

# CHANDRA PUMPS

# VERTICAL TURBINE PUMPS

**DRIVER** - Options include VHS and VSS motors.

**SEAL** - Packed stuffing box as standard. Other sealing arrangements available upon request.

**COLUMN CONNECTIONS** - Threaded or flanged, as required. Bearings are cutless Rubber and bronze retainers.

**BOWL SHAFT** - Stainless Steel

**IMPELLERS**

**DISCHARGE HEAD** - Close Grained Cast iron heads are IS:210, and are above ground discharge.

**FLANGED CONNECTIONS**

**COLUMN PIPE** - Standard of IS:1978 / IS 2052 steel with interchangeable sections.

**LINE SHAFT**

**BOWLS** - Close Grained Cast iron interiors coated with enamel.

**Competitive Pricing • Quick Turn Around • Build To Order**

**VERTICAL TURBINE PUMP DEPENDABILITY AND RELIABILITY SINCE 1968**

## A QUALITY PRODUCT FROM ISO 9001:2000 CERTIFIED COMPANY

APPLICATION			
AGRICULTURE	PUBLIC UTILITIES	INDUSTRY	OTHERS
<ul style="list-style-type: none"> <li>● Tubewell Irrigation</li> <li>● Openwell Irrigation</li> <li>● River/Canal Irrigation</li> <li>● Sprinkler Irrigation</li> </ul>	<ul style="list-style-type: none"> <li>● Urban Water Supply</li> <li>● Rural Water Supply</li> <li>● Domestic Water Supply in high rise building</li> </ul>	<ul style="list-style-type: none"> <li>● General Service Water</li> <li>● Process &amp; Cooling Water Services</li> <li>● Raw &amp; Treated Water Services</li> <li>● Fire Fighting Services</li> </ul>	<ul style="list-style-type: none"> <li>● Mine Dewatering</li> <li>● On line Boosting</li> <li>● Water Fountain</li> <li>● Oil/Petroleum Handling Services</li> </ul>

GENERAL RANGE	CONSTRUCTIONS
<ul style="list-style-type: none"> <li>● Bowl Sizes from 100 mm to 1600 mm.</li> <li>● Capacity from 300 LPM - 40000 LPM</li> <li>● Head upto 200 Mts.</li> </ul>	<ul style="list-style-type: none"> <li>● Self-Water Lubrication, Oil Lubrication, External Water Lubrication</li> <li>● Motor Drive, Belt Drive, Gear Drive</li> <li>● Combination Motor-Gear Drive</li> <li>● Above Ground / Under Ground Discharge</li> <li>● Standard / Special Material of Construction</li> </ul>

### TECHNICAL SPECIFICATION

#### **PUMP BOWLS**

Pump Bowls are made of close grained cast iron free of any detrimental foundry or other defects. Bowls may be enamelled for their longer life, if desired.

#### **IMPELLERS**

The impellers shall be of Bronze enclosed or semi-open type statically and dynamically balanced. They shall be securely fastened to the pump shaft with tapered lock collets.

Enclosed type impellers shall be fitted with shrink fitted seal rings. Position of the impellers with respect to pump bowls shall be adjusted vertically by means of an adjusting nut.

#### **PUMP SHAFT**

The pump impeller shaft is made of precision ground stainless steel supported by bearings above and below each impeller. The suction case bearing is extra long, grease packed and protected by sand collar.

#### **COLUMN PIPE**

Column Pipes are of Mild Steel as per IS 1978/IS 2062 nominal lengths not exceeding 3 mt. each. Top and botton column pipes are of 1.5 Mt. length for ease of installation. Pipe size is so selected that friction loss will not exceed 1.5 Mt. per 30 Mt. of column assembly.

Pumps operating at speed more than 1800 RPM shall have column assembly in 1.5 mt Sections.

#### **DISCHARGE HEAD**

The pump shall be provided with a surface (or underground) discharge head with its top flange to suit the driver base

#### **THRUST BEARING HOUSING**

Thrust Bearing may be either in pump or in drive motor, depending on service/client requirement. Thrust bearing in pump may be anti-friction or tilting pad type – air cooled or water cooled.

#### **LINE SHAFT BEARING ASSEMBLY**

In a Water-Lubricated Pump Bearing Retainer is equipped with a “snap-in” rubber bearing, spiral grooved for better shaft cleaning action. Line shafts are fitted with a stainless-steel shaft sleeve at bearing locations.

For Oil Lubricated construction, a heavy steel tube as per IS : 1978 protects the shaft from corrosion and foreign matters.

Threaded Bronze Bearings are provided at intervals of 1.5 Mts. Reinforced rubber spiders centre the shaft and tube assembly in the column pipe. Oil Lubricated Pumps have speed less than 1800 RPM.

