

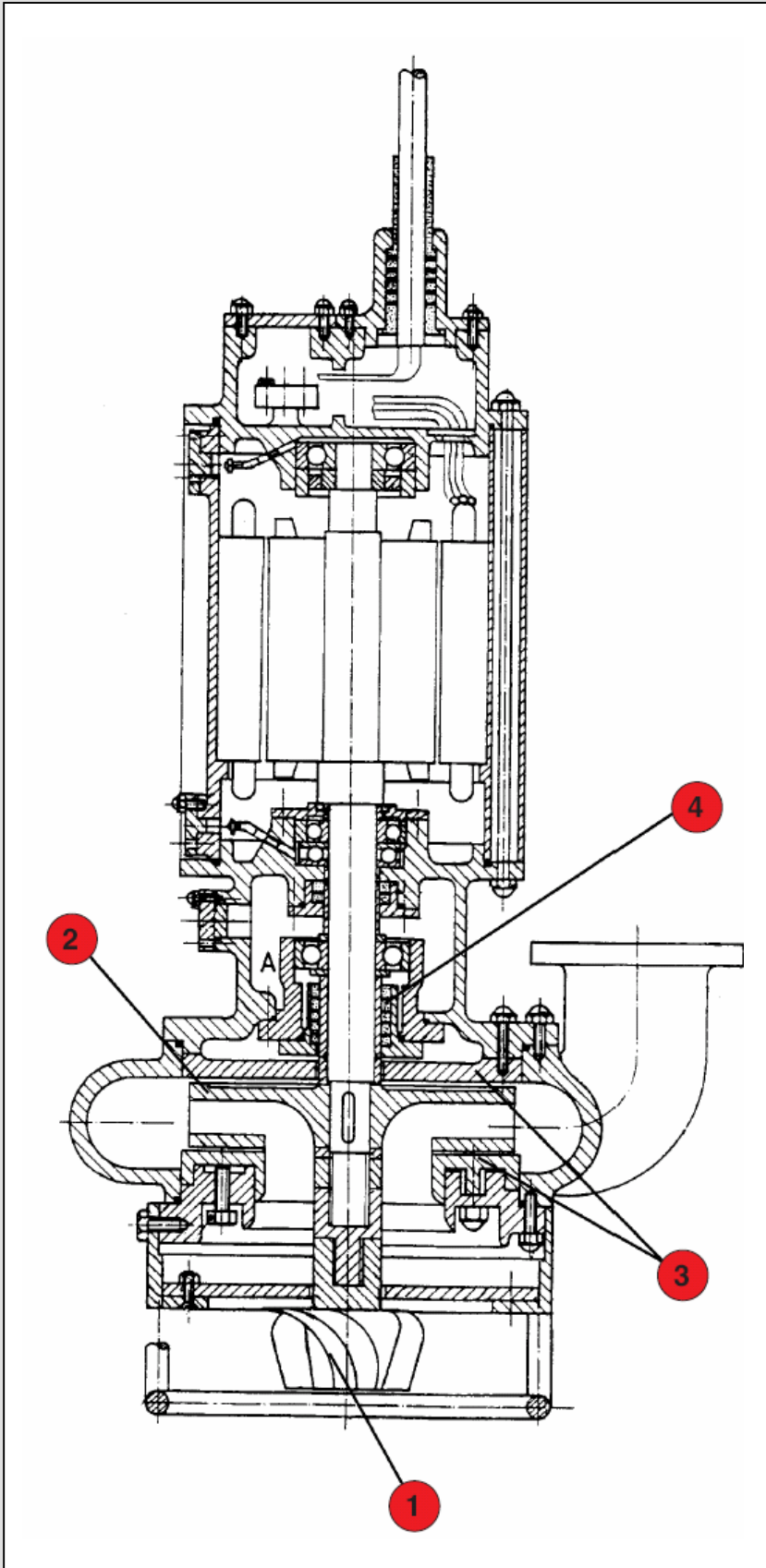


# Toyo

**Heavy duty slurry pumps**

The TOYO full range of more than 125 centrifugal pumps proposes the most suitable solution to pumping of solids that have settled out of fluid suspension.

Well known worldwide for more than 60 years, the TOYO pumps are famous for their reliability in many fields of applications, particularly in pumping very heavy and abrasive slurries, especially when very tough conditions are met.



## ① The agitator

The patented built-in agitator allows the stirring up in the liquid of all kinds of solids, of different grain sizes (e.g. mud, gravel, sand, scales, tars, etc.) and the continuous pumping of slurries with concentration in weight of up to 70%.

## ② The impeller

The semi-open or closed impeller perfectly matches solids handling requests. The impeller is made of high chrome casting as well as the wear plates and the agitator. The heavy duty design of the pump, available in different metallurgies, associated with the low rotation speed of the high torque powerful motor guarantee efficiency and exceptional lifespan.

## ③ The wear plates

All the pumps have at least one adjustable wear plate. This offers long lasting high level of performance, even in the case of wear of the impeller and wear plates. The design of the pump makes service and maintenance easy.

