POPULATIONS



In the demanding sector of **Power Generation** tomers on the practical implementation of our Industry, DP Pumps' success is founded on ex- design, using their valuable feedback to optipertise. Our know-how and competitiveness is mize our products. based on many years of experience in the man-We offer total support to the customer before ufacturing of pumps for Projects. DP Pumps ofduring and after project completion regardless fers products with a deep breadth of expertise how big or small the project is, DP Pumps alin the successful application of pre-engineered, ways provides all necessary documentation and engineered and special purpose pumps and performs all required tests starting from raw systems. material, performing NDT's to pumps critical For most types of power plants — fossil fired, parts, contacting tests and inspections to semicombined cycle, Hydro-Electric, large and small finished parts and performing several tests to industrial power plants, we offer an extensive the final product such us:

range of innovative products and services. DP Pumps delivers, condensate extraction, cooling water and auxiliary pumps. Reliability of each pumping solution depends on the proper product design, the right selection, the manufacturing and delivery process, aftermarket service and all associated support. DP Pumps for the power generation are well known over the years for their project dedicated design providing customized products fully covering each project special requirement. The applied manufacturing technology together with strict quality control procedures assure high levels of efficiency, performance and reliability over a full range of process conditions.

Research and development have always been top priority at DP Pumps. Basic research focuses on hydraulics optimization, cavitation, erosion, corrosion and mechanical design to assure best performance and vibration free operation. Our engineers always collaborating closely with cus-

PUMPING SOLUTIONS

N2**05**

- Hydrostatic Testing.
- Performance Test acc. ISO 9906 or HI procedures.
- NPSHr Testing acc. ISO 9906 or HI procedures, available even for vertical suspended pumps.
- Minimum Submergence test.
- Vibration Measurements.
- Noise Measurements.

DP Pumps engineers and technicians can offer installation and commissioning solutions that assure proper product installation and significantly reduce required time for project completion.

Our goal is to be your business partner who delivers customized pumping solutions that improve your operations. Our measure of success is the loyalty of our customers year after year, decade after decade.

Combined Cycle

Combined Cycle Gas Turbine (CCGT) power generation is the cleanest and most efficient method of fossil fuel power generation. A CCGT power station combines the technologies of gas turbines and steam turbines to produce electricity more efficiently than can be done using either of these technologies separately.

Cooling Water Pumps

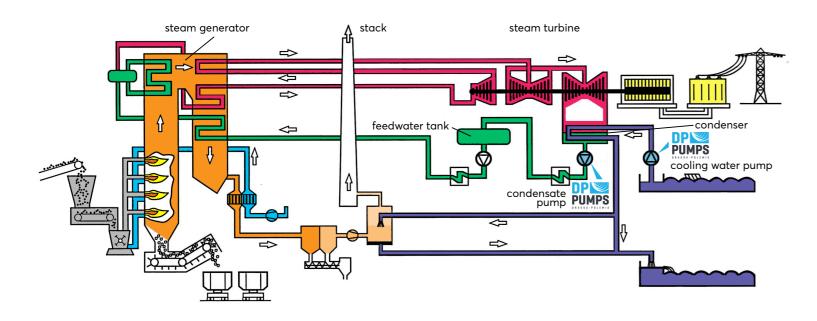
DP Pumps offers both horizontal and vertical pumps for condenser cooling water application. These are available in a wide range of hydraulic and material configurations. Nonpullout or pullout construction is available on vertical models.

Condensate Water Pumps

Vertically suspended, Mixed Flow design impellers for high capacities or Radial Flow impellers for High Heads, canned pumps in many cases with special first stage for very low NPSHr provide reliable duty in these difficult services. Horizontal pump designs are also available.

Auxiliary Pumps

DP Pumps offers a wide range of horizontal and vertical pumps, including ISO and EN designs for all auxiliary services within the power plant. These are available in a wide range of hydrauic and material configurations.



Fossil Fuel

DP Pumps provides a great deal of solutions in supplying pumps and pumping systems for fossil fuel power generating plants. In the demanding process applications of a fossil fuel plant DP Pumps offers the most comprehensive package of pump products, technical support and service for most of the process stages among with a lot of auxiliaries services.

Cooling Water Pumps

DP Pumps offers both vertical and horizontal circulating pumps in a wide range of configurations, hydraulics and materials to meet any application requirement. Pullout or non-pullout construction is available on vertical pump models. Fabricated Metallic volute pumps are also available for these services.

