

## 5060 Horizontal Split-case Pumps

**D**eming Double-Suction, Horizontal Split-Case Centrifugal pumps combine the latest in hydraulic design with almost a century of application experience to meet today's industrial and municipal requirements.

Deming Split-Case pumps offer long life, higher efficiencies, less downtime and lower maintenance costs. Maximum interchangeability of standardized parts simplifies the design. Heavy fabricated steel bases or cast iron, including drip lip type, are available to mount the pump and driver. Flexible shaft coupling connects drive to pump.

A standard horizontal design pump can also be vertically mounted with grease lubricated bearings and mechanical shaft seal. Vertical units require minimum floor space, offer an in-line piping arrangement and provide greater motor protection in areas prone to flooding. The flexibility of the Deming 5060 Series supports a wide variety of applications.

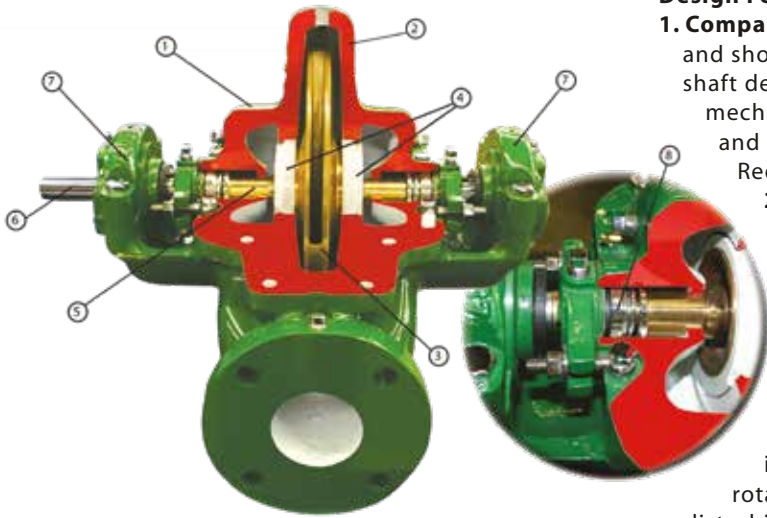


**Capacities to 7000 GPM  
Heads to 500 Feet  
Single stage, double suction  
Three year shaft warranty**

### APPLICATIONS:

- General Water Supply
- Booster Service
- Municipal Waterworks
- Air Wash Applications
- Condenser Cooling
- Water Circulation
- Industrial Service
- Building Service
- Chemical Plants
- Pollution Control
- Power Plants
- Marine Service





**Design Features:**

**1. Compact design** - Heavy shaft and short bearing span reduce shaft deflection, providing longer mechanical seal and bearing life, and lower maintenance costs. Requires less floor space.

**2. Casing** - Horizontally split, upper and lower half bolted and doweled to provide perfect alignment. Bearing supports are cast and bored integrally with lower half casing. Upper half easily removed for inspection of complete rotating assembly without disturbing bearings or alignment.

Flanged suction and discharge connections located in the lower half casing, permit inspection and maintenance without disturbing piping or drive alignment. Short dimension between suction and discharge flanges permits retrofitting of other split-case units.

**3. Impeller** - Enclosed, double-suction type. Cast in one-piece and hydraulically balanced to minimize thrust, ensure longer bearing life, and smooth operation. Keyed to shaft and locked in position by threaded shaft sleeves.

**4. Wearing Rings** - Close running clearance minimizes pressure leakage between suction and discharge chambers of the casing. Easily replaceable. Casing rings standard on all sizes are designed with a labyrinth to prevent rotation. No need to worry about a pin shearing under load. The

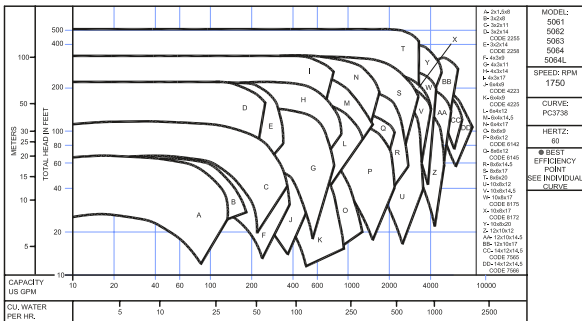
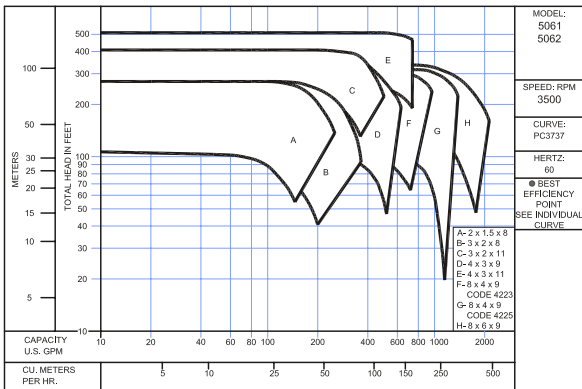
impeller ring is pressed on, then attached with double set screws.

**5. Shaft sleeve** - Protects the shaft against corrosion and wear. Extends through gland for maximum shaft protection. Outboard and inboard sleeves threading in opposite directions against the impeller hub so both sleeves tighten with rotation and allow for thermal expansion.

**6. Shaft** - Large diameter, precision machined; 4140 steel shaft provides maximum strength with minimum deflection. Alloy shafts are also available.

**7. Bearings** - Outboard bearing is double row type, accepting radial and thrust loads. Inboard bearing is single row, to handle radial load, and is free to move axially in housing to compensate for shaft expansion due to temperature changes. Dual lip seals protect from dirt and moisture. Grease lubrication is standard, with oil optional.

**8. Stuffing box/mechanical seal** - Stuffing box is extra deep to accept minimum of five rings of packing and lantern ring. Internally drilled liquid passage in upper half casing provides balanced pressure and lubrication to the packing/seal area and eliminates the requirement for outside recirculation lines that can be pinched or bent. External lubrication, such as water under pressure, may be connected to upper half casing. Heavy split gland facilitates maintenance. Wide choice of mechanical seals available.



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Printed in U.S.A.  
D5060BRO - Rev. B (5/14)



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