

7100 Dry Pit Solids Handling Sewage Pumps

Deming 7100 Series offers an expanded line of solids-handling centrifugal pumps for mounting in a (horizontal or vertical position) handling 3" spheres. Compact design and heavy shaft with optimum bearing span assure longer packing and bearing life with lower maintenance costs. Series 7100 pumps provide the outstanding performance required to meet the widest possible range of service conditions encountered by industry and municipalities. Typical applications include pumping sanitary wastes, industrial wastes, treatment wastes, storm water, process wastes, pollution control, cannery wastes and meat-process wastes.



Model 7190



Model 7160

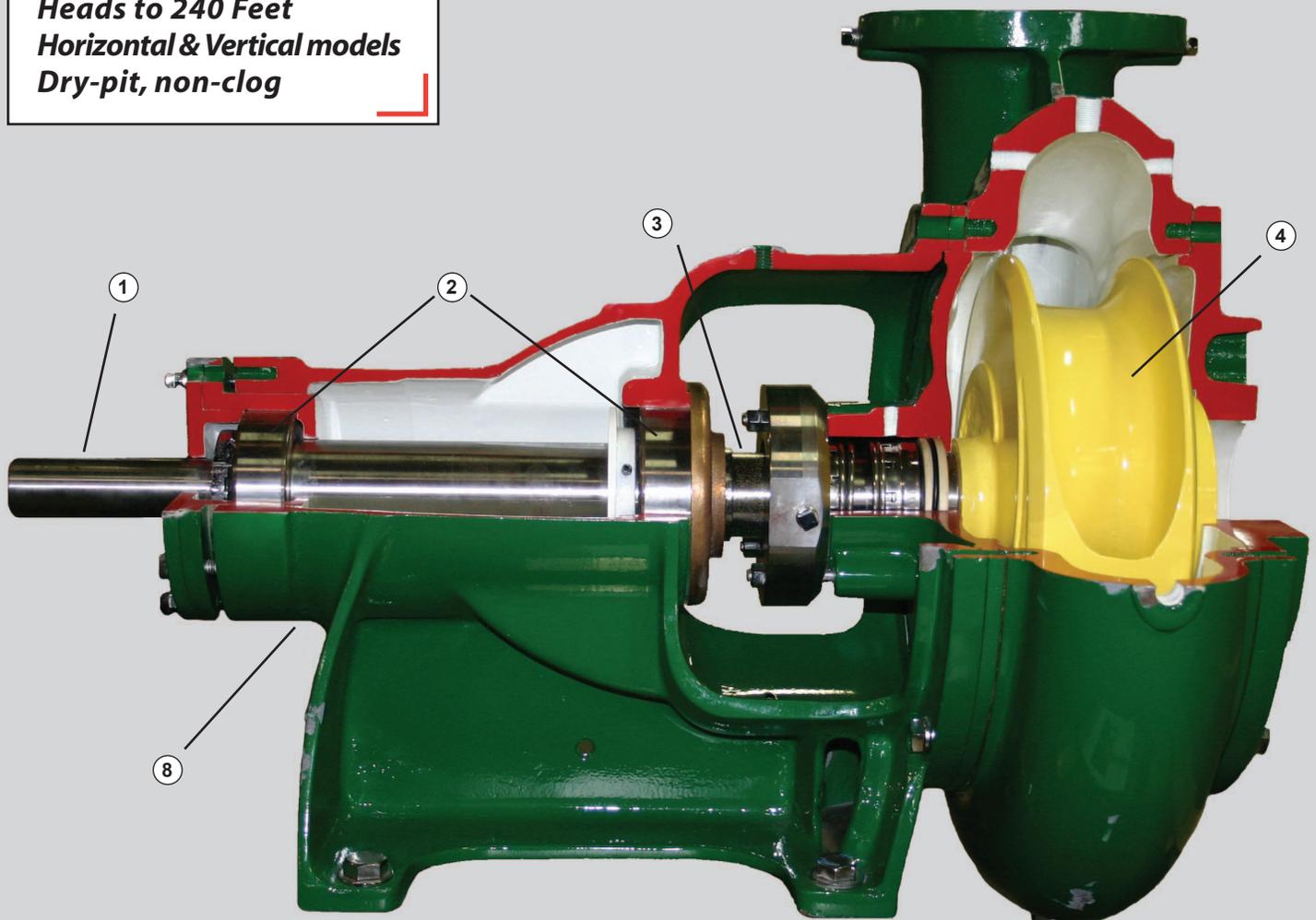


Model 7180

