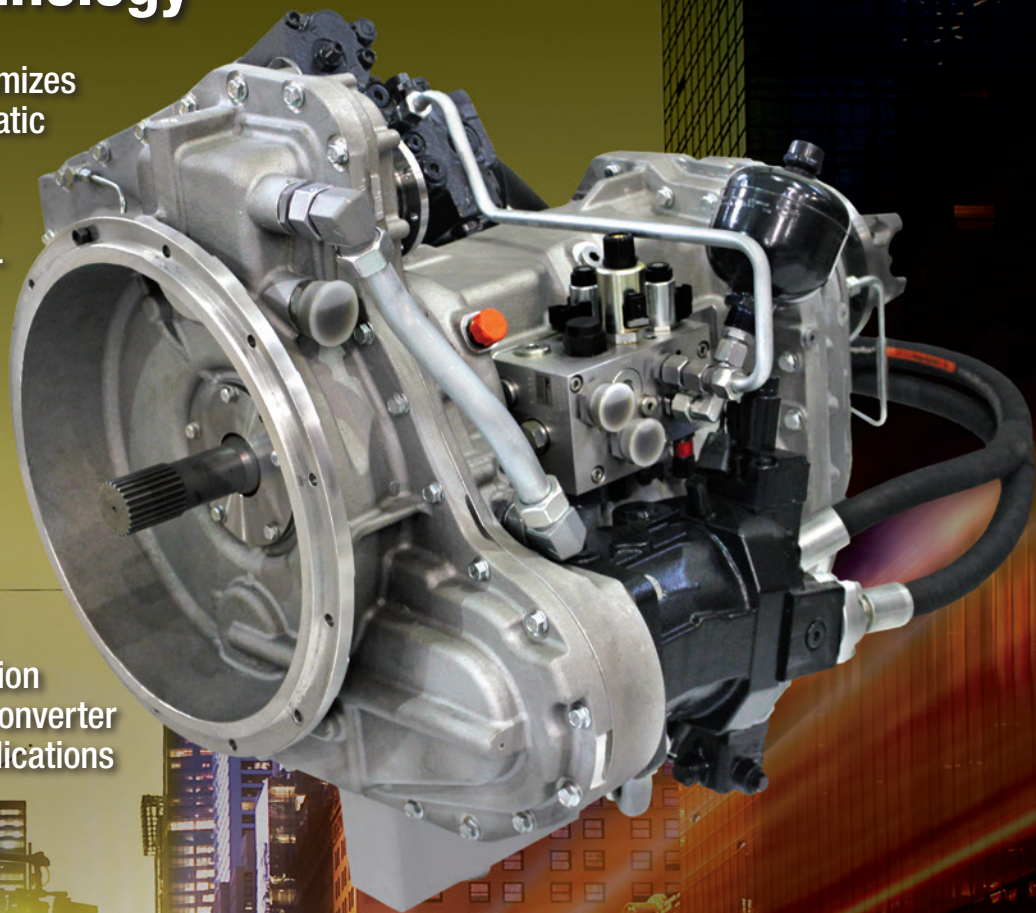


# HydroMechiVT™

infinitely Variable Transmission

## A breakthrough in infinitely variable transmission technology

- Hydro-mechanical solution optimizes the advantages of both hydrostatic and mechanical systems
- Patented high-torque planetary design combined with a closed-loop hydrostatic variator
- Always in the "perfect gear" for peak operating efficiency
- Vehicle speed decoupled from engine speed
- Reduces operating cost
- Reduces environmental impact
- Reduces wasted fuel consumption over 15% compared to torque converter transmissions in start-stop applications



Marmon-Herrington



## Specifications:

<b>Max Input Power:</b>	410 hp
<b>Max Input Speed:</b>	2500 rpm
<b>Max Input Torque:</b>	1450 ft-lbs
<b>Engine Mount:</b>	SAE No.1/No.2
<b>Max Output Speed:</b>	5150 rpm
<b>Optional Auxiliary Reduction (High/Low):</b>	1.226/2.15
<b>Max Output Torque:</b> (with auxiliary reduction)	6556 ft-lbs (90cc hydro) 7310 ft-lbs (115cc hydro)
<b>Weight:</b> (with auxiliary reduction)	1050 lbs

