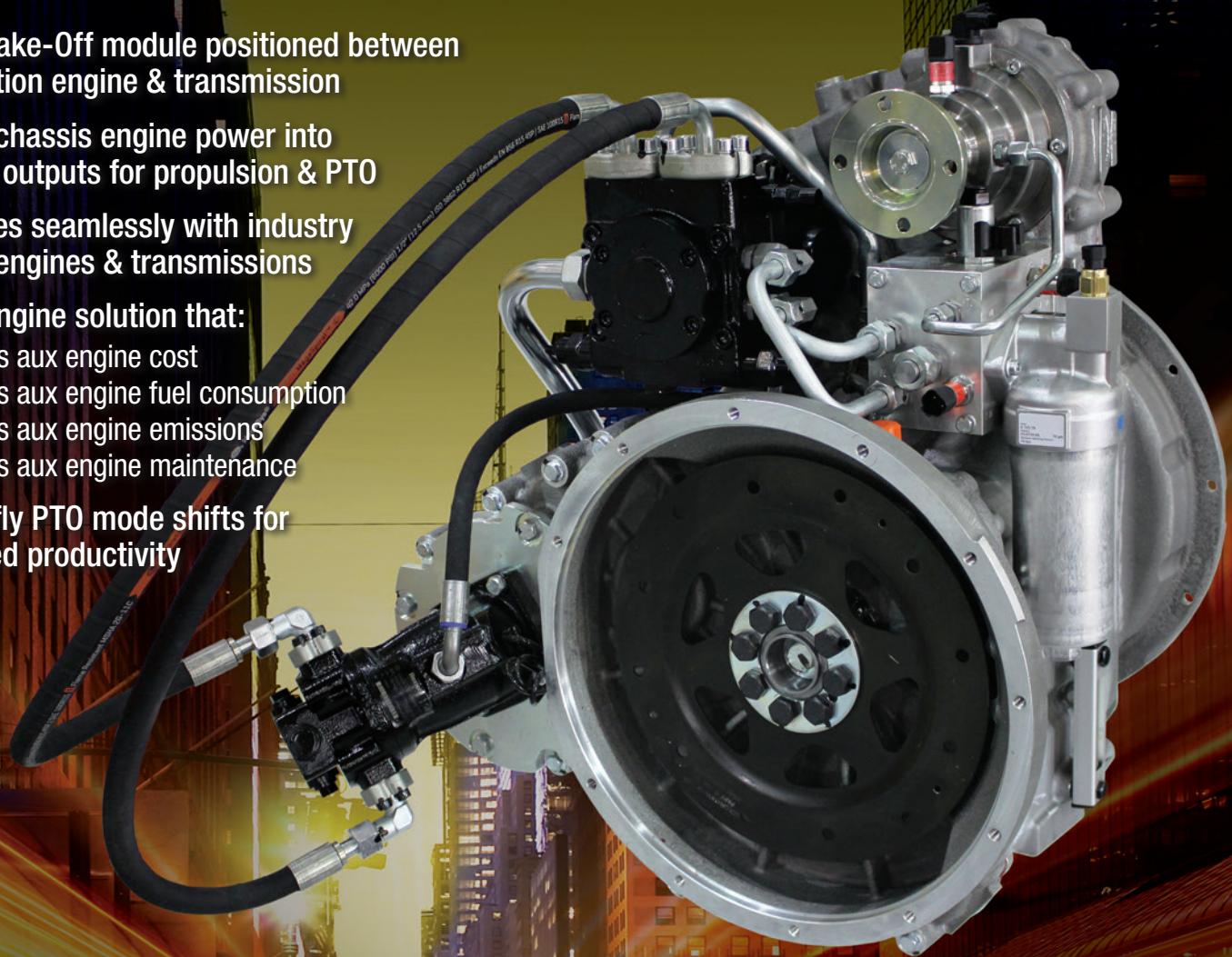




Variable Power Divider

Eliminates the need for auxiliary engines in dual-engine applications

- Power-Take-Off module positioned between combustion engine & transmission
- Divides chassis engine power into variable outputs for propulsion & PTO
- Integrates seamlessly with industry leading engines & transmissions
- Single engine solution that:
 - Eliminates aux engine cost
 - Eliminates aux engine fuel consumption
 - Eliminates aux engine emissions
 - Eliminates aux engine maintenance
- On-the-fly PTO mode shifts for increased productivity



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Specifications:

Max Input Power:	260 hp
Max Input Speed:	2600 rpm
Max Input Torque:	660 ft-lbs
Engine Mount:	SAE No.3
Max PTO Output Speed:	3600 rpm
PTO Output Flange:	1410
Weight:	437 lbs

*Marmon-Herrington Application Approval Required

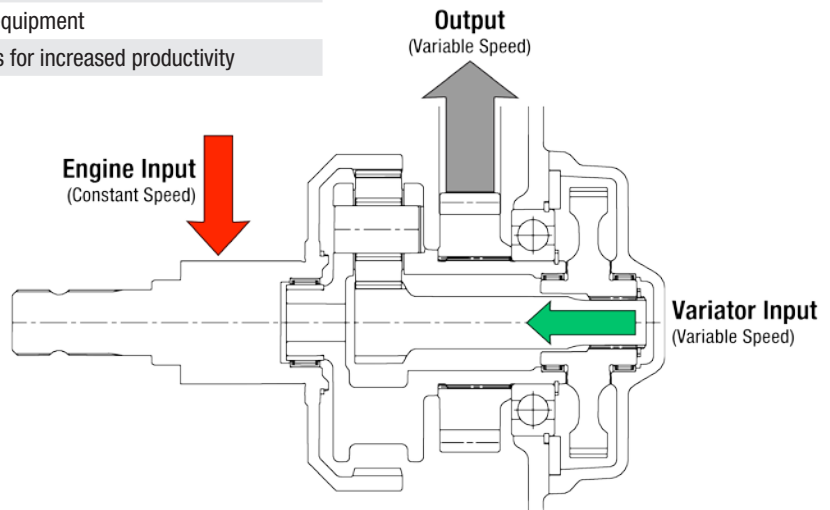


Benefits:

Seamless Integration:	Pairs with chassis main transmission for uninhibited on-road operation and improved mobility during PTO operation
Economical Solution:	Eliminates auxiliary engine cost
Environmental Solution:	Eliminates auxiliary engine fuel consumption and emissions
Small Footprint:	Increases space for body equipment
Responsive:	On-the-fly PTO mode shifts for increased productivity

Applications:

- Aircraft Rescue and Fire Fighting (ARFF)
- Street Sweeper
- Gravel Spreader
- Fire Fighting Pump and Roll
- Water Truck
- Paint Striper
- And More



Functional Concept Note: The VPD splits a vehicle's main engine power into two independent outputs that simultaneously power the wheels and auxiliary equipment. This is accomplished through a hydro-mechanical system incorporating a planetary gear train coupled with a hydrostatic pump and motor. The first output powers the VPD's PTO and is used for auxiliary equipment. The second output powers the vehicle's transmission through the planetary and hydrostat. By varying the speed of the hydro-motor, the VPD allows the vehicle to be driven normally even when auxiliary equipment is operating at a fixed engine RPM. Power to auxiliary equipment can be custom programmed to maximize efficiency for specific applications.

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