

**ENEQ CONSULT LTD**

**Engineering, Equipment, and Consulting for Demanding Industries (Pump Catalogue)**



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# Company Overview



With **nine years of solid performance** and a project portfolio exceeding **€20 million**, ENEQ Consult Ltd. is a reliable partner for high-quality mechanical equipment.

**Core Sectors:** We specialize in solutions for the nuclear, conventional power, oil & gas, and petrochemical industries.

**Complete Project Lifecycle:** Our expertise covers everything from equipment supply and turnkey delivery to critical engineering analyses (FEA & CFD) and comprehensive after-sales support.

**Global Partnerships:** Through exclusive partnerships with 15 global manufacturers, we ensure compliance with the highest international standards, including ASME, EN, N Stamp, DIN, and ISO.



# Pump Portfolio

ENEQ Consult supplies a wide range of pumping equipment used in the nuclear and conventional power industries, engineered for reliability in the most demanding environments. In addition to the specialized industrial pumps in this portfolio, a comprehensive range of general service pumps is also available.

## Our Industrial Pump Range Includes:

- Axial Flow (Propeller) Pumps
- Split-Case (Centrifugal) Pumps
- Horizontal Centrifugal Pumps
- Vertical Centrifugal Pumps
- Condensate (Centrifugal) Pumps
- Multistage (Centrifugal) Pumps
- Oil & Gas (API/Process) Pumps
- Specialty (Industrial) Pumps

# Axial Flow (Propeller) Pumps

- **Description:** Vertical, axial-flow pumps designed to move very large quantities of water at low heads, making them an economical choice for large-scale water transfer.
- **Key Series:** AVZ, AVZR
- **Applications:**
  - High-volume irrigation and drainage
  - Industrial water systems
- **Key Features:**
  - Vertical propeller design with a simple and solid construction
  - Rotor blades can be adjusted to match the required working point
  - AVZR models feature blades that can be deflected during operation for maximum efficiency
- **Performance Range:**
  - **Capacity:** 90 to 10,000 l/s
  - **Head:** 0.5 to 18 m



# Split-Case (Centrifugal) Pumps

- **Description:** High-capacity single or two-stage pumps with an axially split casing that allows for easy maintenance of the internal components without disturbing the piping. The double-suction impeller design ensures high flow rates while naturally balancing axial forces.
- **Key Series:** DH, DHv, Д, ДВ, С Series
- **Applications:**
  - Power plants and waterworks
  - Municipal water supply, irrigation, and drainage
  - Hot water circulation in district heating systems
- **Key Features:**
  - Single or two-stage, double-suction, axially split casing
  - DHv model is adapted for higher temperatures (up to 150°C)
  - Highly serviceable and tested design for a long life
- **Performance Range:**
  - **Capacity:** 500 to 15,000 m<sup>3</sup>/h
  - **Head:** 10 to ~180 m
  - **Temperature:** Up to 150°C



# Horizontal Centrifugal Pumps

- **Description:** A versatile range of single-stage pumps, often in end-suction or "back pull-out" configurations (per EN 22858). These pumps are used for general service and demanding industrial processes.
- **Key Series:** IN, KK, NK, NN, K, KШ, XБ, XБE-M
- **Applications:**
  - General water service, industry, and irrigation
  - Hot and cooling water circulation
  - Chemical plants, refineries, and natural gas cleaning plants
- **Key Features:**
  - Single-stage, low-pressure units (KK, NK)
  - "Back pull-out" design for easy maintenance (IN, NN)
  - Between-bearings, barrel-insert design for specialized processes (XБ)
- **Performance Range:**
  - **Capacity:** Up to 1050 m<sup>3</sup>/h
  - **Head:** Up to 650 m
  - **Temperature:** From -40°C to +350°C



