GENERAL
PRODUCT CATALOG
OPERATING PARAMETERS
- Capacities up to 25000 (m³/h)
- Head up to 600 (ft) (1828 m)
- Power through 2,237 (kW) (3,000 hp)
- Frequency 50/60 Hz
- Temperatures to 200 °C (400 °F)

DESIGN FEATURES
- Low NPSH first stage construction
- Thrust balanced impellers available
- Packing or mechanical seal
- Independent axial-thrust bearing assembly

DISCHARGE CONFIGURATIONS
- Multiple discharge configurations and sizes.

SERVICES
- Primary Water Supply – Fresh water or Sea water
- Mining Processes - Solvent Extraction/ Electro-Winning (SX/EW), Dewatering, Tailings & Post Processed Solutions
- Oil & Gas Production - Onshore, Offshore and Pipeline
- Pulp and Paper
- Municipal Water & Wastewater
- Agriculture - Irrigation.

MATERIALS
- Bronze, Cast Iron, Carbon Steels
- Stainless Steels - 316, 317 SS
- Duplex - 2205
- Super Duplex - 2507
- Super Austenitic - 254 SMO, 654 SMO
- Nickel-Based Super Alloys - Hastelloy
- Super Austenitic - 254 SMO, 654 SMO
- Super Duplex - 2507
- Duplex - 2205
- Stainless Steels - 316, 317 SS
- Bronze, Cast Iron, Carbon Steels

OPEN SHAFT (OS)
- Driver Stand
- Driver: Mechanical cartridge seal or stuffing box arrangements with packing or O-rings
- Shaft seals and parts maintenance

ENCLOSED SHAFT (ES)
- Driver: Vertical Solid Shaft (VSS)
- Flywheel in solid ground driven
- Specified to customer needs and location data

CAN TYPE (VC)
- Driver: Vertical Solid Shaft (VSS)
- Fixed or variable speed drives
- Specified to customer needs and location data
**MATERIALS**
- Nickel-Based Super Alloys - Hastelloy.
- Super Austenitic - 254 SMO, 654 SMO
- Super Duplex - 2507
- Duplex - 2205
- Stainless Steels - 316, 317 SS
- Bronze, Cast Iron, Carbon Steels

**DESIGN FEATURES**
- Modular design for quick on site setup
- Eliminates chances of catastrophic failures from a chamber leak
- Foam filled chambers for long term applications
- High Density Polyethylene (HDPE) non-metallic fabricated

**SERVICES**
- Primary Water Supply - Fresh water or Sea water
- Mining Processes - Solvent Extraction/Electro-Winning (SX/EW), Dewatering, Tailings & Post Processed Solutions
- Oil & Gas Production – Onshore, Offshore and Pipeline

**DIFFERENT BARGE CONFIGURATIONS**
- Multiple barge configurations and sizes.

**OPERATING PARAMETERS**
- Capacities up to 2500 (m³/h) (5000 gpm)
- Head up to 1000 (m) (3280 Feet)
- Power through 750 (kW) (1000 hp)
- Frequency 50/60 Hz
- Temperatures up to 150°C (300 °F)
- Head up to 1000 (m) (3280 Feet)
- Power through 750 (kW) (1000 hp)
- Frequency 50/60 Hz
- Temperatures up to 150°C (300 °F)

**OPERATING PARAMETERS**
- Capacities up to 1500 (m³/h) (5000 gpm)
- Head up to 1000 (m) (3280 Feet)
- Power through 750 (kW) (1000 hp)
- Frequency 50/60 Hz
- Temperatures up to 150°C (300 °F)

**FLANGE ORIENTATION**
- Different suction and discharge flange orientation.

**SERVICES**
- Primary Water Supply – Fresh water or Sea water
- Mining Processes - Solvent Extraction/Electro-Winning (SX/EW), Dewatering, Tailings & Post Processed Solutions
- Oil & Gas Production – Onshore, Offshore and Pipeline
- Pulp and Paper
- Municipal Water & Wastewater
- Agriculture - Irrigation.

