



ENGINEERING YOUR SUCCESS.

Refuse Pumps



Major Supplier to the Refuse market for over 75 Years

Parker Hannifin acquired Commercial, Tyrone, Denison Vane, and Chelsea during the early 2000's.

These acquisitions made Parker the majority producer of pumps to the waste industry with a share of over 90% of all pumps supplied in the United States and Canada.

Over the years Parker's Commercial gear pumps have been sold and marketed by several suppliers to the refuse market. One of these customers was Muncie Power Products. Today our relationship with Muncie has ended, and their pumps are no longer manufactured by Parker Commercial.

Parker continues to produce and sell Commercial gear pumps through our OEM and distribution channels.

In addition to gear and vane pump products, the Parker group of companies has been a major supplier of PTO's, hydraulic cylinders, directional control valves, joy sticks, hydraulic hoses, and filtration products to the Waste Industry.

Parker has now developed an all new 890 series PTO especially for the refuse industry to eliminate the need for mounting large pumps being driven off the front of the engine. This product was produced to handle automated side loader and front loader

units that have Allison automatic transmissions.

Through a series of pneumatic controls Parker has developed a system that utilizes the Chelsea 890 PTO. This innovative product is designed to make a gear or vane pump work like a variable volume pump.

This innovative solution provides the refuse industry the opportunity to reduce fuel costs, and the number of components to install and maintain.

We have the power to drive your equipment requirements for automatic and manual transmissions. [Hot Shift, manual, or constant drive PTO's]



Pumps...We make them all



PARKER makes them all, single and tandem, gear, roller bearing and bushing, vane and the P1 variable volume for future waste technology.

Dry valves, Live Paks, HOC systems, Oasis electronic controls, PTO driven, engine driven you name it, we have what you need to keep your fleet running like new.

Dry Valve Technology
The dry valve was one of the first systems to use a pneumatically controlled valve to limit down stream flows during the off mode.

Live Pak Technology
The Live Pak was designed to increase the life of the pump over the dry

valve technology. It also completely eliminated down stream flow during the off mode.

HOC Technology
HOC technology is the first system to automatically sense power requirements during operation and automatically control the flow through load sense lines without any driver assistance.

Oasis Vane Technology
The Oasis Vane was the first system to electronically monitor flow. The system provides quiet and fuel efficient operation while electronically monitoring flow and hydraulic system requirements.



Parker's HOC system shown above with tandem bushing pump to power automated side loaders.



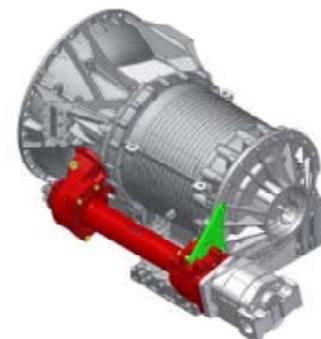
The 890 Series PTO

The all new Patent Pending 890 was designed to allow large frame Gear, Vane and Variable Volume Piston pumps to be mounted directly to the PTO.

The 890 is the most robust PTO ever designed by Chelsea. The PTO constantly supplies a fresh oil bath for the splines between the pump and PTO to virtually eliminate spline fretting. This system we have termed *wet spline* versus *grease*.

The pictures below were taken after 400 hours of use with and without wet spline technology.

The choice is yours!



To Learn more about the 890 Series PTO, our full line of PTO's with Wet Spline Technology, and our refuse pumps: Visit our web page at:

www.phtruck.com

Wet Spline Technology

With

Without