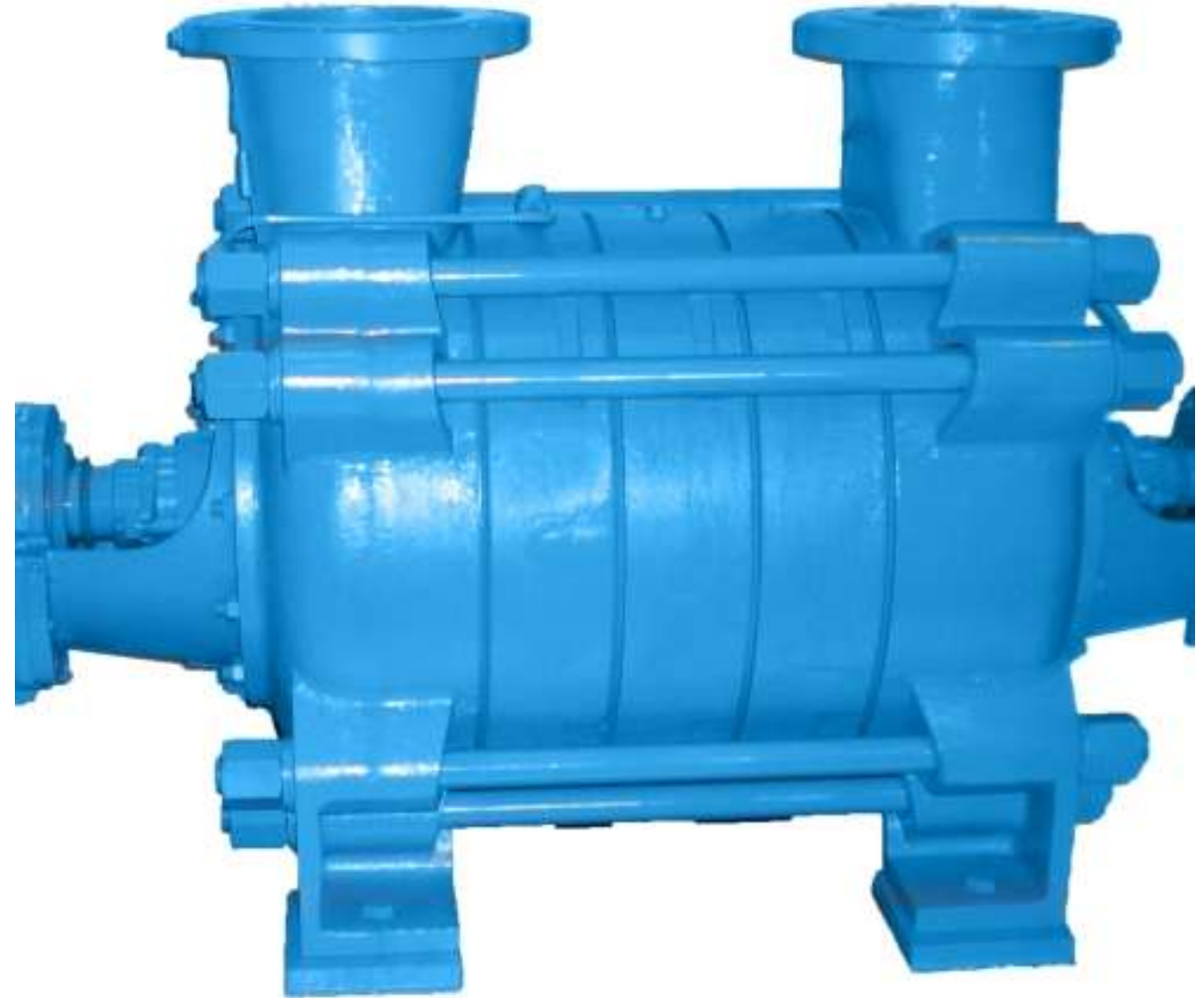
# Vertical Centrifugal Pumps

- **Description:** Pumps with a vertical shaft orientation, including can-type, wet-pit, and submerged cantilever designs. This configuration saves space and is ideal for booster applications or installation in sumps and tanks.
- **Key Series:** НПВ-М, НПВ, НОУ, МВ, МКВ, 7НМ-32, 3НМ-32, МКГ
- **Applications:**
  - Booster pumps for main pipelines and oil transfer
  - Pumping out crude oil and product leaks from sumps
  - Turbine oil supply and control systems
- **Key Features:**
  - Vertically suspended, single or multistage, can-type (НПВ-М)
  - Wet-pit, multistage segmental design (НОУ)
  - Submerged, cantilever, 1 or 3-stage design (МВ, МКВ)
- **Performance Range:**
  - **Capacity:** 10 to 5000 m<sup>3</sup>/h
  - **Head:** 20 to 900 m



# Condensate (Centrifugal) Pumps

- Description:** A comprehensive range of horizontal and vertical multistage pumps specifically engineered for the extraction and transfer of condensate in the demanding environments of power generation steam cycles.
- Key Series:** KVL, KVLv, KCB, Kc, Kcr, KCD, KO, KOШ, KCBA
- Applications:**
  - Condensate extraction from condensers in power stations
  - Condensate transfer and pumping in power and heating plants
- Key Features:**
  - Vertical, multistage, can-type designs for low NPSH conditions (KVL, KCBA)
  - Horizontal, segmental, between-bearings designs (Kc, Kcr)
  - Horizontal, end-suction with overhung impellers (KO, KOШ)
- Performance Range:**
  - Capacity:** From 2.5 l/s to 1600 m<sup>3</sup>/h
  - Head:** 8 to 260 m
  - Temperature:** Up to 130°C



# Multistage (Centrifugal) Pumps



- **Description:** High-pressure pumps with multiple impellers in series, available in horizontal and vertical configurations with sectional, ring-section, or barrel-type casings. They are engineered for applications requiring significant head.
- **Key Series:** VS, KV, KVL, VSN, ПЭ, ЦНСг, ЦНС, ЦНСз, НР, ГР, ЦНСп, ЦНС(н), ЦН, 14М, ПД
- **Applications:**
  - Boiler feed for thermal power stations
  - High-pressure water injection for oil recovery
  - Crude oil and product pipeline transport
  - General industrial and municipal high-pressure water supply
- **Key Features:**
  - High-pressure sectional design (VS, KV, VSN)
  - Horizontal, segmental, or barrel type for boiler feed (ПЭ)
  - Horizontal, segmental with balance disc (ЦНС) or back-to-back impellers (ЦНСп) for thrust management
- **Performance Range:**
  - **Capacity:** From 0.5 l/s to 1660 m<sup>3</sup>/h
  - **Head:** 8 to 3670 m
  - **Temperature:** Up to 180°C



