



Vertical Turbine Pump



80/30 Tiwanon 48
Thasai, Nonthaburi
(+66) 02 952 2561
www.wgflow.com



Enclosed line shaft

Coupling parts

- designed high safety factor
- flexible pin coupling, spacer coupling, rigid coupling are available.

cooling water for thrust bearing

Water lubricating for line shaft bearing

discharge head

- welded construction
- DN≤600 is press forming
- DN>600 is welded
- pressure measuring hole

Line-shaft bearing

- PTFE, Rubber, Thordon, Bronze are available
- sufficient lubricating water channel with good cooling and lubrication

Column pipe

- welded construction
- support bracket for supporting and hoisting

Wear ring

- double sealing, impeller no touch with pump sealing ring, impeller has a long life
- spiral chute in impeller sealing ring, impurities can be moved out, which prolong impeller life

Impeller

- designed by three-dimensional flow, CFD simulation, high efficiency
- wide performance range
- balance hole can carry axial force
- metal mould, precision casting
- coating material can be used for increasing efficiency, corrosion-resist...

Thrust bearing parts

- double bearing, less vibration and noise
- FAG/SKF/NSK bearing
- reserved hole for temperature and vibration measuring, for remote control

Shaft sealing

- packing seal
- leak tray leading leaks from packing seal

Enclosed tube

- protecting shaft sleeve and bearing
- with lifting hole outside

Line-shaft bearing body

- less water resistance

Muff coupling

- Less vibration and noise

Diffuser

- designed by three-dimensional flow, CFD simulation, high efficiency
- wide performance range
- with auto sealing device, prevent impurities in, when stop running
- coating material can be used for increasing efficiency, corrosion-resist...

Sand throwing disc

- prevent impurities into impeller bearing hole

Bell mouth

- bearing support can make more stable running

Strainer

- special for sewage, no-clogging

Open line shaft

Coupling parts

- designed high safety factor
- flexible pin coupling, spacer coupling, rigid coupling are available.

cooling water for thrust bearing

discharge head

- welded construction
- DN≤600 is press forming
- DN>600 is welded
- pressure measuring hole

Thrust bearing parts

- double bearing, less vibration and noise
- FAG/SKF/NSK bearing
- reserved hole for temperature and vibration measuring, for remote control

Shaft sealing

- packing seal
- leak tray leading leaks from packing seal

Line-shaft bearing

- PTFE, Rubber, Thordon, Bronze are available
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Line-shaft bearing body

