



TD PUMPS

TDSF Split Casing Pumps

MAIN FEATURES

1 SEALING SYSTEMS

- Stuffing box
- Single or double mechanical seal
- Cartridge seal
- Split seal for short maintenance times
- Replacement of seals without dismantling the casing

2 SPLIT VOLUTE CASING

- Sealing of the upper and lower parts with O-rings ensures short maintenance times

3 DOUBLE SUCTION IMPELLER

- Efficiency of up to 91%
- Impeller with or without staggered blades (according to specific design)
- For P&P, low pulsation impeller with staggered blades

4 SHAFT BEARING FOR OIL OR GREASE LUBRICATION

- Compact and robust bearing ensures ease of installation and long life

5 SECOND SHAFT END

- For flexible choice of drive side
- Provided as standard

6 CONNECTION FLANGE

- According to DIN, ANSI, mating-flange with polishing on demand

7 PEDESTAL/LEGS

- Flexible and easy pump mounting
- Foundation with motor available on request

TDSF SPLIT CASING Pumps

With efficiencies of up to 91%, TDSF Double-flow impeller axial split case water pump in-line casing for industry help to save valuable energy. All pumps are fitted with a double-flow radial impeller which achieves very favorable NPSH values. Due to the axial split case design, maintenance is fast and easy. Designed with a double-flow radial impeller and in-line casing, the pump can be installed horizontally or vertically (with horizontal installation, the motor can be placed on the left and/or right). These pumps can be used in a wide range of industrial processes. In the water sector, TDSF split case pumps operate in water treatment and water supply systems as well as in irrigation, flood control, and desalination. They can also be used as circulation water or cooling water pumps for power stations, industrial plants and district heating networks.



Hebei Tongda Pump Co.,Ltd

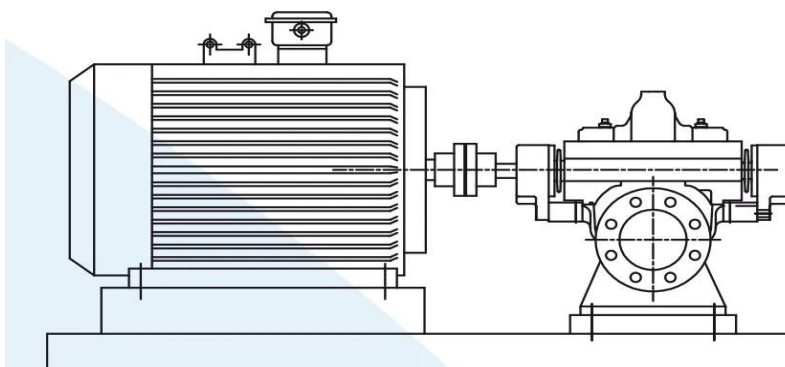


APPLICATION AREA

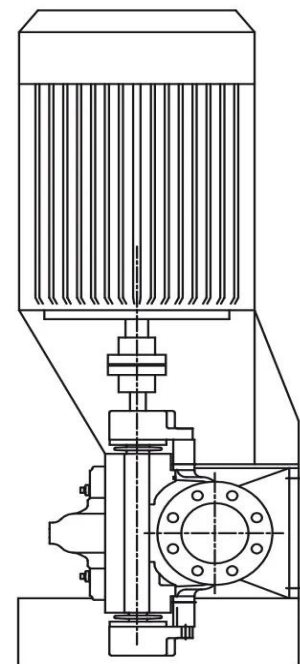


TLNH series high-efficiency double-suction centrifugal pump is generally used to transport clean water without solid particles or other liquids with physical and chemical properties similar to water. It can be widely used in: high-rise water supply, building fire protection, central air-conditioning water circulation, circulating water supply in engineering systems, cooling water circulation, boiler water supply, industrial water supply and drainage, water conservancy irrigation, especially in water plants, paper plants, power plants, thermal power plants, steel plants, chemical plants, water conservancy projects Irrigation area water supply, etc.

