

Surface dewatering pumps solutions

PAS and VAR ranges

Surface dewatering pumps solutions

The surface pumps range are used across multiple industries for applications including construction and mine site dewatering, removing floodwater, and other municipal applications.

The **PAS range** of self-priming centrifugal pumps are the ideal solution for transporting or raising water with abrasive solids in suspension. The **VAR range** of centrifugal pumps are for applications where the main feature is difficulty in priming.

























There is a surface pump for any surface dewatering application



1. Oil & Gas

Oil and gas project are based when general contractors need to realize power plant and long pipeline to tranfer or to extract petroleum.

In the ballasting process, our pumps take sea water in and out into shipyard tanks during loading and off-loading to ensure trim, stability and structural integrity of the vessel.

Application

- Ballasting
- Pipeline hydrostatic test
- Drilling
- Pipeline flushing





2. Mining and Quarry

To guarantee the safety operations in alluvial mining to extract mineral by dredging alluvial deposits.

Application

- Water relaunch
- Washplants
- Silt removal
- Sludge



Ҳ 3. Municipalities

All the projects carried in out in urban areas during maintenance works, in case of sewage network emergency situation caused, for example, by floods or heavy rains. Our units suits perfectly these situations in perfomance, robustness and serviceability.

Application

- Sewage bypass
- Dewatering
- Emergency water treatment





4. Construction

In site, particular attention should be used to create foundations and bacics structures for buildings in residential areas. Key feature is to guarantee a good dry ground

to procect the facility vs water infiltration.

Application

- Site drainage
- Jetting





5. Industry

All the effluent made by the industry process should be relaunched and aftertreated.

Our units fullfill completely their work. Thanks to supply different type of materials according to the different type of fluids pumping.

Application

- Nuclear
- Firefighting temporary protection
- Effluent processing





6. Civil works

In all engineering projects of institutional buildings, road, bridges, canals, dams, airports, railways, is necessary to drenage all the water out of the site of operation.

Application

- Sump water removal
- Dewatering



7. Floods controls

To control storms, hurricanes and protect residential areas versus floods in temporary solutions.

Application

• Emergency





8. Wellpoint

All the areas with high level of ground water need to be reduced. Our units got the capability to work in very large areas. System can be installed in lines, rings around the excavation and powered by several pumping units.

Application

- Groundwater level reduction
- Pipeline on-shore
- Polluted soil remediation
- Tunneling



9. Rental

In site, particular attention should be used to create foundations and bacics structures for buildings in residential areas. Key feature is to guarantee a good dry ground to procect the facility vs water infiltration.

Application

• All related



PAS range

The **PAS pump system** consists of a centrifugal pump and a SuperDuo separator, which enables air to be separated from the liquid and by a vacuum pump – making automatic priming possible. Even with suction heights of several meters, the machine rapidly evacuates the air from the suction pipe and starts to pump. Additionally, thanks to the semi-open impeller, the PAS range is also suitable for pumping liquids with solids in suspension.

SERVICEABILITY IN ANY CONDITIONS

- Patented hinge door access guarantees easy clean-up with minimal downtime.
- All wear components are easily accessible with minimal downtime.
- Easy replacement of the wear components (impeller, plate, mech seal).
- Trimming plate to guarantee the hydraulic performance as an emergency reserve, before scheduled maintenance.





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PACKAGING FLEXIBILITY

- One-by-one stackability in standard canopy and open version.
- Mobility, with heavy-duty skids and road trailer equipped for a range of conditions.









INTEGRATED CONTROL AND POWER CUBICLE

 Digital controller with standard warnings, shutdown, stop/start function, emergency stop and easyto-access and read diagnostics. Configurable set point via transducer to control engine speeds*





SOLIDS HANDLINGS

• The whole range can handle high solids.



FLEX-MOUNT SYSTEM

• Integrated vibration mounts eliminate unwanted vibration.

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Key options

- Impeller CF3M
- Wear plate CF3M
- Stainless steel shaft
- Zinc anodized

Key features

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- Hinge Kit
- Trimming plate*
- Diaphragm vacuum pump
- Dry runnning system
- PW 250, PW500, PW 750 control panel*



VAR range

The **VAR** series pumps range consist in centrifugal pumps, where the key is to have a simple system for first prime. The machine can, with a first water fill up, quickly evacuate the air from the suction and allow to flow the fluid with solid handlings in suspension.

The equipment suits perfectly in medium construction application, bentonite pumping and portable emergency floods control.

WET PRIME SYSTEM

- The system allow the unit to prime accorgily in every conditions trough first water filling up.
- The liquid ring will manage the air into the suction and the unit start to pump.



POSIBLE IN MOBILITY

• Open-frame version available





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MECHANICAL SEAL FLUSHING +

- Thank for the flushing predisposition on the casing backside.
- This solution can guarantee the right start up of the unit and prevent possible breaking caused by fluid solidification.

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SOLIDS HANDLINGS CAPABILITY

• The whole range can handle high solids.



FLEX-MOUNT FOR SYSTEM

• Integrated vibration mounts eliminate unwanted vibration.

