

# CDM

Double Suction Pump (Size : 200 to 1400m )



# Horizontal Axially Split Double-Suction Pump

**TORISHIMA** CDM is designed with the most advanced hydraulics, providing less noise and vibration, wider operating range, lower NPSH required and higher efficiency. Higher pump efficiency saves energy and reduces life cycle cost.

## Applications

- Energy industry : Water Intake, Distribution, Boosting, Circulation, Drainage, Fire-Fighting, Cooling Water
- General industry : Water Intake, Distribution, Boosting, Circulation, Drainage, Seawater Desalination, Fire-Fighting
- Building : Water Supply, Drainage, District Heating and Cooling
- Water works : Water Intake, Distribution, Water Supply
- Agriculture : Irrigation, Drainage
- Others : Pipe-Line Boosting, etc.

## Technical Data

- Capacity : 180 to 33,000 m<sup>3</sup>/h (790 to 145,200 USgpm)
- Total head : 3 to 300 m (10 to 980 ft)
- Size : 200 to 1400 mm (8 to 55 in)
- Temperature : up to 80°C (175°F)

## Types of Water Handled

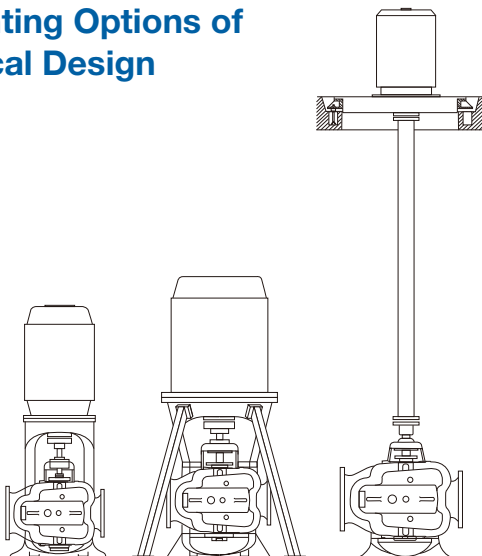
Fresh water, Industrial water, River water, Sea water, Crude oil, etc.

## Materials

Torishima's flexible manufacturing policy allows pumps to be produced in a wide range and combination of materials.

- Volute casing : Cast Iron, Ductile Cast Iron, Stainless Steel, Duplex Stainless Steel
- Impeller : Bronze, Stainless Steel, Duplex Stainless Steel
- Shaft : Carbon Steel, Chrome-Molybdenum Steel, Stainless Steel, Duplex Stainless Steel
- Shaft Sleeve : Stainless Steel, Duplex Stainless Steel

## Mounting Options of Vertical Design



Potable Water Transmission pump  
CDM800×500mm, 4,740m<sup>3</sup>/h, 250m, 4,700kW



Irrigation Pump  
CDM800×600mm, 4,200m<sup>3</sup>/h, 60m, 900kW



Potable Water Pump CDM400×350mm, 1,620m<sup>3</sup>/h, 35m, 200kW  
CDM350×300mm, 1,080m<sup>3</sup>/h, 35m, 150kW