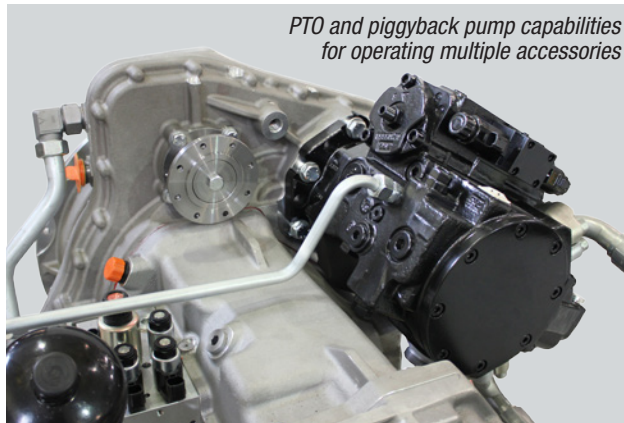
\*Marmon-Herrington Application Approval Required

## Benefits:

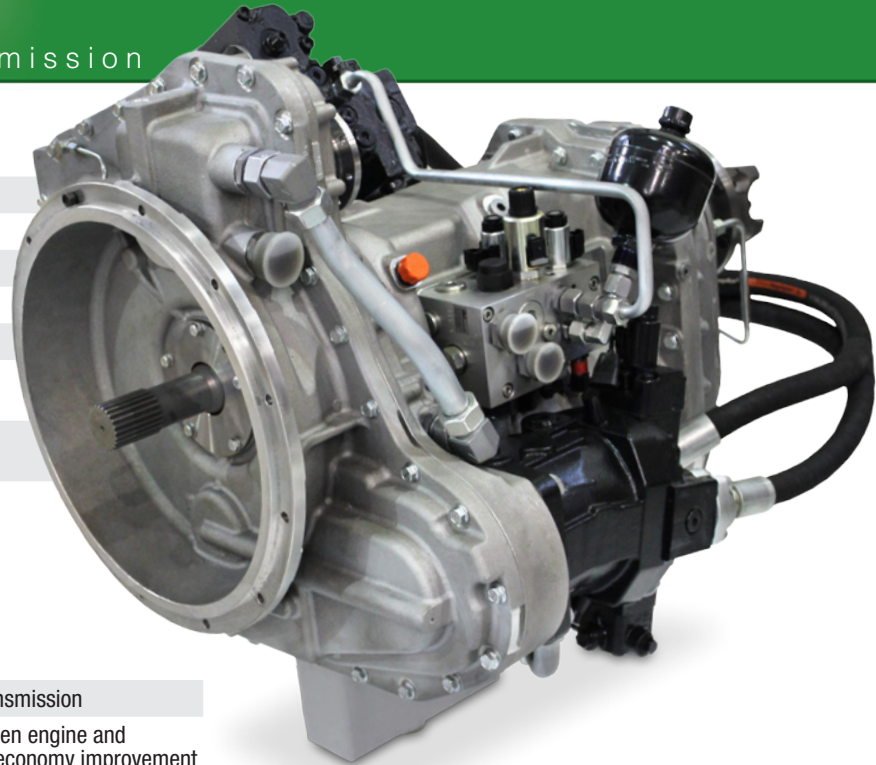
<b>Driver-Friendly:</b>	The ease of use of an automatic transmission
<b>Fuel Economy:</b>	Permanent torque connection between engine and drive wheels offers anticipated fuel economy improvement
<b>High Torque Capacity:</b>	Non-friction variator designed for high torque applications
<b>Hill-Hold Capability:</b>	Prevents runaway vehicles and rollaway on hills
<b>Driver Comfort:</b>	Smoother operation through the elimination of shift points
<b>Enhanced Creep Capability:</b>	Low speed hydrostatic control
<b>Deceleration:</b>	Engine deceleration supports increased brake life and reduced brake maintenance
<b>Custom Functionality:</b>	Programmable functionality for any application

## Applications:

- Refuse
- Bus & Coach
- Terminal Tractor
- Agriculture/Forestry
- Construction
- Fire & Rescue
- Municipal
- Military



*PTO and piggyback pump capabilities for operating multiple accessories*



**Functional Concept Note:** The HydroMech iVT features a hydrostatic drive at low speeds for improved vehicle control; synchronous shifting from variator drive to 1st powersplit gear; and powershift clutching from 1st powersplit gear to 2nd with variator gap compensation.

Your Marmon-Herrington representative can demonstrate to you how this innovative transmission solution can be tailored to improve the durability and performance of your equipment in your particular application.

*Estimated fuel consumption reduction based on comparative dynamometer testing.*