Key options

- Impeller CF3M
- Wear plate CF3M
- Stainless steel shaft
- Zinc anodized



PAS range Technical data



| Specifications | | PAS 100 MF 250 | PAS 100 MF 260 | PAS 150 MF 250 | PAS 200 MF 305 | PAS 300 MF401 | PAS 100 HF 250 | PAS 150 HF 300 | PAS 200 HF 305 | PAS 300 HF440 |
|--------------------------------|------|-------------------|-------------------|-------------------|-------------------|------------------|-------------------|-------------------|-------------------|------------------|
| Max. head | m | 36 | 42 | 37 | 30 | 24 | 51 | 51 | 50 | 71 |
| Max. capacity | m³/h | 250 | 325 | 540 | 630 | 1150 | 280 | 520 | 920 | 2160 |
| Suction / discharge size | | DN100 (4") | DN100 (4") | DN150 (6") | DN200 (8") | DN300(12") | ANSI 4" | ANSI 6" | ANSI 8" | DN300 (12") |
| Max. solids handling | mm | 50 | 76 | 76 | 76 | 100 | 76 | 76 | 76 | 89 |
| Best efficiency point | % | 70 | 70 | 77 | 64 | 62 | 70 | 70 | 75 | 72 |
| Max. absorbed power | kW | 17 | 24 | 27 | 33 | 65 | 29 | 51 | 78 | 210 |
| Engine | | | | | | | | | | |
| Emission compliance | | Stage 3A | Stage 3A | Stage 3A | Stage 3B | Stage 4 | Stage 3B | Stage 3B | Stage 4 | Stage 4 |
| Max. engine power | kW | 24,3 | 28,4 | 28,4 | 33,6 | 79,1 | 31,0 | 51,2 | 79,1 | 210 |
| Max. operating speed | rpm | 2000 | 2000 | 2000 | 1800 | 1500 | 2200 | 2200 | 2200 | 1600 |
| Max. fuel autonomy | h | 51 | 48 | 48 | 48 | 24 | 45 | 27 | 22 | 12 |
| Weight and dimensions | | | | | | | | | | |
| Weight (dry) | kg | 1260 | 1260 | 1400 | 1600 | 2600 | 1380 | 1680 | 2250 | 4200 |
| Length | mm | 2250 | 2250 | 2250 | 2560 | 2610 | 2560 | 2560 | 2610 | 3900 |
| Width | mm | 1100 | 1100 | 1100 | 1100 | 1225 | 1100 | 1100 | 1225 | 2200 |
| Height | mm | 1550 | 1550 | 1550 | 1705 | 1840 | 1705 | 1705 | 1840 | 2000 |

LOOKING FOR ELECTRIC?* EP-Pump OPTIONS ALSO AVAILABLE

* Please consult with your local representative.



VAR range Technical data



| Specifications | | VAR 4-250 | VAR 6-250 | VAR 8-305 | VAR 10-305 | VAR 12-400 |
|--------------------------------------|------|--------------------|----------------------------------|------------------------------------|--------------------------------------|-------------------------------------|
| Max. head | m | 40 | 33 | 35 | 39 | 29,3 |
| Max. capacity | m³/h | 180 | 340 | 560 | 690 | 1400 |
| Suction / discharge size | | Threaded 4" BSP | Flanged DN 150 D.I. 1882 (6") | Flanged DN 200 UNI 6082 (8") | Flanged DN 250 D.I. 1882 (10") | Flanged DN 300 UNI 6082 (12") |
| Max. solids handling | mm | 50 | 76 | 76 | 76 | 70 |
| Best efficiency point | % | 65 | 60 | 53 | 70 | 54 |
| Max. absorbed power | kW | 16,5 | 25 | 31 | 45 | 85,5 |
| Engine | | | | | | |
| Emission compliance | | Stage 3A | Stage 3A | Stage 3B | Stage 4 | Stage 4 |
| Max. engine power | kW | 24,3 | 28,4 | 33,6 | 47,7 | 79,1 |
| Max. operating speed | rpm | 2000 | 2000 | 1800 | 1800 | 1150 |
| Max. fuel autonomy | h | 48 | 42 | 50 | 47 | 29 |
| Weight and dimensions ⁽¹⁾ | | | | | | |
| Weight (dry) | kg | 905 | 935 | 1205 | 1850 | 2125 |
| Length | mm | 1750 | 1750 | 2500 | 2800 | 2800 |
| Width | mm | 950 | 950 | 950 | 1450 | 1450 |
| Height | mm | 1520 | 1520 | 1850 | 1850 | 1850 |

(1) Dimensions refer to Block model.Please refer the data sheet with overall dimensions with options

LOOKING FOR ELECTRIC?* EPPump OPTIONS ALSO AVAILABLE

* Please consult with your local representative.

Product portfolio

MOBILE 9-1250* kVA *Multiple configurations available to produce power for any size application **DEWATERING PUMPS** SURFACE PUMPS **SUBMERSIBLE** 833-23.300 l/min 250-16.200 l/min



Diesel and electric options available

LIGHT TOWERS

GENERATORS

PORTABLE

1,6-12 kVA

ELECTRIC







INDUSTRIAL

10-2250* kVA

SMALL PORTABLE

210-2500 l/min

AIR COMPRESSORS AND HANDHELD TOOLS

AIR COMPRESSORS 1–116 m³/min

7–345 bar



HANDHELD TOOLS Pneumatic

Hydraulic Petrol engine driven



ONLINE SOLUTIONS

SHOP ONLINE PARTS ONLINE

Find and order the spare parts for power equipment. We handle your orders 24 hours a day.



POWER CONNECT

Scan the QR code on your machine, and go to the QR Connect Portal to find all the information about your machine.

FLEETLINK

Intelligent telematics system that helps optimize fleet usage, reduce maintenance costs, ultimately saving time and cost.





Atlas Copco AB atlascopco.com CONTAINERS

800-1450 kVA