Potable Water Pump  
CDMV350×300mm, 1,137m<sup>3</sup>/h, 45m, 185kW

# Design Features

## Bearing Options

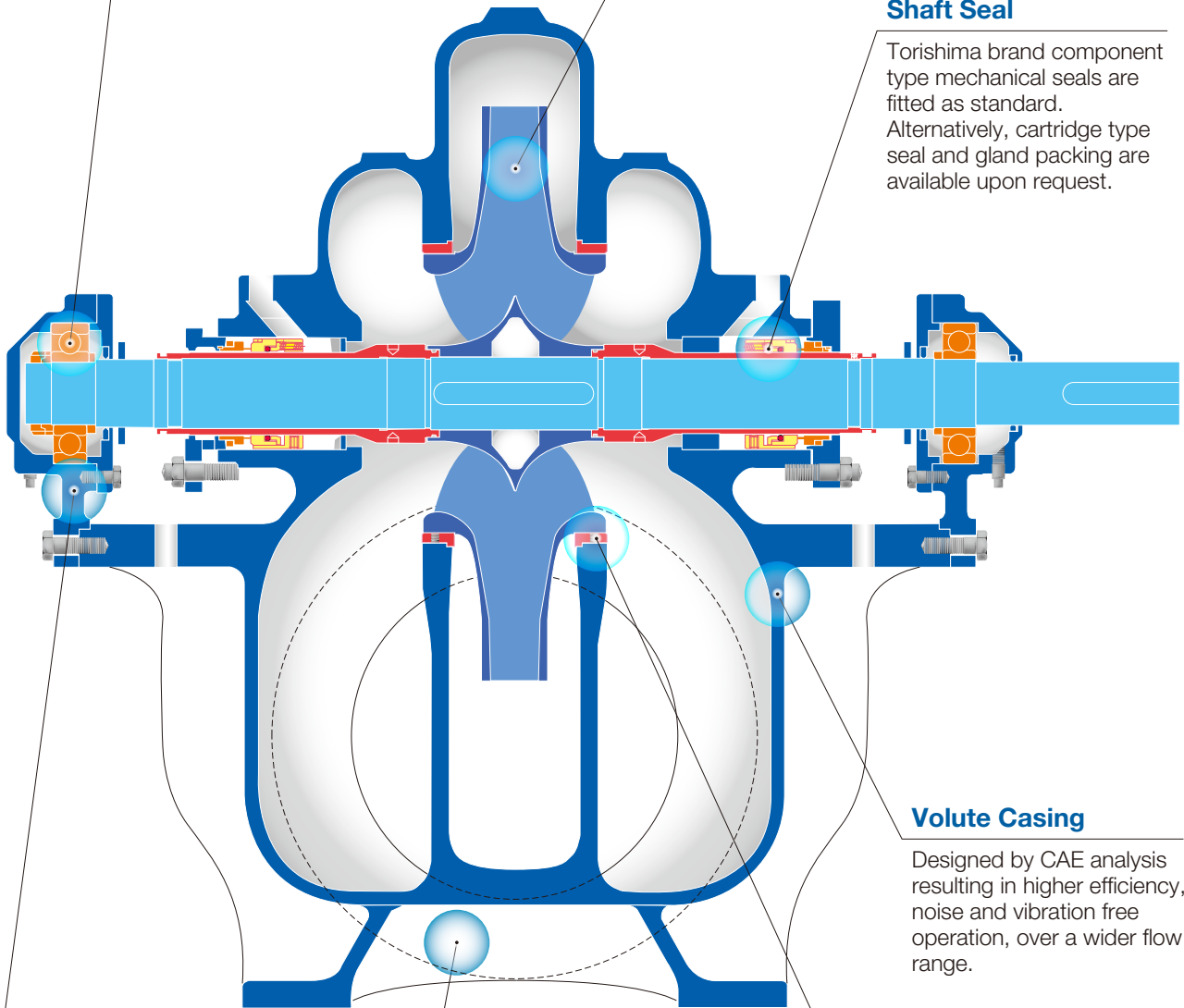
- Grease-lubricated ball bearing
- Oil-lubricated bearing is available for high temperature pumped liquid or in accordance of standards.
- Sleeve radial bearing and/or tilting pad type thrust bearing are available for engineering CDM range when required.

## Impeller

Double Entry is hydraulically balanced to reduce axial thrust and NPSH requirements. Multiple hydraulics cover wide operation range to maximize optimum efficiency and reliability.

## Shaft Seal

Torishima brand component type mechanical seals are fitted as standard. Alternatively, cartridge type seal and gland packing are available upon request.



## Bearing Support

Integral bearing support gives more rigid construction, reduces shaft deflection, and improves bearing and seal life.

## Suction & Discharge Flanges

Flange can be drilled to meet various international standards such as JIS, ASME, EN, ISO, etc.

