Electric Power Take-Off (ePTO)

Parker Chelsea

ENGINEERING YOUR SUCCESS.

SMART Electrification

OPTIMAL EFFICIENCY. **MAXIMUM BATTERY LIFE.**

Designed to provide right-sized power & performance

Compact design to **REDUCE** space & weight

POWER RANGE UP TO **175kW**

Internal lubrication and cooling for all major subcomponents

INTEGRATED CONTROLS WITH

Analog signals

Digital signals

CAN communication

PRODUCT INTRODUCTION

Parker Chelsea introduces an integrated Electric Power Take-Off (ePTO) designed to optimize efficiency and maximize run time. With increased focus on emissions reductions comes an increased interest in electrified work functions that rely on batteries and motors for power instead of internal combustion engines. Parker Chelsea ePTOs can be installed on either BEV-electric or hybrid-electric vehicles and are critical to enabling hydraulic and mechanical work functions for tomorrow's cleaner and smarter machines.

e910 SERIES

Chelsea ePTOs were designed to meet a wide range of needs, and the e910 Series is the smaller of the two models. Don't be fooled – the compact design does not lack power.

The e910 Series can offer several gear ratios to maximize output torque, which allows for a smaller motor frame size without compromising performance. The e910 Series Chelsea ePTO produces 10kW nominal power and is designed for light-medium duty applications.

Parker Hannifin combined expertise from several divisions to create the most efficient integrated ePTO to enter the market. The e910 Series features an exceptionally efficient Denison Vane Pump which is up to 90% efficient and can be configured for multiple flow rates and pressures.

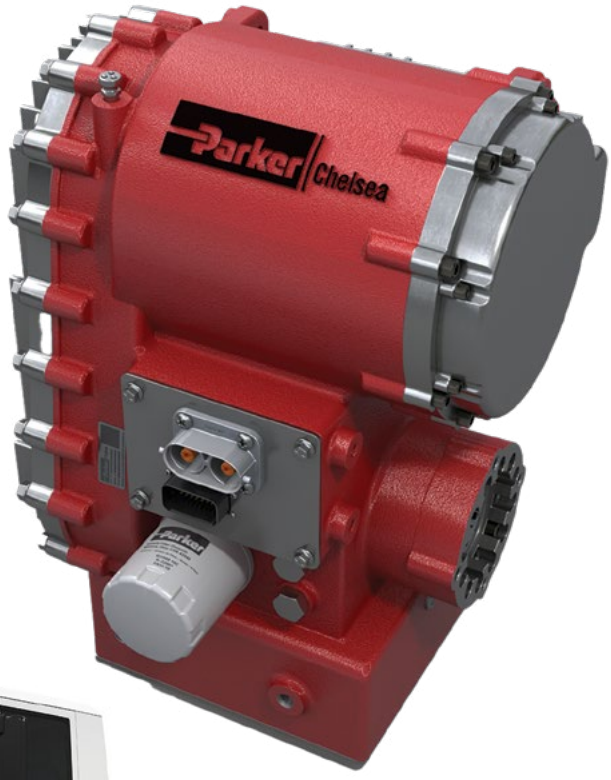
Each of Chelsea's electrification products utilize the Global Vehicle Motor (GVM) from Parker's Hydraulic Pump and Power Systems Division. The GVM is an electric motor designed for use in electric and hybrid vehicles. The high power-density and speed capabilities of the GVM motor provide the speed and torque required to achieve break-through performance in a variety of work truck applications.

Internal lubrication throughout the e910 Series prevents all major subcomponents from overheating, which is yet another way to produce higher power from a smaller package. The oil bathed bearings and pressure lubed gears meet the demands of speeds of electric motors and eliminates the need for external cooling.

SMART
Electrification

e970 SERIES

The e970 Series is the larger model of the Chelsea ePTOs. Designed to optimize efficiency and maximize run time, the highly efficient e970 Series is the next generation of power take offs for medium-heavy duty applications.



The e970 Series produces 70kW nominal power and features all of the same common output and pump options customers expect with Chelsea products, including DIN, 1410 driveline, and SAE B, BB, C pump mounts.

Several of the highlights from the e910 Series will also be found in the e970 Series including the GVM and internal lubrication system.

The e970 Series utilizes the Global Vehicle Motor (GVM) from Parker's Hydraulic Pump and Power Systems Division, which allows for configurable speeds and torques to optimize efficiency.

As with the e910 Series, the e970's major subcomponents are cooled by the integrated internal coolant system. It can also accommodate external water cooling for higher power applications.

Parker Chelsea

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