**Not Shown:
Model 7150
Model 7170**

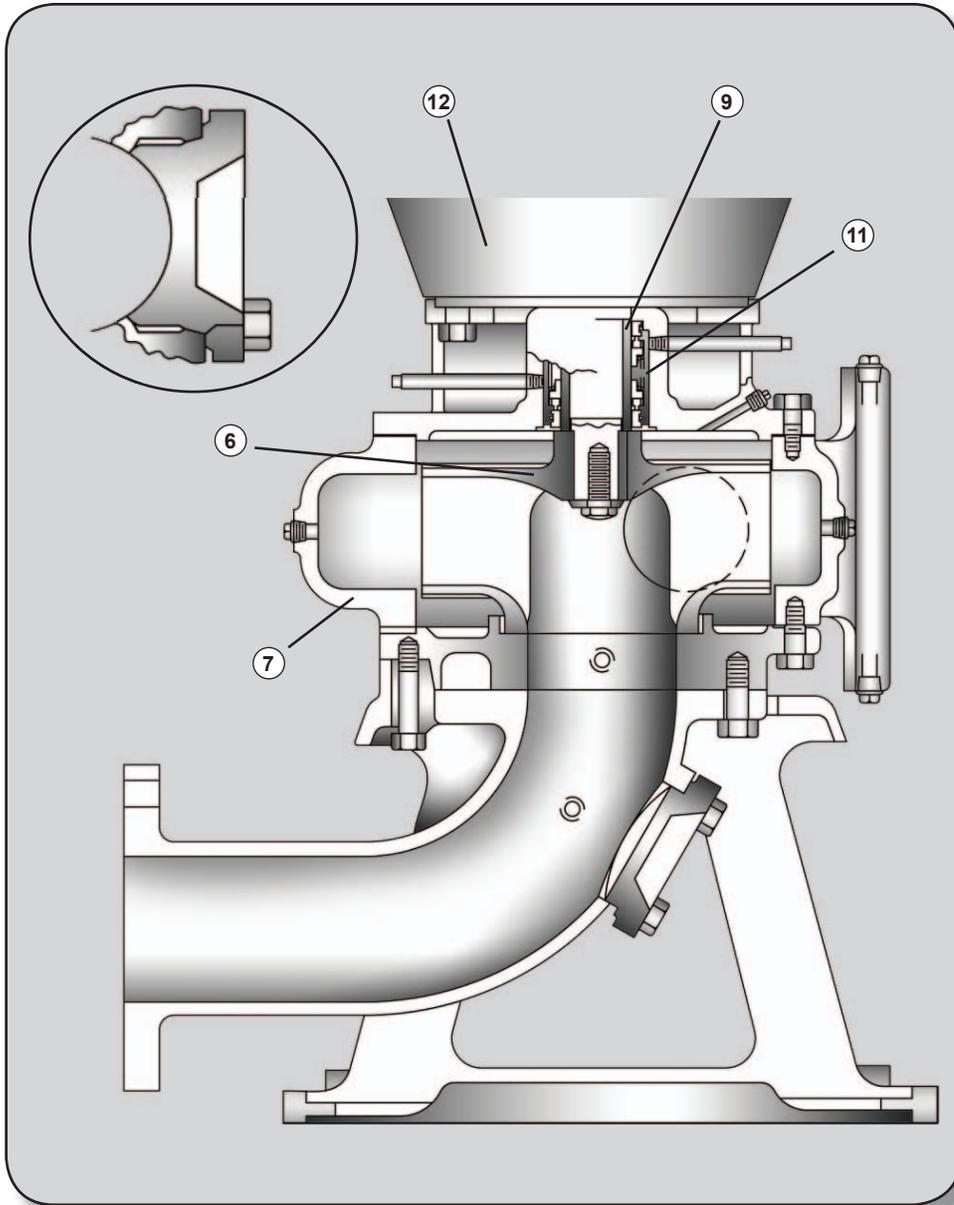
- **Model 7150** is vertically mounted, driven by a vertical motor or by a horizontal motor or engine through a right-angle drive and utilizing a universal-joint-type flexible shaft between the pump and the driver.
- **Model 7160** is horizontally mounted on a fabricated-steel baseplate with driver flexibly coupled to the pump.
- **Model 7190** is a vertically mounted unit, driven by a standard vertical NEMA C-flange motor, mounted on a sturdy motor pedestal and directly coupled to the pump shaft with a flexible shaft coupling.
- **Model 7170** is horizontally mounted and close coupled to a JM Frame Motor.
- **Model 7180** is vertically mounted and close coupled to a JM Frame Motor.