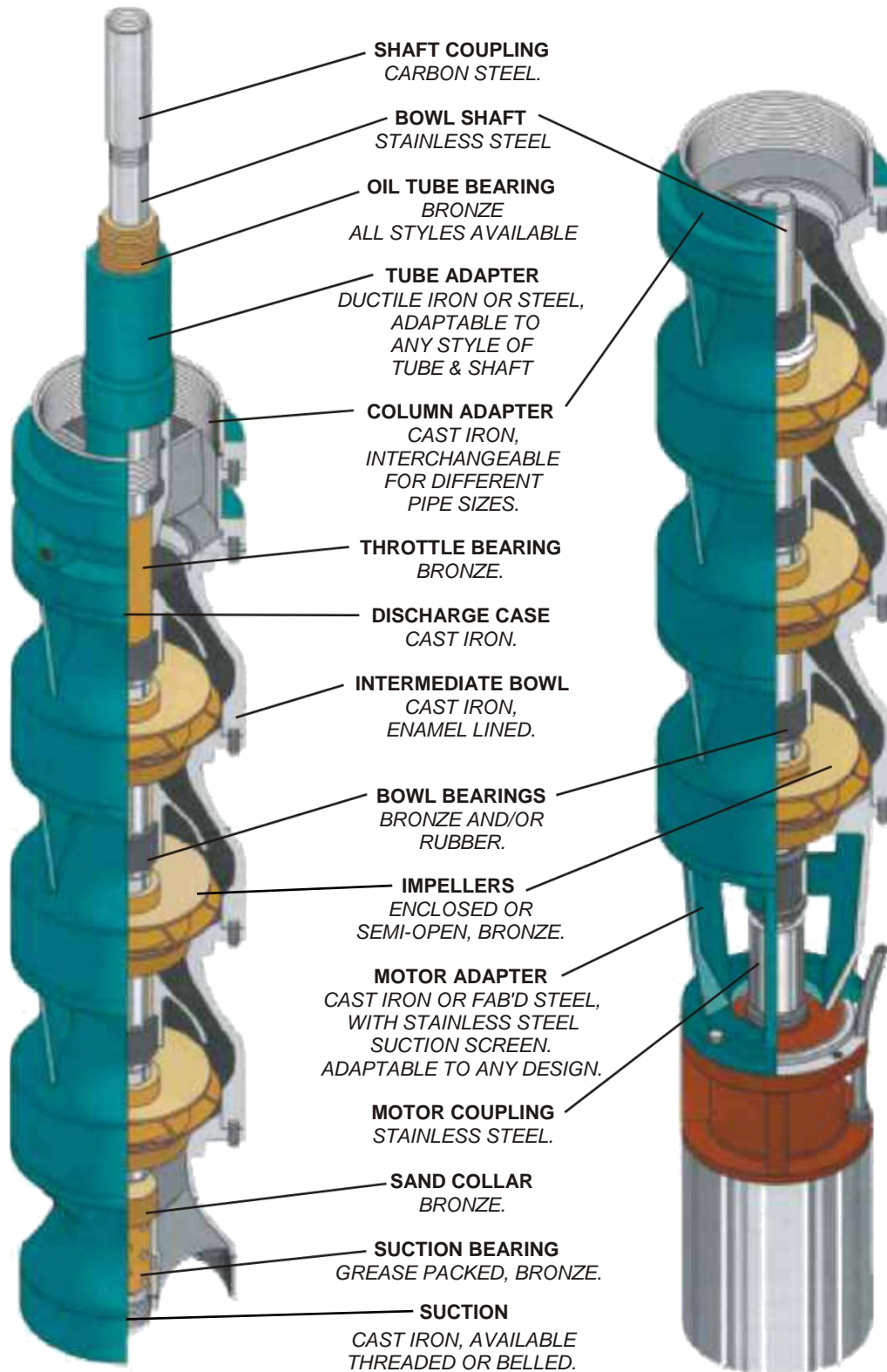
### SCOPE OF SUPPLY

STANDARD EQUIPMENT	DRIVER	OPTIONAL EQUIPMENT	ACCESSORIES
<ul style="list-style-type: none"> <li>● Discharge Head Assembly</li> <li>● Column Assembly</li> <li>● Bowl Assembly</li> <li>● Strainer</li> <li>● Pre-lub. Tank Assembly (Water-lub Pump of high setting)</li> <li>● Oiler Assembly (Oil-lub Pump)</li> </ul>	<ul style="list-style-type: none"> <li>● Motor</li> <li>● Diesel Engine with                             <ul style="list-style-type: none"> <li>– Belt head attachment</li> <li>– Right Angle Gear Drive</li> </ul> </li> <li>● Turbine</li> </ul>	<ul style="list-style-type: none"> <li>● Depth Gauge with Airline Pipe and fittings</li> <li>● Sole Plate</li> <li>● Companion Flange</li> <li>● Foundation Bolts</li> <li>● Thrust Bearing Housing</li> <li>● Non Reverse Ratchet</li> </ul>	<ul style="list-style-type: none"> <li>● Sluice Valve</li> <li>● Non-Return</li> <li>● Pressure Gauge with fittings</li> <li>● Motor Control Gear</li> </ul>