Different pump and motor arrangement and orientation



Horizontal



Vertical



STRUCTURE

Impeller

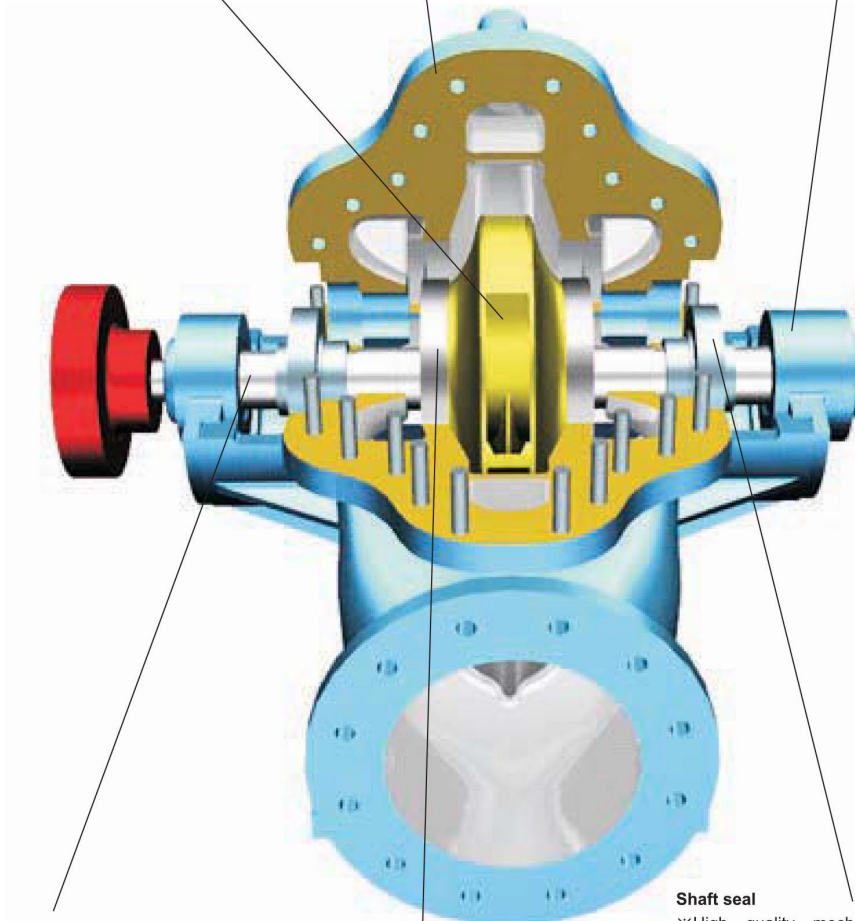
- ※Double suction impeller is used to minimize axial force
- ※Best hydraulic model of CAD optimization design with good performance
- ※A modified impeller can also be used to meet requirements under different conditions to improve efficiency.

Volute

- ※According to stress a double volute type is adopted to reduce radial force, ensuring limited bearing stress
- ※Easy to install. The pump cover can be automatically aligned.
- ※Relative position of inlet and outlet pipelines of motor and pump body can be adjusted according to the requirements of the user's site.
- ※There is no vortex at inlet. Operation is stable with low loss.

Bearing

- ※Rolling bearing which is lubricated by grease. Easy to maintain. Bearing is enlarged to have a long service life.
- ※End bearing is installed with bearing sleeve and key, which is fixed, reliable and easy to dismount.



Shaft

- ※The diameter of the shaft has been increased to provide greater rigidity and stable operation with a modern structure.
- ※There is no damage when the rotor rotates backward for a short term. It is also easy to change direction.
- ※Shaft is completely sealed and does not have contact with any liquid. It has anti-corrosion threads.
- ※Parts can ensure the installation size. There is no need to adjust the pump during installation.

Sealing ring

- ※The sealing ring, which can be replaced, protects pump body against wear and tear, decreases maintenance costs and keeps operations effective by adjusting appropriate clearance.