**Capacities to 5,000 GPM
Heads to 240 Feet
Horizontal & Vertical models
Dry-pit, non-clog**



Design Features:

1. Shaft - optimum diameter and bearing span allow maximum loads with minimum deflection.
2. Bearings - double-row outboard thrust bearing, inboard radial bearing. Grease lubricated.
3. Shaft sleeve - protects shaft against corrosion and wear.
4. Impeller - fully enclosed type, keyed to shaft and securely fastened with self locking impeller screw. Pumping vanes on back of shroud prevent accumulation of solids.
5. Stuffing box - extra deep to accept five rings of packing and lantern ring. Split gland for easy servicing. May be grease-lubricated or water sealed. (Shown with mechanical seal in lieu of stuffing box)
6. Base - rugged cast iron base supports vertically mounted units. Steel bases available, including drip-lip type, for horizontal units. (Not shown)
7. Elbow - vertical pumps include suction elbow that matches ANSI flange-fitting dimensions. (Not shown)
8. Frame - high strength cast iron frame is precision bored and machined with register fit to assure positive alignment of rotating assembly.



**Capacities to 2000 GPM
Heads to 150 Feet
1½" thru 3" Solids
2" thru 6" Discharge**

APPLICATIONS:

- Sanitary Wastes
- Industrial Wastes
- Treatment Plants
- Storm Water
- Hospitals
- Schools
- Process Industry
- Pollution Control

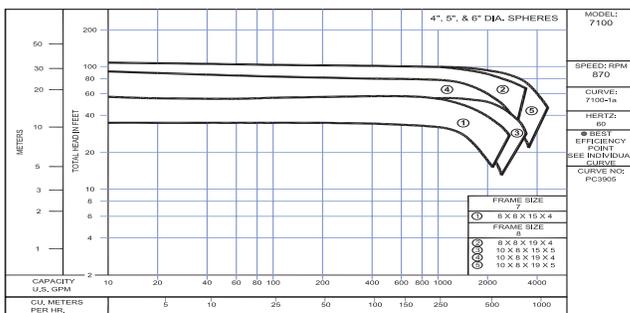
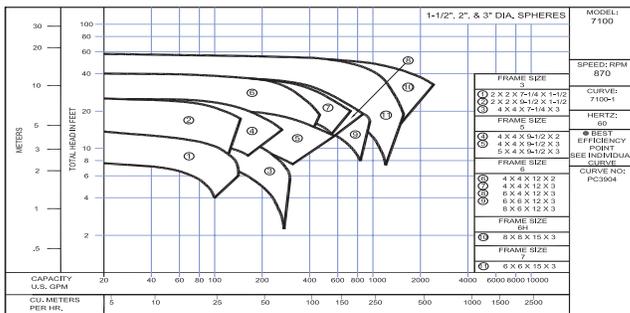
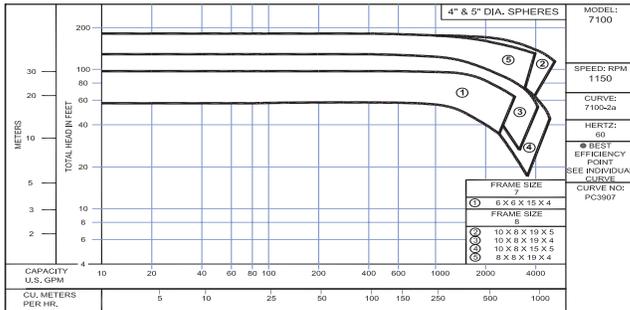
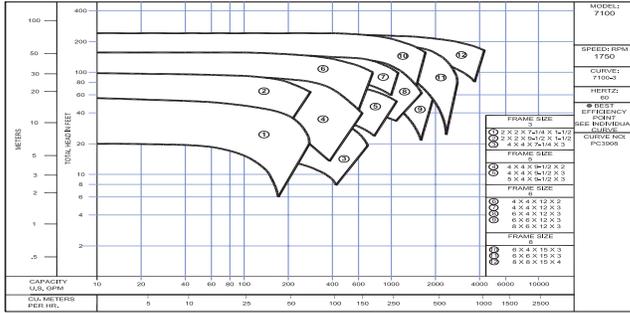
passageways, keyed and locked to shaft.