### DATA REQUIRED FOR SELECTION OF A VERTICAL TURBINE PUMP

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|---|---|
| <ul style="list-style-type: none"> <li>● Capacity</li> <li>● Total head</li> <li>● Speed of operation (full load driver rpm).</li> <li>● Setting for well application (column length or pumping water table)</li> <li>● Inside diameter and length of upper well casing.</li> <li>● Overall depth for sump application (from bottom of mounting base to bottom of sump) with maximum and minimum water levels.</li> </ul> | <ul style="list-style-type: none"> <li>● Surface or underground discharge.</li> <li>● Water analysis, it other than clear water.</li> <li>● Driver data                             <ul style="list-style-type: none"> <li>Type of drive</li> <li>A.C. power supply details.</li> <li>Diesel engine / Gear drive details.</li> <li>Horizontal motor details.</li> </ul> </li> </ul> |
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# CHANDRA PUMPS



(Oil lubricated assembly shown product lubricated assemblies also available.)

Special alloy materials available upon request.



## About us

Chandra Pumps Pvt. Ltd., Established in 1968 is the leader in manufacturing of Vertical Turbine pumps for over 35 years, have successfully installed over 5000 Vertical Turbine Pumps.

With its strong experience & technology it provides solutions for variety of customers in many Government, Semi Govt. & Private Industries, OEM's consultants and many others.

Our dedicated factory at Meerut (NCR) equipped with modern equipments together with full-fledged testing and quality assurance department and proven past record makes us leaders in the field of Vertical Turbine Pumps.



## Our Satisfied Clients

U.P. JAL NIGAM - (Meerut, Ghaziabad, Jhansi, Mahoba, Kanpur, Bareilly, Lucknow, Agra, Gorakhpur, Allahabad, Varanasi, Banda), Bhakra Beas Management Board, UTTARNCHAL PEY JAL NIGAM - (Haridwar, Kotdwar, Haldwani, Almora) MES - (Agra, Delhi, Ambala, Pathankot, Jammu, Meerut, Sri Nagar, Mathura, Bathinda, Kanpur, Bareilly, Shahjanpur, Udhham Singh Nagar) ORDNANCE FACTORY - (Muradnagar, Hazratpur, Shahjahanpur, Bhandara) U.P. Irrigation Dept., Modi Xerox Ltd., DSM Sugar, Daurala Sugar Works, Lords Distillery, Hindustan Aeronatics Ltd., Plantation Corporation of India, Bharat Electronics Ltd., ITC Ltd., Bajaj Hindustan Ltd., Punjab Water Supply & Sewage Board, Uttar Pradesh State Electricity Board, NTPC, Venus Sugar Ltd., Venus Cement Ltd., Haryana State Minor Irrigation Tubewell Corp., Ajudhiya Distillery Shah Wallace Distillery, CONTROLLER OF STORES - Haryana, Punjab, THERMAL POWER STATION - Faridabad JAL SANSTHAN - (Agra, Jhansi), Jindal Polyester Ltd., Jind Co-op Sugar Mills, Railways, Mansarovar Bottling Co. Ltd. (Coke), Mawana sugar Works, Mansurpur Sugar Mills, Western Coalfields Ltd., Titawi Sugar Complex, Modi Sugar Mills, Modi Rubber Ltd., Modi Vanaspati Co. Ltd., Upper Ganges Sugar & Industries Ltd., Seohara, Oudh Sugar Mills Ltd., K.M. Sugar Works Ltd., Shamli Distillery & Chemical Works, Daurala Organics Ltd., Star Paper Mills Ltd., Synthetic & Chemical Ltd., Bharat Starch & Chemical Ltd., Rauzagaon Sugars, Dhampur Sugar Mills Ltd., Bazpur Distillery, Simbhaoli Sugar Mills Ltd., Municipal Corporation Shahdol (M.P.), Minor Corporation, Patna (Bihar), PUBLIC HEALTH DIVISION - (Quilon, Mavelikara, Kottayam, Shadol, Trivandrum)



### Contact Us :

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