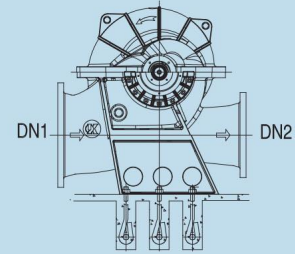
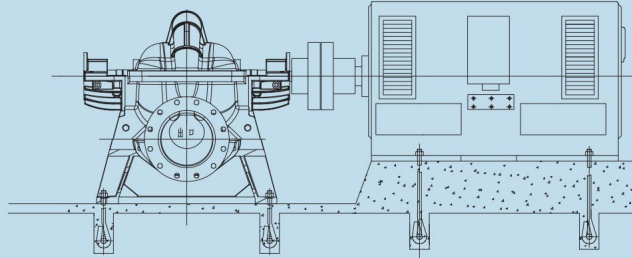
- ※The whole series can be equipped with a welded steel base which is extremely tough and impact resistant, as well as lightweight and durable.

Shaft seal

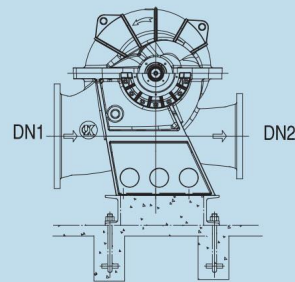
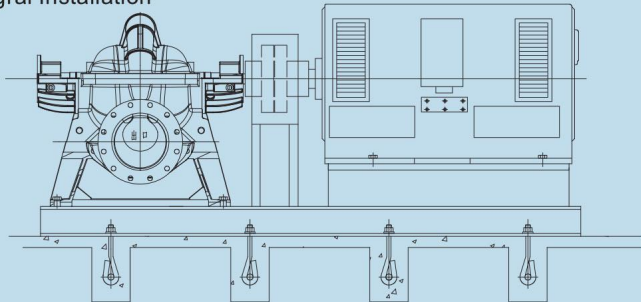
- ※High quality mechanical seal without leakage. Mechanical seal shaft sleeve is made of stainless steel which is resistant to corrosion and is easily maintained.
- ※Asbestos-free soft packings which meet environmental requirements are used.
- ※Injection type of soft packing which has the function of on-line maintenance is used. There is no need to shut down for maintenance, which can avoid cost losses associated with stopping production. Friction power loss is low without leakage.



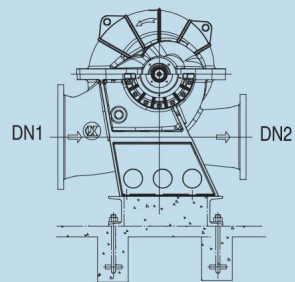
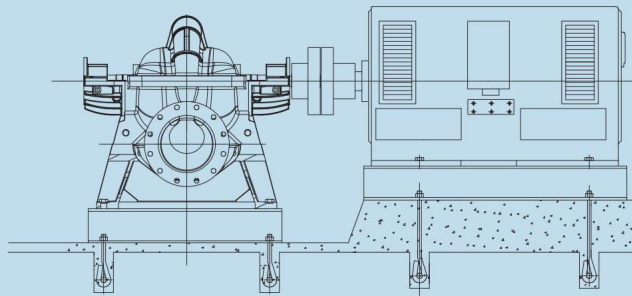
Direct Installation



Integral Installation



Split Installation



MATERIAL

	Cast iron	Cast steel	SS304/L	SS316/L
Casing	☒	☒	☒	☒
Impeller	☒	☒	☒	☒
Cover	☒	☒	☒	☒
Machine seal	☐	☒	☒	☒
Shaft sleeve	☒	☒	☒	☒

Also producing according to the material requirements of customers.