- less water resistance

Column pipe

- welded construction
- support bracket for supporting and hoisting

Muff coupling

- Less vibration and noise

Impeller

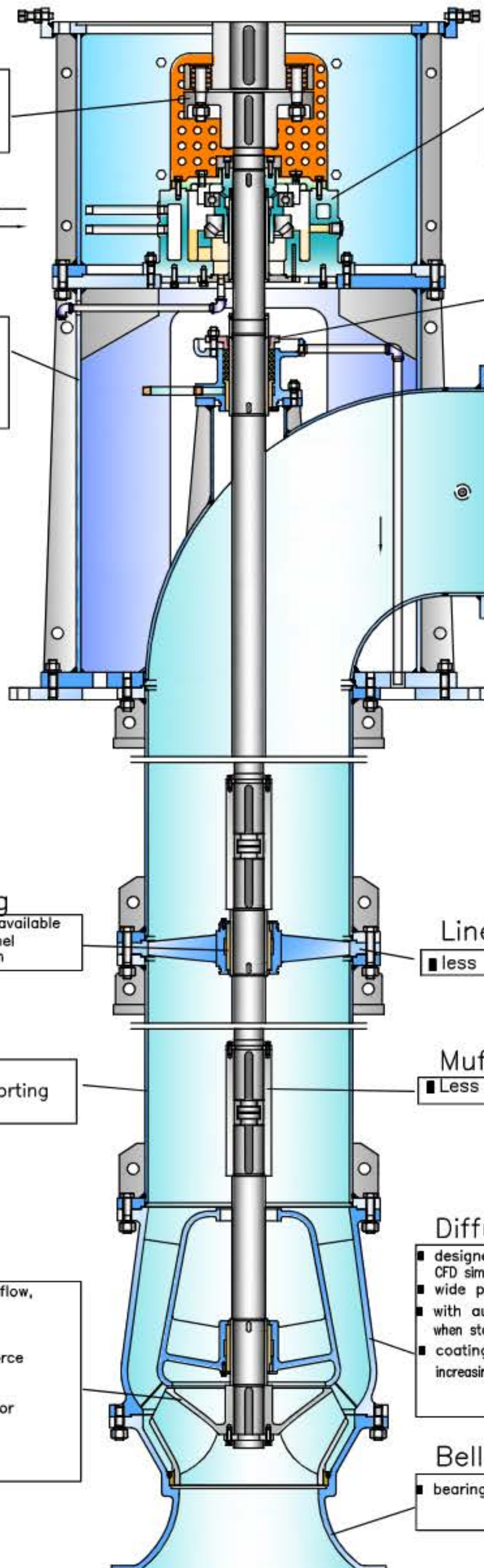
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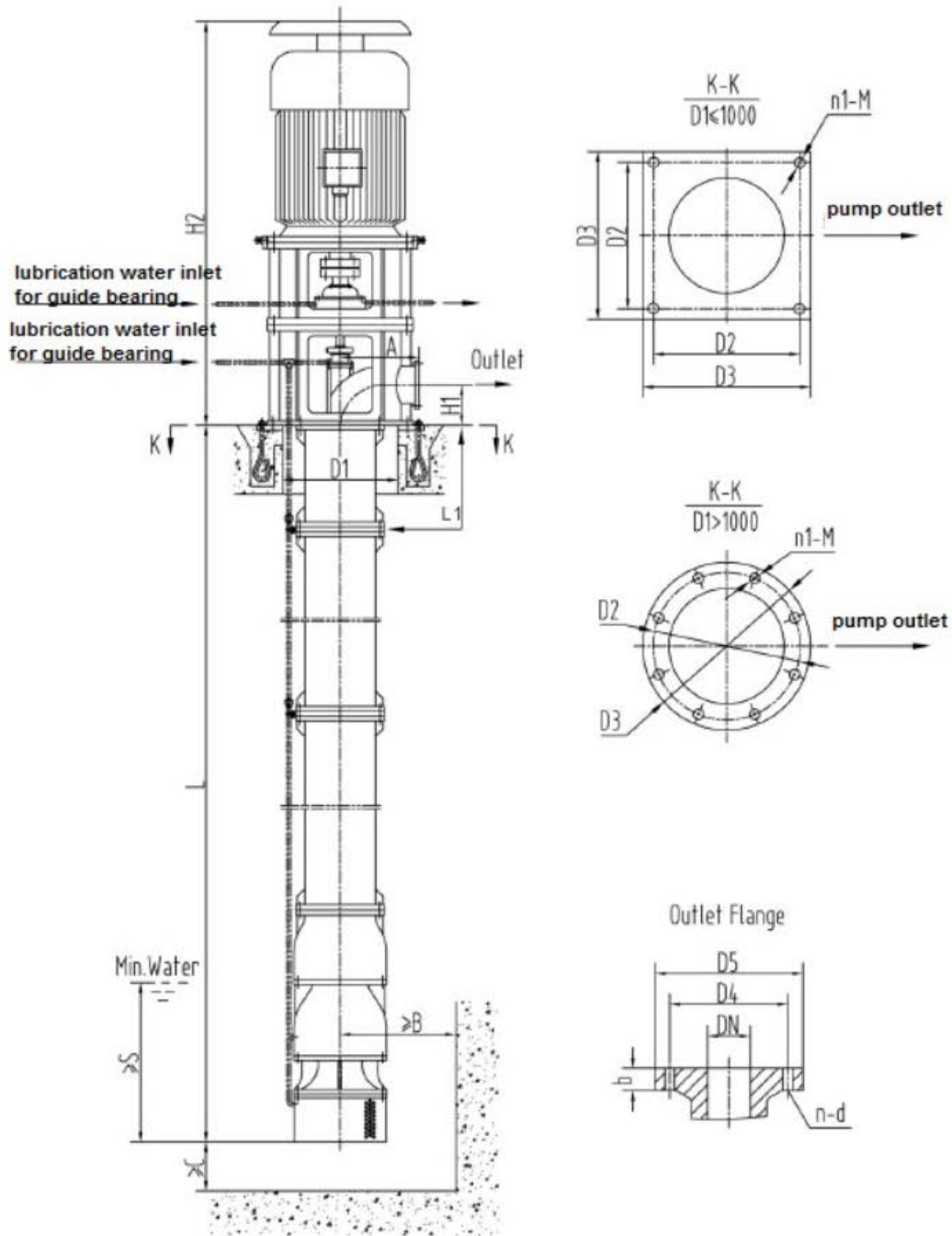
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Bell mouth

- bearing support can make more stable running



INSTALLATION DRAWING



Ordering Instructions

1) In ordering, indicate the name, model and specification of electric vertical pump, as well as the number of units, installation form, range of complete set, starting method, head, flow, power, voltage, water quality condition, and material of main parts, note that the selected head is the total head including total head loss of pump unit, and if the estimation of total head is not accurate, indicate the net head and installation form to consult the Company about the accurate head, and confirm the model and specification of electric vertical pump.

2) The maximum head and minimum head of pump should refer to the performance curve and performance table of this sample. The parameters of supporting motor, etc. in the sample are for reference only, and the actual working condition parameters of the pump station will prevail. If the pump parameters exceed the specified range, please consult the Company.

3) When selecting the installation form, the sample size is preferred for the steel shaft installation. To change the size in the table or select the installation dimension of other installation form, please consult the Company.

4) When ordering, pay attention to the complete set range as listed in this sample. The compulsory parts should be preferred and the optional parts are recommended.

5) The starting method may be direct starting, self-coupling voltage-reduced starting and soft starting. The Company can provide various starting cabinets, control cabinets and pump station integrated automation control systems which are equipped with HD protection controller and HD static insulation resistance monitor for electric submersible pump.

6) It's indicated in contract that 50Hz order requirement is accepted. The special products of other frequency (e.g. 60Hz) can be negotiated in ordering.

Note:

The electronic product selection manual can be downloaded at the company website , or be demanded through letter.

บริษัท วิงส์ แอนด์ กวีนเนส จำกัด คือผู้นำในการให้บริการด้านน้ำและการจัดการน้ำ เรามุ่งมั่นที่จะพัฒนาและริเริ่มนวัตกรรมอย่างต่อเนื่อง เพื่อยกระดับผลผลิต และหาโซลูชันที่คุ้มค่าและคุ้มค่าในการจัดการกับปัญหาด้านน้ำของลูกค้าของเรา ต้องเผชิญในปัจจุบัน

**Wings**
PUMPS

บริษัท วิงส์ แอนด์ กวีนเนส จำกัด
80/30 หมู่ที่ 2 ซอย ติวานนท์ 48 ตำบลท่าทราย
อำเภอเมืองนนทบุรี จังหวัดนนทบุรี 11000
โทร. 02 952 2561 อีเมล contact@wgflow.com
wgflow.com

