DR.PUMP
& ENGINEERING
CO., LTD

SMART FLOW SOLUTIONS

Pumps, Valves, Water Treatment

VERTICAL LINESHAFT TURBINE PUMPS

High Efficiency long lifetime branded from Germany.

Dr Pumps vertical turbine pumps provide a wide range of hydraulic and mechanical coverage and are offered in numerous material and design configurations. These configuration options allow for custom-engineered construction tailored to suit your requirements while ensuring maximum value, high efficiency and long-term pump performance.

FEATURES

Enclosed-type bronze impellers are standard construction, but other materials are available. They cover a wide range of flow / head conditions and are balanced for **smooth operation**.

Dr Pump standard bowls are cast with integral vanes to guide the flow to the next stage with **minimum losses** and **maximum efficiency**. All bowls are porcelain-lined for protection and efficiency.

Bowl bearings protect the shaft and extend the life of the pumps. Both bronze and rubber seals protect the shaft and impellers against wear.

The two sealing surfaces prevent efficiency-robbing recirculation within the bowl. Minimal radial clearances between the impeller skirt and the bowl create a dynamic sealing surface.

The lateral ring is the static sealing surface, installed into the bowl below the impeller skirt. It is constructed of a rigid metallic core surrounded by heavy-duty resilient rubber. It protects bowl surfaces, provides protection for the impellers in case of catastrophic failures, and enables prolonged pumping efficiency.

Threaded column is an economical, durable choice for pumps up to 16 inches in diameter.

Pumps can be product lubricated (open lineshaft) or lubricated by oil, grease or fresh water (enclosed lineshaft).

The standard cast iron discharge head can handle pressures **up to 400 psi** and is standardized to accommodate the maximum number of NEMA motor sizes. Options include fabricated steel construction, underground discharge and more.

APPLICATIONS

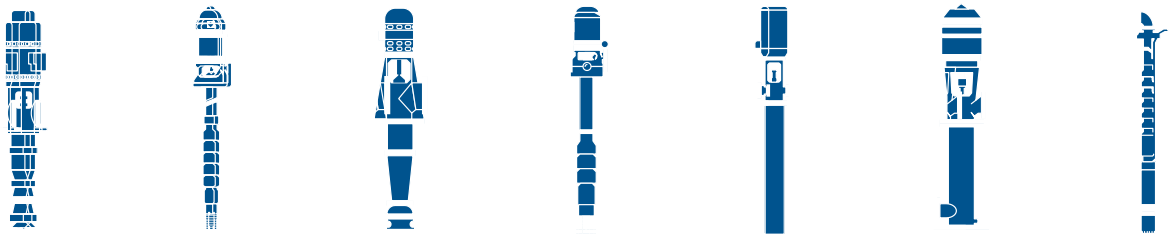
- *Water and other nonabrasive fluids*
- *Raw water transfer*
- *Finished water projects*
- *From small, single-pump commercial installations to large, multi-pump water supply systems certified to comply with NSF 61 and 372*
- *Mining*
- *Agriculture*
- *Municipal*

- *Fire protection*
- *Industrial*
- *Process*
- *Deep wells*
- *High-temperature and -pressure applications*

SPECIFICATIONS

Capacities	*Up to 100,000 gpm (22,712 m³/hr)*
Head	*Up to 2,500 feet (762 meters)*
Pressure	*To fit the application*
Horsepower	*Up to 5,000 hp (3,728 kW)*
Temperature	*Up to 180°F (82°C)*
Drives	*Vertical electric motors, engines with right-angle gears, combination gear drives, or vertical motors with variable speed drives*
Liquids	*Water or other nonabrasive liquids*
Materials	*Cast iron / bronze-fitted as standard; alternate materials available to suit the application*

VERTICAL LINESHAFT TURBINE PUMP TECHNICAL DATA



	Municipal Pumps	Deep Well Pumps	Axial and Mixed Flow Pumps	Vertical Fire Pumps	Encased Pumps	Pre-engineered Booster Pumps	Submersible Pumps
Type	*Municipal, industrial and process close coupled vertical turbine pumps.*	*Deep well line shaft pumps, water and oil lubricated, underground and surface discharge.*	*Hydrofoil pumps, PL propeller and mixed flow pumps for large water volumes, low to moderate head.*	*Vertical fire pumps, UL Listed and FM Approved. Designed for fresh water and sea water applications where a suction lift is required.*	*Encased (can type) water and process liquid pumps. Excellent for low NPSH requirements.*	*Vertical pre-engineered booster pumps for special applications, low NPSH, space saving.*	*Vertical submersible pumps for municipal and agriculture applications.*
Capacities	*Up to 150,000 USGPM (34,091 m^3/hr)*	*Up to 10,000 USGPM (2,273 m^3/hr)*	*Up to 220,000 USGPM (50,000 m^3/hr)*	*250 to 5,000 USGPM (57 to 1,136 m^3/hr)*	*Up to 150,000 USGPM (34,091 m^3/hr)*	*80 to 500 USGPM (18 to 114 m^3/hr)*	*Up to 8,000 USGPM (1,818 m^3/hr)*
Head	*Up to 2,300 feet (701 meters)*	*Up to 2,500 feet (760 meters)*	*Up to 100 feet (30 meters)*	*92 to 1,176 feet (28 to 359 meters)*	*Up to 6,930 feet (2,112 meters)*	*Up to 925 feet (282 meters)*	*Up to 1,000 feet (305 meters)*
Power	*Up to 5,000 hp (3,730 kW)*	*Up to 1,500 hp (1,118 kW)*	*Up to 5,000 hp (3,730 kW)*	*Up to 600 hp (448 kW)*	*Up to 2,000 hp (1,491 kW)*	*Up to 100 hp (75 kW)*	*Up to 500 hp (373 kW)*
Materials	*Machinable alloys and their combinations to suit the application and pumped liquid (B-110)*	*Machinable alloys and their combinations to suit the application and pumped liquid (B-100)*	*Machinable alloys and their combinations to suit the application and pumped liquid (B-300)*	*Cast iron/bronze-fitted as standard, optional materials available for sea water and other applications (B-1500)*	*Machinable alloys and their combinations to suit the application and pumped liquid (B-400)*	*Cast iron/ bronze fitted (B-2700)*	*Cast iron/bronze fitted, all iron, all bronze (B-700)*

Dr Pump & Engineering designs tough, versatile products to meet your pumping needs. Vertical lineshaft turbine pumps deliver variety, durability, standardized options and configurations unequalled in the industry.

For more information contact us or visit our web site
askpumpdr.com

Smart Flow Solutions
Pumps, Valves, Water Treatment
For More information
https://askpumpdr.com/

Dr. Pump & Engineering Co,. Ltd.
88/17 Village No. 7, Lat Lum Kaeo Subdistrict,
Lat Lum Kaeo District, Pathum Thani Province
www.askpumpdr.com

This flyer's contents subject to change without notice
© Dr Pump & Engineering