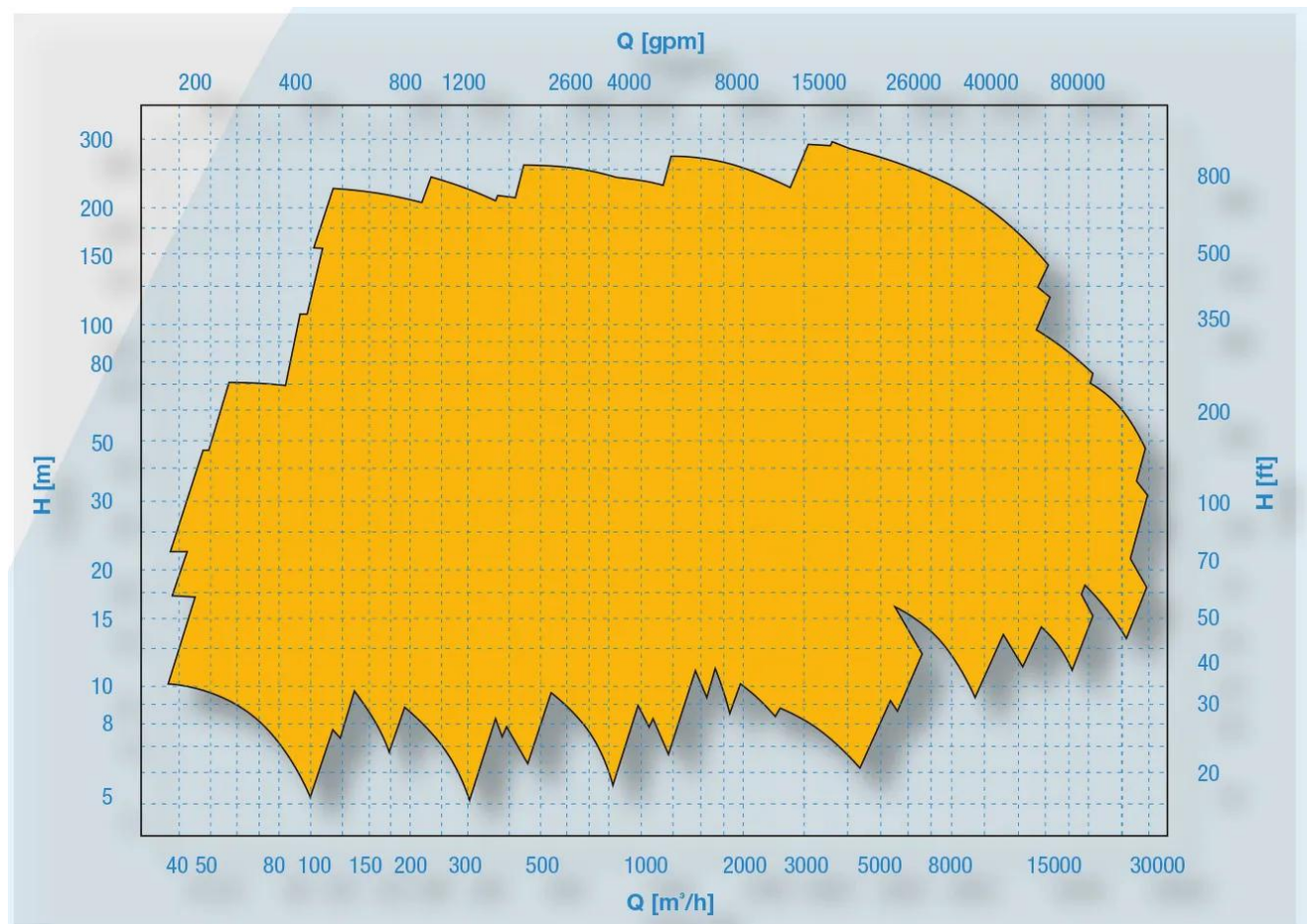
PERFORMANCE

Flow: 112-17000m³/h

Head: 10-155m

Power: 30-1800kw

Inlet diameter: 150-1000mm



HEBEI TONGDA PUMP CO.,LTD

Our quality and high-efficiency products as well as our understanding of customer requirements have made us a preferred partner for pumping solutions worldwide.

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