**MATERIALS**
- Bronze, Cast Iron, Carbon Steels
- Stainless Steels - 316, 317 SS
- Duplex - 2205
- Super Duplex - 2507
- Super Austenitic - 254 SMO, 654 SMO
- Nickel-Based Super Alloys - Hastelloy.
**OPERATING PARAMETERS**

- Capacities up to 2400 (m³/h) (11000 gpm)
- Head up to 1200 (m) (3937 Feet)
- Power through 2237 (kW) (3000 hp)
- Frequency 50/60 Hz
- Temperatures to 300°F (150°C).

**DESIGN FEATURES**

- Axially split casing for ease of maintenance
- Heavy duty single row balling
- Opposed impeller arrangement for thrust balancing
- Different suction and discharge

**SERVICES**

- Primary Water Supply – Fresh water or Sea water
- Mining Processes - Solvent Extraction/ Electro-Winning (SX/EW), Dewatering, Tailings & Post Processed Solutions
- Oil & Gas Production – Onshore, Offshore and Pipeline.

**IMPELLER ARRANGEMENT**

- Double suction + 2 impellers in parallel
- Double suction + 4 back-to-back impellers.

**MATERIALS**

- Bronze, Cast Iron, Carbon Steels
- Stainless Steels - 316, 317 SS
- Duplex - 2205
- Super Duplex - 2507
- Super Austenitic - 254 SMO, 654 SMO
- Nickel-Based Super Alloys - Hastality

**OPERATING PARAMETERS**

- Capacities up to 25000 (m³/h) (10000 gpm)
- Head up to 280 (m) (850 Feet)
- Power through 1000 hp (750 kW)
- Frequency 50/60 Hz
- Power through 2237 (kW) (3000 hp)
- Pressure up to 1,180 psi (8,140 kPa)
- Frequency 50/60 Hz
- Temperatures to 300°F (150°C)
- Discharge sizes from 3" to 14".

**DESIGN FEATURES**

- Axially split casing for ease of maintenance
- Heavy duty single row balling
- Opposed impeller arrangement for thrust balancing

**SERVICES**

- Primary Water Supply – Fresh water or Sea water
- Mining Processes - Solvent Extraction/ Electro-Winning (SX/EW), Dewatering, Tailings & Post Processed Solutions
- Oil & Gas Production – Onshore, Offshore and Pipeline.

**PUMP ORIENTATION**

- Horizontal
- Vertical

**MATERIALS**

- Nickel-Based Super Alloys - Hastelloy
- Super Austenitic - 254 SMO, 654 SMO
- Super Duplex - 2507
- Duplex - 2205
- Stainless Steels - 316, 317 SS
- Bronze, Cast Iron, Carbon Steels

**RENEWABLE SEAL AND IMPeller WEAR RINGS**

- Eliminates casing wear
- Easy maintenance
- Proper dimension clearances for maximum efficiency operation.
OPERATING PARAMETERS
• Capacities up to 4000 (m³/h) (19000 gpm)
• Head up to 350 (m) (1000 Feet)
• Power through 1000 hp (750 kW)
• Frequency 50/60 Hz
• Temperatures to 300°F (150°C)
• Discharge sizes from 3” to 12”

DESIGN FEATURES
• High-quality investment cast impellers and volute
• Special material selection for standard or abrasive/corrosive service
• Mechanical sealing

SERVICES
• Primary Water Supply – Fresh water or Sea water
• Mining Processes - Solvent Extraction/ Electro-Winning (SX/EW), Dewatering, Tailings & Fluid Processed Solutions
• Oil & Gas Production - Onshore, Offshore
• Pulp and Paper
• Municipal Water & Wastewater
• Agriculture - Irrigation.

