



## The Darley Difference

Darley has been in business since 1908 and has the widest variety of pumps and CAFS on the market. Darley pumps are the choice of the US Military and Fire Fighters around the world. We stock parts on all current pumps and ship most parts within 24 hours. Customer service is second to none with a sales and engineering team that is available 24 hours a day, 7 days a week. All Darley truck mount midship and PTO pumps carry a 6 year warranty. It is the longest warranty on the market. Unlike other fire pump warranties, the Darley warranty also covers labor charges for 3 years. Portable and engine driven pumps will carry a 3 year parts and labor warranty similar to the engine warranty.

### DARLEY PUMPS - Features and Benefits

#### **INJECTION PACKING**

Time saving and reliable. This exclusive feature allows the pump to be repacked in minutes rather than hours. Packing can be renewed by removing the plunger and inserting new packing pellets. Never have a pump down again due to mechanical seal failure.

#### **MECHANICAL SEAL *(Optional)***

Darley uses Silicon Carbide Mechanical seals with welded springs. The stationary face of our mechanical seals is made from Silicon Carbide, an extremely hard and heat dissipative material, which resists wear and dry running damage much better than conventional Ni-resist and Tungsten Carbide materials.

#### **SELF LOCKING DISCHARGE VALVES**

Feature a 316 stainless steel ball, which is hard wearing and corrosion resistant. If scratched through misuse it can be buffed to restore its surface finish.

#### **PUMP TRANSMISSION**

##### **STRONGEST ON THE MARKET**

The Darley Midship Pump Transmission is the strongest on the market. A maximum torque rating of 19, 230 lb. ft. far surpasses any other pump on the market and ensures a proper fit with virtually any engine and transmission combination.

##### **HELICAL CUT GEARS**

Precision cut heat treated alloy steel reduces noise, minimizes wear and provides positive power transmission.

##### **GROUND, CARBURIZED GEARS**

Our gears are carburized, case hardened and precision ground for smooth, quiet operation.

#### **DARLEY'S UNMATCHED WARRANTY**

Is the longest Standard Warranty available on the market. All Darley truck mount midship and PTO pumps carry a 6 year warranty. Unlike other fire pump warranties, the Darley warranty also covers labor charges for 3 years. Portable and engine driven pumps will carry a 3 year parts and labor warranty similar to the engine warranty.

#### **BULLET NOSED SLIDING CLUTCH GEAR**

This means less chance of a butt tooth condition when engaging.

#### **INSPECTION PLATE**

The Darley Transmission features a removable plate to allow for quick inspection of gears, shafts and bearings inside the transmission.

#### **AUTO COOL, TRANSMISSION COOLER**

Our cooler directs water over the exterior of the gear case, so there is no chance that an accidental failure to drain the pump will result in the gearbox filling with water and failing.

#### **DIPSTICK**

Our large Midship line features a dipstick on the gear box for easy oil level checking. Our Magna Trans now utilizes a full 50 oz. oil reservoir for assured cooling and lubrication.

#### **POWDER COATED GEAR CASE INTERIORS**

All cast iron gear cases are powder coated on the interior so that moisture cannot rust the interior and contaminate the oil, gears and bearings.

#### **REPAIRABLE SHIFT CYLINDERS**

All our shift cylinders are repairable. If they fail to operate properly, it is usually not necessary to replace the entire assembly - only the seals. No retaining rings are used in cylinder assembly.



### **7/8" DIAMETER SHIFT BAR**

Our shift bar is significantly heavier and stiffer than others on the market and is not subject to becoming bent due to accidental shifting errors. Shift fork is rigidly clamped and positioned on shift bar using a lockbolt and safety wire assembly.

### **CAFS READY TRANSMISSION**

Darley Midship Transmissions are designed to accommodate a compressor if you decide to add CAFS at a later date.

### **END MILLED KEYSEATS**

An end milled keyseat will retain the key in its position, making assembly and disassembly easier. Other manufacturers use fly-cut keyways which allow the key to move during assembly procedures and can allow for improper repairs.

### **1:1 or 1:2 TACH OUTPUT**

Our tachometer output runs 1:1 (*Midships*) or 1:2 (*PTO Pumps*), allowing direct connection of commercial tachometers.

### **IMPELLERS**

Most Darley Midship Pumps feature vacuum cast impellers which are designed for maximum lift and highest capacity. All impellers are broached rather than keyed for maximum strength and durability.

### **SHAFTS**

Impeller shafts incorporate SAE 10 tooth spline rather than keyed press fits for exceptional durability. A splined fit is stronger than a single key, so it never shears. Keyed fits require a shrink fit (heat required for assembly or disassembly) while a splined fit does not. This allows easier assembly and disassembly, for easier repairs requiring fewer replaced parts.

### **DARLEY COMPACT PUMP DESIGN**

Compact design means lighter weight and smaller pump compartments making more valuable space available on a truck. Design also allows for easier and faster maintenance in the pump compartment.

### **DISCHARGE CHECK VALVES (*Optional*)**

Automatically permit Darley pumps to be primed with discharge gates open and caps removed when drafting to get water on the fire rapidly. Pump holds prime during intermittent drafting operations.

### **SHIELDED BEARING**

#### **ADJACENT TO ALL OIL SEALS**

All bearings mounted adjacent to an oil seal have a shield on the side facing the oil seal. Should the oil seal fail, this provides an added barrier to oil leakage or contaminant entry.

#### **ANTI-CORROSION OIL SEALS**

All oil seals adjacent to packing seal are encased in rubber or suitably coated to avoid the effects of corrosion from this area of high moisture.

#### **O-RINGS IN PLACE OF GASKETS**

Wherever possible, we utilize o-ring seals instead of gaskets, providing a more leak-free, age-resistant seal. This eases disassembly and reassembly.

#### **CORED HEAT EXCHANGER**

Built in pump heat exchanger eliminates cost, improves efficiency by reducing the parasitic load on the pump. No water is diverted to an expensive, external shell and tube heat exchanger.

#### **DARLEY'S STREAMLINED SUCTION TEE**

*(Optional)* Ensures smooth flows, minimizes friction loss on suction side.

#### **PULLER HOLES**

Bearing caps, impellers and other components with a locational or press fit are equipped with puller holes to facilitate disassembly. No more prying parts apart.

#### **FILTERED PUMP DISCHARGE OUTLET**

Most pumps feature a filtered outlet for connecting auxiliary devices, such as heat exchangers, that can be contaminated and plugged by pump water debris.

#### **HARD ANODIZED PORTABLES**

Our portable pump waterways are made from heat treated, hard anodized aluminum, which is significantly more corrosion resistant than plain sulfuric anodized aluminum used by other manufacturers.

#### **BUTTERFLY PRIMERS, THREADED OUTLET**

Our butterfly primer can be controlled with a slide wire, making it ideal for slide in units where the controls will be on a separate panel. The exhaust outlet is pipe thread, so the body builder can redirect the exhaust above or below the truck.

**1-800-4-DARLEY**