## ④ The seals

Between the impeller and the motor, the assembly of special seals, functioning in an oil bath, prevent from the possible entrance of liquids and solids into the upper part of the pump. The strong and short shafts as well as a series of carefully selected bearings allow the pumps to work in the hardest conditions.



DPA200 Pump Dredging



ET10 and DP10 Pumps Concrete factory



VH20 Pump Mining industry

TOYO pumps have been in operation for more than 60 years in many applications, notably:

#### Construction

- pumping and recycling in cement mills
- preparation, pumping and recycling of bentonite
- Transportation of mud, sand and gravel

#### Quarries

- sand and gravel winning
- cleaning and washing of tanks

#### Mining

- pumping of water in gold, diamond and coal mines
- extraction of very dense and abrasive liquids

#### Dredging

- cleaning and dredging of marinas, harbours, rivers, dams, lakes and irrigation channels
- sand extraction from rivers or seas



DPH300 Pump Civil works

#### Environment

- waste water treatment
- cleaning of sand filters

#### Industry

- cleaning of sedimentation tanks
- pumping of scales, tar, oil residues, wastes and tailings
- relay pumping of heavy slurries
- homogenizing and pumping of mixtures

#### Others

- marine salvage
- pipe laying systems

There are many more applications and a network of distributors is in a position to advise and support you.



## GR Pumps

### SUBMERSIBLE ELECTRIC PUMPS

- power from 2.2 to 22 kW
- class F motor with thermal protection
- axial flow of the liquid with cooling of the motor (partial immersion possible)
- semi-open impeller
- one adjustable wear plate (GR15 and GR30)
- mechanical seals
- solids handling up to 50 mm
- submergence to minus 30 m



*VH pump*



*VHA pump*

## ET Pumps

### SUBMERSIBLE ELECTRIC PUMPS

- power from 0.75 to 15 kW
- class F motor with thermal protection
- axial flow of the liquid with cooling of the motor (partial immersion possible)
- semi-open impeller
- one adjustable wear plate
- mechanical seals
- solids handling up to 30 mm
- submergence to minus 30 m
- available in different metallurgies and special executions for high temperatures



*GR pump*

## VH and VHA Pumps

### AMPHIBIOUS HORIZONTAL OR VERTICAL ELECTRIC PUMPS

- power from 1.5 to 30 kW
- designed to work out of the liquid, as well as partially or fully immersed
- the motor is air or water cooled
- two models (VH and VHA) in horizontal or vertical execution (conversion kit available in option) allow multiple applications:
  - VH: 1 outlet
  - VHA: 3 outlets (mixing pump)
- available with or without agitator
- semi-open impeller
- models with one or two wear plates, the bottom one is adjustable
- mechanical seals
- solids handling up to 80 mm
- submergence to minus 30 m
- available in different metallurgies, as well as in special executions for high temperatures and, for VH model, in very compact sledge version



*ET pump*



DP pump

## DPH Pumps

### SUBMERSIBLE HYDRAULIC PUMPS

- power from 11 to 220 kW
- hydraulic piston motor as standard
- closed impeller
- two wear plates, the bottom one is adjustable
- lip seals
- solids handling up to 120 mm
- submergence to minus 30 m as standard and minus 120 m for special executions
- adjustable rotation speed
- numerous possibilities of mounting (hydraulic excavators, dredgers, etc.)
- cooling of the motor by the hydraulic fluid of the power pack (partial immersion possible)
- usable in explosive atmospheres
- available with bio-degradable oil, in different metallurgies, as well as in special executions for high depths



DPH pump

## DPA Pumps

### SUBMERSIBLE ELECTRIC PUMPS

- power from 110 to 1300 kW
- especially designed to work at high depths
- closed impeller
- two wear plates, the bottom one is adjustable
- lip seals
- solids handling up to 120 mm
- submergence to minus 120 m

## DP Pumps

### SUBMERSIBLE ELECTRIC PUMPS

- power from 2.2 to 110 kW
- class F motor
- models with semi-open or closed impeller
- two wear plates, the bottom one is adjustable
- models with lip seals or mechanical seals
- solids handling up to 120 mm
- submergence to minus 30 m as standard and minus 120 m for special executions
- available in different metallurgies, with thermal protection and moisture detector as well as in special executions for high temperatures or depths



DPH pump

## DPE Pumps

### SUBMERSIBLE ELECTRIC PUMPS

- power from 2.2 to 55 kW
- class F motor
- base with detachable bend
- models with semi-open or closed impeller
- models with one or two wear plates, of which the bottom one is adjustable
- models with mechanical or lip seals
- solids handling up to 60 mm
- submergence to 30 m
- available in different metallurgies, with thermal protection and moisture sensor as well as in special executions for high temperatures



DPA pump



The TOYO pump is worldwide available through a network of specialists in pumping applications. This guarantees you to get the right equipment and the best technical support.

Our team of engineers and technicians is ready to study and solve any specific application problem.

Excavators, fixing frames, pontoons and dredgers can also be obtained.

A comprehensive stock of pumps and spare parts is always available for immediate delivery and support.

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