Condensate Pumps

DP Pumps offers a wide range of solutions for this critical service. Pumps are designed including Both single and double-suction, first-stage, depending on the application requirement. Vertically suspended pump designs along with Horizontal designs (where applicable) are available.

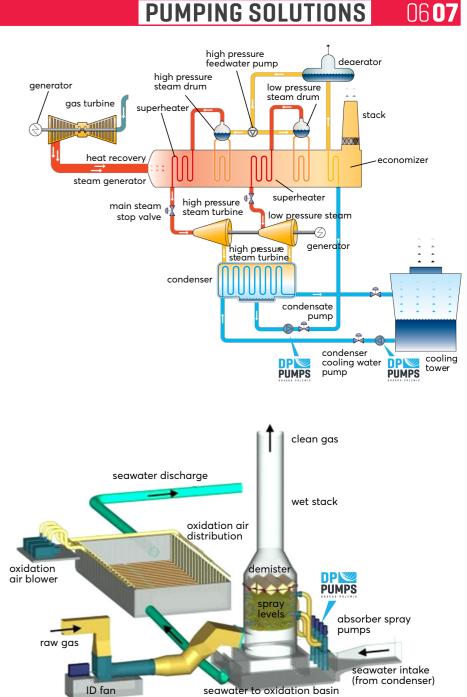
Flue Gas Desulfurization **Process Pumps**

DP Pumps designs and manufactures pumps for a lot of FGD system services. Some of these services include, absorber Spray pumps, absorber recirculation pumps.

Auxiliary Pumps

DP Pumps offers an extensive line of pumps, including ISO and EN designs. They are available in a wide variety of materials and in many design and hydraulic configurations vertical or horizontal to meet all plant pumping needs.

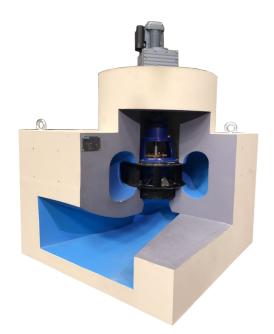






POWER GENERATION INDUSTRY







PRODUCT RANGE Circulating Pumps (Cooling)

DP Pumps provides a great deal of solutions in supplying pumps and pumping systems for fossil fuel power generating plants. In the demanding process applications of a fossil fuel plant DP Pumps offers the most comprehensive package of pump products, technical support and service for most of the process stages among with a lot of auxiliary services.

Concrete Volute Pumps (Type CVP-NA)

Pull out assembly. Construction simplicity and maintenance facility.

Concrete volute casing and suction bell. Reduced vibrations, increased pump life.

Low total life cycle cost. Reduced structure cost, low maintenance cost, low operation cost.

High flow rate. Suitable for flow rates that the conventional pumps could not reach.

Low speed. Slower running speed, shorter submerged setting depth, long bearings life.

Prefabricated parts. Optimal hydraulic shape, finest surface quality, simplicity to construction. Steel liner available.

Corrosion and erosion resistance. Longer operating life.

Operating Parameters

- Flows to 105000 m3/h
- Heads to 35 m
- Speeds from 100 to 300 rpm
- Temperatures to 50 °C

Vertical, Mixed Flow Wet-Pit Pumps (type MV)

Vertical Mixed flow pumps (type MV), custom designed to perfectly much project needs. Detailed engineered for best performance and vibration free operation. Designed for extended operation in condenser cooling and circulating water service. Available in pullout and nonpullout designs

Operating Parameters

- Flows to 50,000 m3/h
- Heads to 200 m
- Temperatures to 65°C

PRODUCT RANGE

Vertical, Axial Flow Wet-Pit Pumps (type AV)

Vertical Axial flow pumps (type AV), specifically designed for high capacities and low heads pullout and non-pullout designs

Operating Parameters

- Flows to 50,000 m3/h
- O Heads to 10 m
- Temperatures to 65°C
- Pressures to 6 bar

Horizontal Axially Split Casing Pumps (Type ASN / ASN-E)

Axially split, single or double volute, double-suction pumps (type ASN / ASN-E). Robust construction specifically designed for extended cooling water and circulating water services

Operating Parameters

- Flows to 15,000 m3/h
- Heads to 200 m
- Temperatures to 140°C
- Pressures to 25 bar

Fabricated Metallic Volute Pumps (Type NA/FV)

Pre-fabricated Metallic sections form intake and casing structure of the pump.

