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Specs For Ellicott Standard 16" Diesel Driven Dredge Booster Pump





General Description

The main components of the booster pump unit are:

- Ellicott 16-inch dredge pump
- Ellicott close-coupled reduction gear box
- Caterpillar C-27 diesel engine
- 16-inch (406 mm) I.D. suction cleanout
- Radiator cooled engine
- Service water pump and drive
- Exhaust pipe with raincap
- Skid base

Booster Pump and Accessories

The pump is of the centrifugal, single suction, volute type, directly driven by diesel

power through an Ellicott designed close-coupled, totally enclosed, oil lubricated, speed reduction gear. The direct mechanical connection, from crankshaft to impeller, features high torsional strength through all pump operating speeds. A manually operated, multi-plate clutch is provided between the engine and reduction gear.

The pump case and impeller are made of high chrome-carbide alloy or NI-Hard 4 cast iron with a minimum Brinell of 500, but normally in excess of 600. The side heads have renewable, abrasion resistant cast liners of chrome-carbide or NI-Hard 4 with the same Brinell. The impeller is of the latest Ellicott design with three blades and an 8.4 - inch (213 mm) theoretical particle clearance. Patented* recessed expeller vanes are an Ellicott feature on the impeller shrouds for low wear and high efficiency. The suction side head and the entrance to the impeller are protected from wear by means of a renewable throat piece of chrome-carbide or NI-Hard 4. A cast steel cleanout is included just ahead of the dredge pump to allow for removal of oversized material obstructing the pump.

A flexible coupling connects the diesel engine to the input shaft of the speed reduction gear. The radial and thrust loads on the pump shaft are carried by antifriction bearings completely enclosed in the reduction gear assembly.

Prime Mover

The Ellicott 16-inch booster pump is equipped with one diesel engine as follows:

- Type: CAT C-27
- Available HP: 800 Continuous @ 1800 RPM
- Service Type: Dredge Pump
- Starter: Electric
- Cooling: Radiator Cooled

Skid Base

The entire booster pump module is mounted on a heavy duty welded steel base. This base provides sufficient strength to lift and/or move the booster pump module as a single unit.

Dredge Booster Pump Details

- **Model:** 16-inch Booster
- **Impeller Diameter:** 38" (965 mm)
- **RPM Max:** 1800
- **HP Max - continuous kw:** 800 (597)
- **Suction Size:** 16" (406 mm)
- **Discharge Size:** 16" (406 mm)
- **Rotation:** Clockwise

Engine Details

- **Make:** Caterpillar
- **Model:** C-27
- **HP Max (kw):** 800 (597)
- **RPM max:** 1800

Pump and Engine Unit (without cleanout)

- **Weight approximate pounds (kg):** 40000 (18,144)
- **Overall Width:** 7 ft. (2.13 m)
- **Overall Length:** 21 ft. (6.4 m)
- **Overall Height:** 9 ft. (2.74 m)