

Electronic Transmission Oil Pump



Description

Magna Powertrain's **Auxiliary Electronic Oil Pump for Idle Stop & Go (Start/Stop) & Hybrid** transmissions maintains lubrication and pressure in the transmission during engine shut-off and operates to supplement the mechanical oil pump, resulting in significant reductions in fuel and CO₂.

Features/Specifications

- Provides **oil flow, independent of transmission RPM**, to maintain hydraulic pressure for lubrication and actuation.
- **“Enabler” for stop start systems** to provide significant CO₂ benefits, including **“coasting” and “sailing”** functions.
- **Operable as a “boost” pump** to allow downsizing of the mechanical pump, improvements in shift quality and launch response - system **CO₂ reductions up to 2.7g** during NEDC.
- **Robust and efficient BLDC motor technology designed and manufactured at Magna Powertrain.** Cost effective motor platforms covering 50W – 600W power range.
- **Available with integrated motor controller (inverter), designed and manufactured at Magna Powertrain.**
- **Optionally combined as a module with a mechanical pump:** functional integration to reduce costs and complexity; simplification of interfaces & assembly in the transmission.
- **High voltage variant completely eliminates the mechanical transmission oil pump**, particularly in HEV's.



Innovation Pillars



CLEANER



LIGHTER



SMARTER



AFFORDABLE