# Oil & Gas (API/Process) Pumps

- **Description:** Heavy-duty pumps built to meet the rigorous requirements of the oil and gas industry, including API 610 standards (e.g., BB3, BB5). This category includes multistage, double-casing (barrel), and axially split designs for high-pressure and high-temperature services.
- **Key Series:** RPP, AMG (BB3), HM, НГПН-М, НЦН-Е, 20НДСН-М, НГ, НМФ, ЦНСДП (BB5), TG, TL (BB5)
- **Applications:**
  - Refineries and petrochemical plants
  - Waterflooding for enhanced oil recovery
  - Crude oil and refined product pipeline transport
  - High-pressure gas processing
  - Pipeline booster pumps
- **Key Features:**
  - Heavy-duty horizontal process pump (API 610) - RPP
  - Multistage, axially split casing (API 610 BB3) - AMG
  - Double-casing, multistage barrel (API 610 BB5) - ЦНСДП, TG, TL
- **Performance Range:**
  - **Capacity:** 1 to 12,500 m<sup>3</sup>/h
  - **Head:** 4 to 2430 m
  - **Temperature:** From -70°C to +400°C



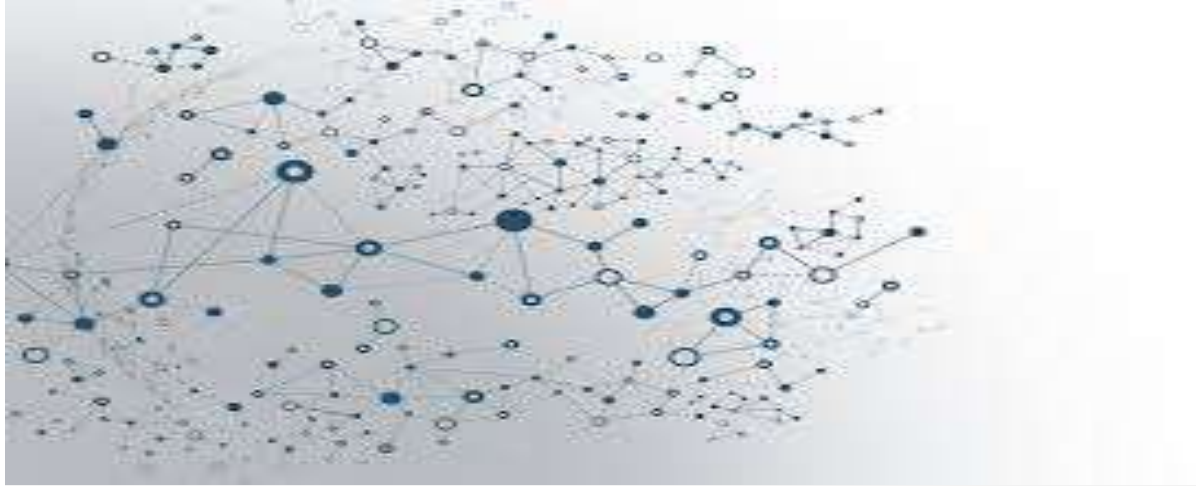
# Specialty (Industrial) Pumps



- **Description:** Pumps engineered for unique and difficult industrial processes, such as handling liquids with a high content of solids, fibers, and other impurities.
- **Key Series:** KPP, VKPP, HMB, Desum
- **Applications:**
  - Media with high solids/fiber content in industries like pulp and paper, sugar factories, and alumina plants
  - Wastewater and other heavily contaminated liquids
  - Circulation in Flue Gas Desulphurisation (FGD) absorbers
  - Crude oil and product pipeline transport (HMB Series)
- **Key Features:**
  - Channel impeller design for passing large solids and fibrous materials (KPP, VKPP)
  - Available in horizontal (KPP) and vertical (VKPP) configurations
  - Single-stage, double-suction, axially split casing for high-flow FGD circulation (Desum)
- **Performance Range:**
  - **Capacity:** 3 to 9700 m<sup>3</sup>/h
  - **Head:** 6 to 330 m
  - **Temperature:** Up to 200°C



# Codes and Standards



The general design of the equipment and components is in conformity with ASME, EN and DIN, whereas our company can also offer designs in accordance with API. Equipment is manufactured using materials under EN, ASME, ANSI, ASTM standards. There is also an option for special execution of dimensions and materials as per the individual requirements of the customer.

Individual approach towards every single partner in relation to the products that we offer, in view of highly-technological quality of the equipment, which is in conformity with international and national standards

**Codes and Standards  
International**



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