## Volute Casing

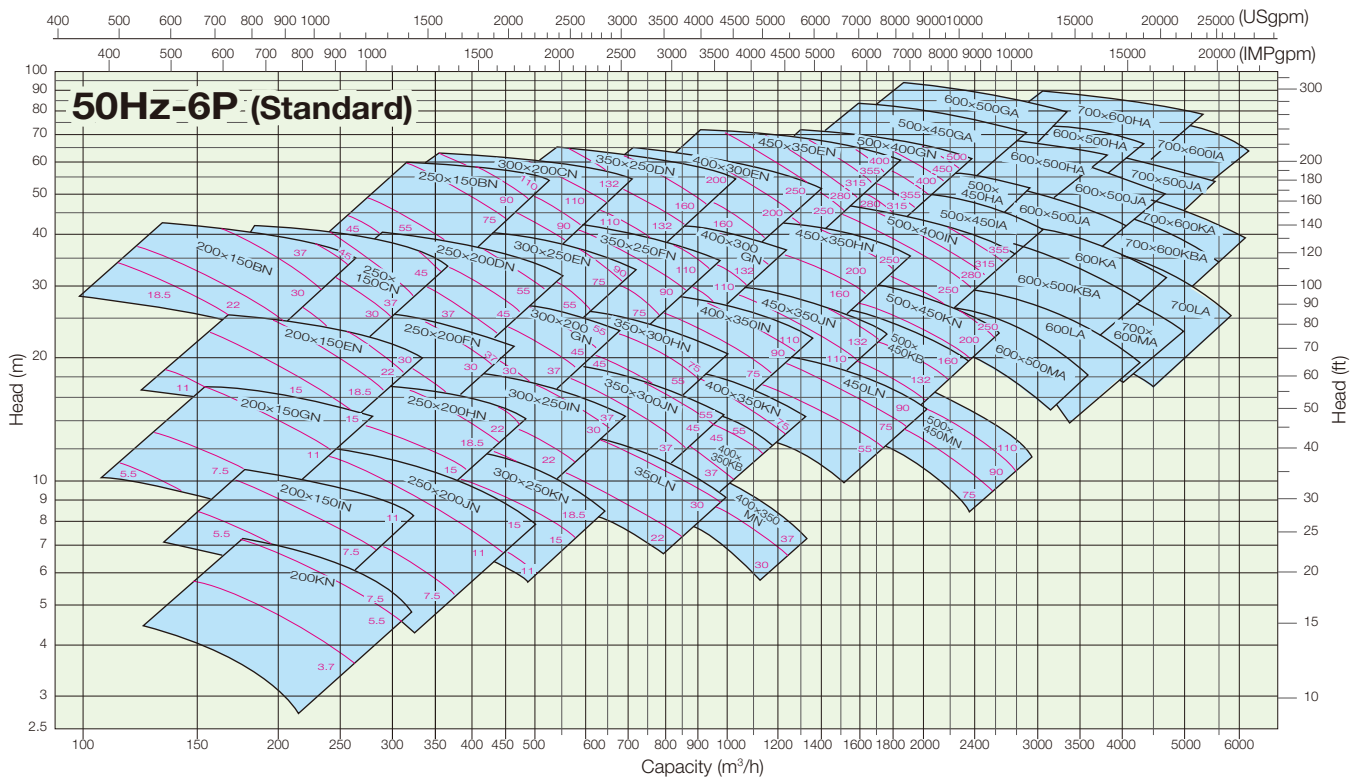
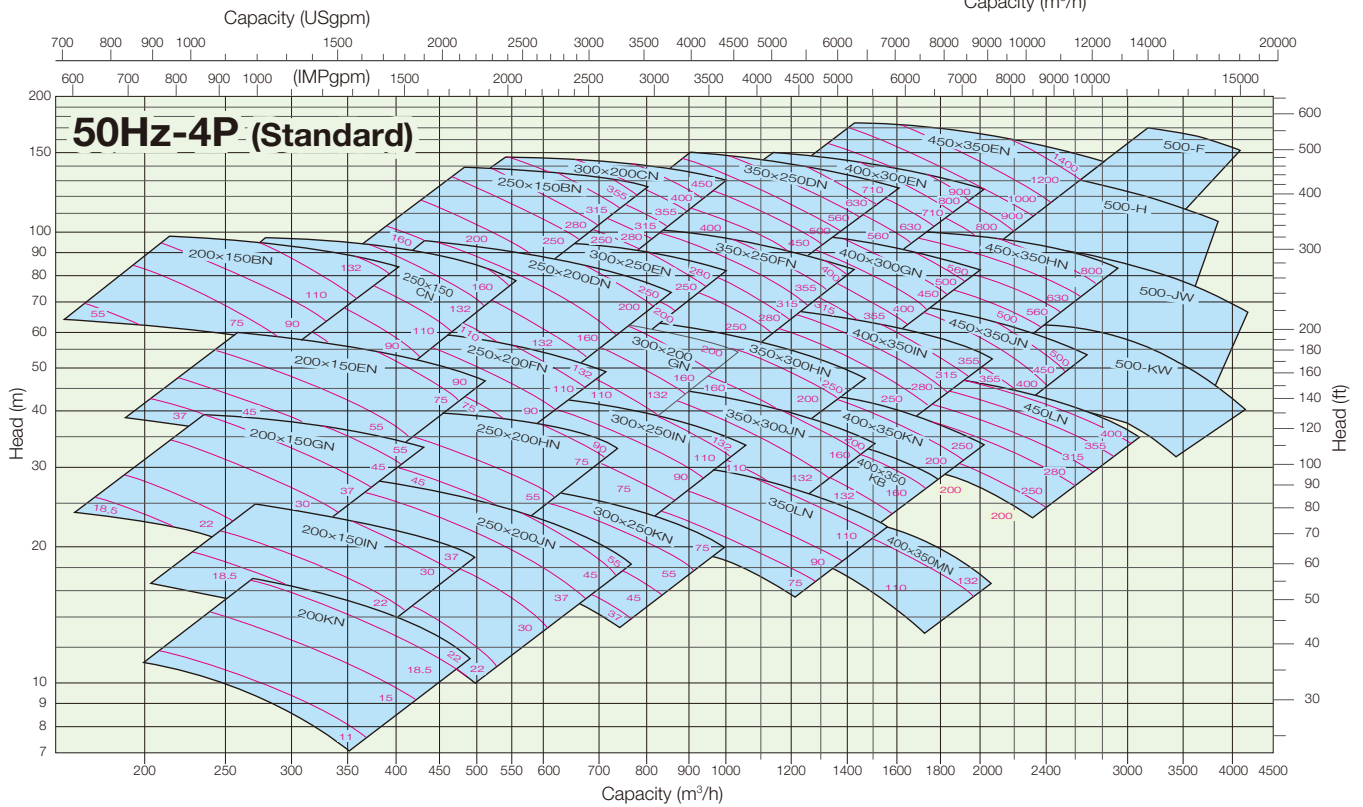
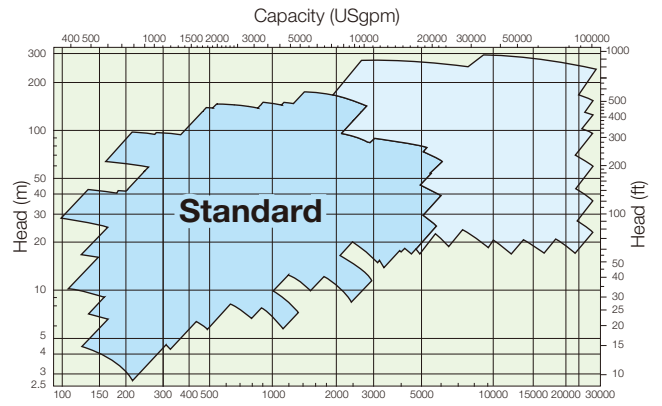
Designed by CAE analysis resulting in higher efficiency, noise and vibration free operation, over a wider flow range.