7. Casing - End suction volute design with large waterway to provide unobstructed flow of solids.
8. Wearing Rings - Renewable type wearing rings are available for impeller and suction cover; individually or as a set. Easily replaced to provide inexpensive renewal of wearing parts and maintain maximum pump efficiency.
9. Shaft Sleeve - Renewable, corrosion resistant stainless steel protects shaft against wear.
10. Materials of construction - All iron is standard construction and bronze fitted is optional.
11. Double mechanical seal - Provides positive sealing of shaft to prevent leakage of liquid being pumped. Seal includes ceramic stationary seats, carbon rotating faces, Buna rubber components and stainless steel metal parts.
12. Motors - Standard close coupled type JM design with large bearings fully protected from dirt and moisture to assure smooth, quiet operation.

Design Features:

1. Optimum Efficiency - Assured by improved end sealing between impeller skirt and suction cover. The end clearance is maintained by convenient adjustment.
2. Built with rigidity and stability - Positive alignment, simple low-cost installation and minimum maintenance make these motor-mount units ideal for installations where overall pumping costs and space requirements are important factors.
3. "Back Pull Out" Construction - Permits servicing rotating assembly without disturbing piping connections.
4. Inlet and outlet - May be rotated to facilitate the piping.
5. Large hand holes - Provide easy access for inspection or removal of unusual solids.
6. Impeller - Fully enclosed, solids handling type, accurately balanced, with extra smooth

Deming 7100 Series

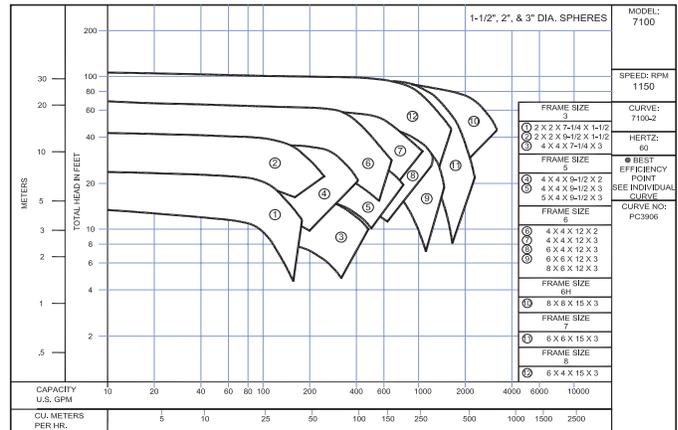


Construction Features: Standard

- Handles 3" spheres
- All iron pump construction
- Regreasable bearings
- Double-row outboard thrust bearing
- 416 stainless steel shaft sleeve
- External impeller adjustment
- Back pull-out design
- Positive machine-registered fit alignment
- Choice of rotation
- Suction elbow with handhole cleanout (vertical units)
- Pump-out vanes on back of impeller
- Handhole cleanout in casing

Construction Features: Optional

- Bronze fitted
- Oil-lube bearings on horizontal (7160 models only)
- 316 stainless steel, 440C hardened steel sleeves
- Discharge position options available
- Wearing rings for impeller and casing of cast iron, bronze, 316 stainless steel or CA-15
- Mechanical seals in lieu of packing
- OSHA-type coupling guard
- Automatic mechanical seal lubricator and filter assembly



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