MATERIALS
• Bronze, Cast Iron, Carbon Steels
• Stainless Steels - 316, 317 SS
• Duplex - 2205
• Super Duplex - 2507
• Super Austenitic - 254 SMO, 654 SMO
• Nickel-Based Super Alloys - Hastelloy

REPAIR & OVERHAUL
Our ISO 9001:2008 Certified Pump Repair Center provides rapid turnaround, high-quality repair services.

ORIGINAL SPARE PARTS
High-integrity and correctly fitted original or upgrades spare parts with worldwide guaranteed supply for all our models.
• Restores high operational efficiency
• Optimizes energy consumption
• Assures compatibility
• Minimizes unexpected failures
• Fast & reliability

Capabilities
• Shafts
• Diffusers
• Impellers
• Bowls / Volutes
• Discharge heads

Typical Process:
• Overall condition
• Detailed examination of all critical parts
• Estimate of time and cost of work needed
• Re-machining
• Hydrostatic tests
• ISO 1940 Dynamic balancing
• ISO 9906 performance tests

REPAIR & OVERHAUL
Our ISO 9001:2008 Certified Pump Repair Center provides rapid turnaround, high-quality repair services.

ORIGINAL SPARE PARTS
High-integrity and correctly fitted original or upgrades spare parts with worldwide guaranteed supply for all our models.
• Restores high operational efficiency
• Optimizes energy consumption
• Assures compatibility
• Minimizes unexpected failures
• Fast & reliability

Capabilities
• Shafts
• Diffusers
• Impellers
• Bowls / Volutes
• Discharge heads

Typical Process:
• Overall condition
• Detailed examination of all critical parts
• Estimate of time and cost of work needed
• Re-machining
• Hydrostatic tests
• ISO 1940 Dynamic balancing
• ISO 9906 performance tests

ORIGINAL SPARE PARTS
High-integrity and correctly fitted original or upgrades spare parts with worldwide guaranteed supply for all our models.
• Restores high operational efficiency
• Optimizes energy consumption
• Assures compatibility
• Minimizes unexpected failures
• Fast & reliability

Capabilities
• Shafts
• Diffusers
• Impellers
• Bowls / Volutes
• Discharge heads

Typical Process:
• Overall condition
• Detailed examination of all critical parts
• Estimate of time and cost of work needed
• Re-machining
• Hydrostatic tests
• ISO 1940 Dynamic balancing
• ISO 9906 performance tests

ORIGINAL SPARE PARTS
High-integrity and correctly fitted original or upgrades spare parts with worldwide guaranteed supply for all our models.
• Restores high operational efficiency
• Optimizes energy consumption
• Assures compatibility
• Minimizes unexpected failures
• Fast & reliability

Capabilities
• Shafts
• Diffusers
• Impellers
• Bowls / Volutes
• Discharge heads

Typical Process:
• Overall condition
• Detailed examination of all critical parts
• Estimate of time and cost of work needed
• Re-machining
• Hydrostatic tests
• ISO 1940 Dynamic balancing
• ISO 9906 performance tests
Energy Efficient Pumping Solutions

90% of a pump's Life Cycle Cost (LCC) represents energy consumption and maintenance, relegating to the background initial purchase cost to a second plane.

Implementing the award winning recommendations of Neptuno Energy™ you can achieve reductions in energy consumption of up to 30% and the following benefits:
- Reduce maintenance cost
- Increase productivity
- Reduce production cost
- Improve utilization of installed capacity
- Improve reliability
- Improve process safety.

For more information about our award winning energy efficient pumping solutions, energy saving services and CO₂ emission reduction, please visit us at:

www.neptunoenergy.com

90% Operation and Maintenance

By using proven techniques for assessment of his pumping system, Neptuno Energy™ offers a complete solution for energy savings. Efficiency improvements as minimum as 1% can lead to significant results in terms of cost savings and reduced CO₂ emissions.

For more information about our award winning energy efficient pumping solutions, energy saving services and CO₂ emission reduction, please visit us at:

www.neptunoenergy.com