## Wear Rings

Casing wear rings are fitted as standard and replaceable for longer life span. Optional Impeller Wear rings are available upon request.

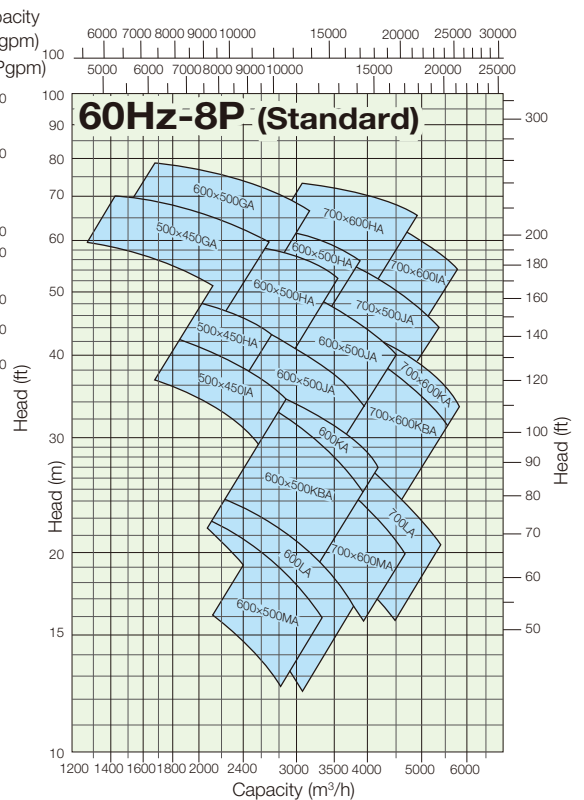
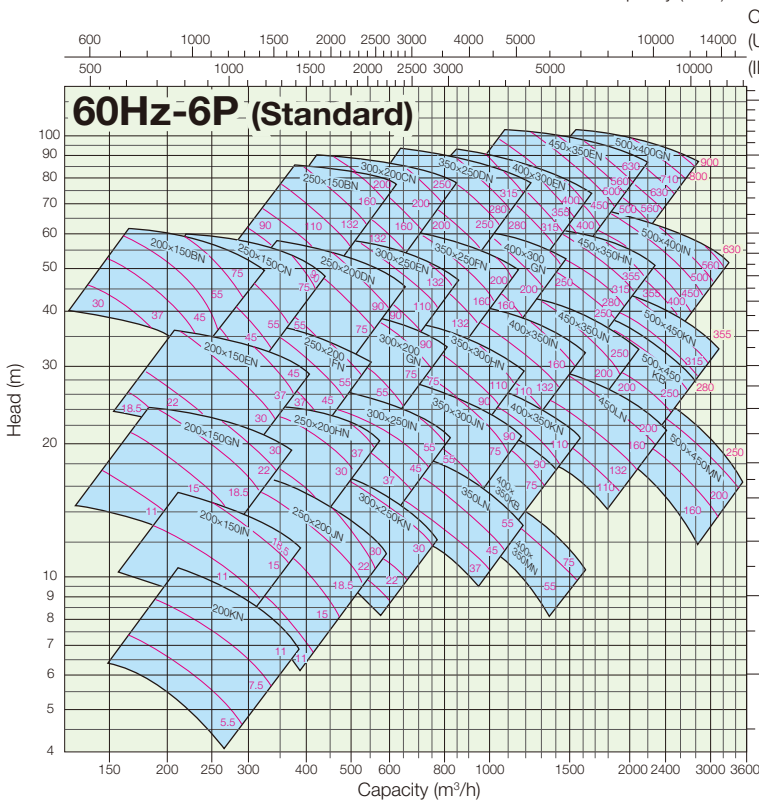
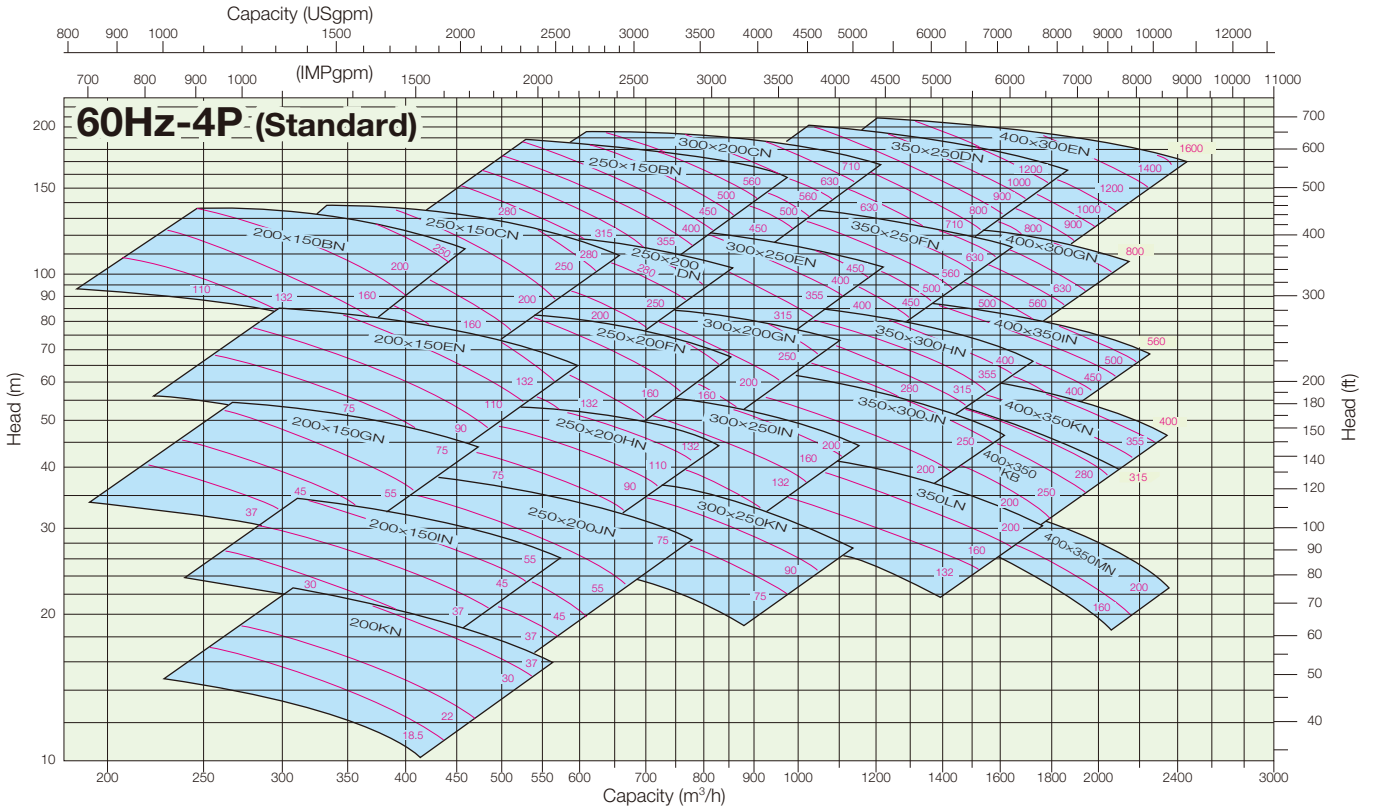
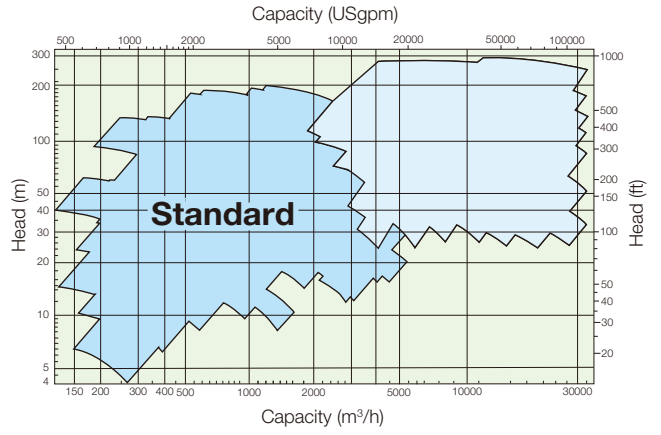
# Performance Range

- Black Line - Pump Head
- Pink Line - Motor Rating in kW



# Performance Range

- Black Line - Pump Head
- Pink Line - Motor Rating in kW



# Torishima Pump Global Network



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