

# PTO Pumps

## HM 250, 350, 500 PTO Pumps

The compact design of the HM, along with its capacity and durability makes it an ideal pump for a mini-pumper, wildland vehicle or tanker and will take up only a minimum amount of the payload space on your chassis. The space and weight saved enables you to carry a larger booster tank with better weight distribution. While intended as a booster pump, the HM also serves equally well when pumping from a hydrant or drafting. You can depend on it for discharging effective pressure streams through 1½" and 2½" hose. If you are considering replacing an old, worn-out pump on an apparatus, the HM is ideal for retrofitting; in fact we recommend the HM pump wherever there might be a tight and difficult installation. The HM Assembly #3 pump comes as a complete assembly (with or without relief valve) for immediate midship installation. The three basic models let you add only the performance features you need. All HM configurations offer the convenience of pump-and-roll operation.

### Standard Equipment:

- ▶ Vertically split, cast-iron bronze fitted pump casing
- ▶ Impellers opposed design to eliminate end thrust
- ▶ Broached impeller (not keyed) for longer life
- ▶ Oversized, deep groove radial-type bearings for longer life
- ▶ 10-tooth splined shaft for durability

### Assembly #1:

Single stage, centrifugal pump, gearbox assembly, 2½" NPT discharge, 3" NPT suction (HM250/350) 4" NPT suction (HM500)

### Dimensions:

- ▶ 15"Lx11"Wx18"H, 127 lbs. (58 kg) HM250/HM350
- ▶ 16"Lx11"Wx18"H, 140 lbs. (64 kg) HM500

### Assembly #2:

Single stage, centrifugal pump, gearbox assembly, suction elbow, discharge head with check valve, 2 - 2½" NPT discharge, 3 - 3" suction (HM250 /350), 3 - 4" Victaulic suction (HM500)

### Dimensions:

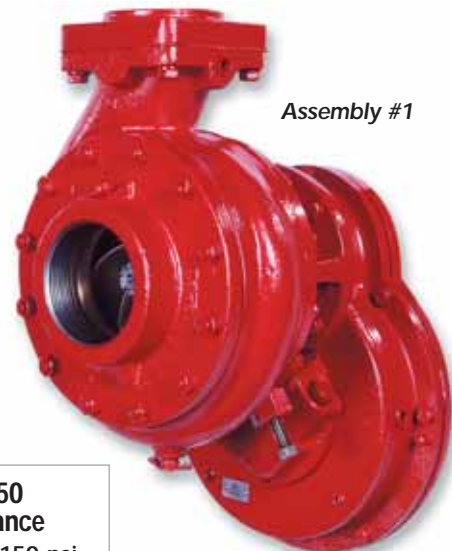
- ▶ 25"Lx14"Wx31"H, 150 lbs. (68 kg) HM250/HM350
- ▶ 27"Lx16"Wx34"H, 200 lbs. (91 kg) HM500

### Assembly #3:

Single stage, centrifugal pump, gearbox assembly, suction elbow, discharge head with check valve, complete manifolds, discharge valves, adapters and caps, 2 - 2½" NH 1/4 turn ball valves, 2 - 3" NH suction adapters and caps (HM250/350), 2 - 4" NH suction adapters and caps (HM500)

### Dimensions:

- ▶ 25"LxBody Widthx31"H, 325 lbs. (148 kg) HM250/HM350
- ▶ 27"LxBody Widthx34"H, 425 lbs. (193 kg) HM500



Assembly #1

**HM 250 Performance**  
 250 gpm @ 150 psi  
 175 gpm @ 200 psi  
 125 gpm @ 250 psi

**HM 350 Performance**  
 350 gpm @ 150 psi  
 245 gpm @ 200 psi  
 175 gpm @ 250 psi

**HM 500 Performance**  
 500 gpm @ 150 psi  
 350 gpm @ 200 psi  
 250 gpm @ 250 psi



Assembly #2



Assembly #3

## 1-1/2 & 2-1/2 AG PTO Pumps

**Pump Casing:** Vertically split type. Aluminum alloy, bronze fitted is standard; all-bronze optional.

**Pump Shaft:** Precision-ground stainless steel with long-wearing ceramic hard-coating under packing glands. Shaft is splined for broached impeller hubs for greater resistance to wear, torsional vibration and torque imposed by engine.

**Impeller:** High-strength bronze alloy accurately balanced and splined to pump shaft for precision fit and durability. Seal ring design eliminates end thrust.

**Bearings:** Deep-groove radial-type ball bearings, oversized for long life. Bearings are protected at openings from road dirt and water splash with oil seals.

**Shaft Seal:** Easy maintenance of the exclusive Darley Injection Packing System which allows pump to be repacked in minutes. Optional mechanical seal is also available.

**Call for complete specifications, suction, discharge, dimensions and weights.**

Pump	Inlet	Outlet
1-1/2 AG	2" NPTF	2" NPTF
2-1/2 AG	2½" NPTF	2½" NPTF

**1-1/2 AG Performance**  
 180 gpm @ 150 psi  
 100 gpm @ 200 psi  
 50 gpm @ 250 psi

**2-1/2 AG Performance**  
 300 gpm @ 150 psi  
 200 gpm @ 200 psi  
 100 gpm @ 250 psi



1-1/2AG

Now available in either rotation