Pump types

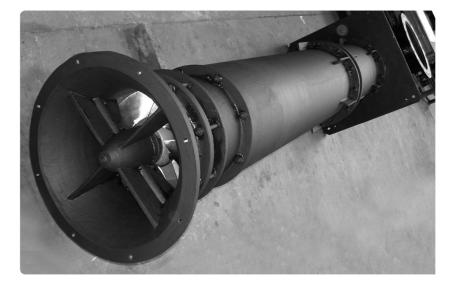
- Mixed flow, open impeller
- Mixed flow, closed impeller
- Radial flow, closed impeller

Operating Parameters

- Flows to 50,000 m3/h
- Heads to 100 m

PUMPING SOLUTIONS

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POWER GENERATION INDUSTRY







PRODUCT RANGE

Condensate Extraction Pumps

Vertical, Multistage, Canned Pumps (Type CP)

Multistage design with mixed flow impellers for higher capacities or radial flow impellers for high head requirements. Heavy-duty pumps with single- or double-suction first stage to meet NPSH(a) requirements. Designed for continuous and extended operation.

Operating Parameters

- Flows to 10,000 m3/h
- Heads to 400 m
- Temperatures to 140°C

Flue Gas Desulfurization Pumps

Absorber Recycle Pumps (Type NAx)

Horizontal Radially split pumps (Type NAx) with back pullout design for recirculation services

Operating Parameters

- Flows to 15,000 m3/h
- Heads to 40 m
- Sizes 250 mm to 1000 mm

Absorber Spray Pumps (Type MV)

Vertical Mixed flow pumps (type MV), custom designed to perfectly much project needs. Detailed engineered for best performance and vibration free operation. Specifically designed for extended operation in absorber spray water service; pullout and non-pullout designs

Operating Parameters

- Flows to 50,000 m3/h
- Heads to 200 m
- Temperatures to 65°C

PRODUCT RANGE

Auxiliary Services Pumps

Horizontal Pumps acc. EN standards and Process type ISO Standard Pumps (Type LDP, MDP, NA)

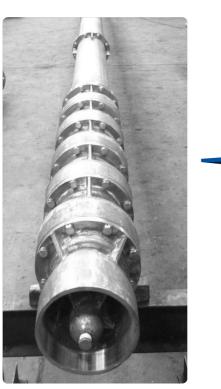
- Flows to 2500 m3/h
- Heads to 150 m
- Temperatures to 140°C

Vertical Sump Pumps (Type LDP-VW, SP-VW)

- Flows to 2000 m3/h
- Heads to 100 m
- Temperatures to 100°C
- Seal-less design

Desalination Intake Pumps (Type DWP, MV, AV)

- Flows to 10000 m3/h
- Heads to 100 m
- Temperatures to 50°C





PUMPING SOLUTIONS

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PRODUCT RANGE

Booster Sets

- Flows to 1000 m3/h (per pump)
- Heads to 160 m
- Temperatures to 140°C
- Complete Skid Mounted Set Including:
- Pumps with Motors
- Hydraulic Equipment
- Control Panel
- Control Sensors
- Pressure Vessel

Fire Fighting Sets

- Flows to 1500 m3/h (per pump)
- Heads to 160 m
- Complete Skid Mounted Set Including:
- Pumps with Motors
- Hydraulic Equipment
- Control Panel
- Control Sensors
- Pressure Vessel
- Flow Meter (optional)
- Test Line (optional)

Diesel Fuel Supply / Feeding Skids

Skid-Mounted system, Engineer - to - Order (ETO)

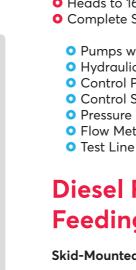
Designed and manufactured based on very specific customer requirements

Applications:

- GT Fuel Feeding
- Diesel Oil Transfer

System Components:

- Pumps
- Motors
- Control Panel
- Fuel Dual Filter (Filtration de- gree as per application specs)
- Pressure & Heat Transmiters
- Valves & Hydraulic Equipment
- Flow Meter (Custody Transfer available)
- * All equipment is ATEX certified







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www.dppumps.global