



## Products Overview

**The energy  
of experience**

**2023**

[www.foras-pumps.it](http://www.foras-pumps.it)



## The energy of experience

**The quality of each electric pump is guaranteed by a complex system of in-line tests on both the hydraulic and electrical parts.**

These are the requirements around which **Foras** it builds not only its own company history, but every single product. The quality of each **electric pump** is guaranteed by a complex system of in-line tests on both the hydraulic and electrical parts. The ability to meet the needs of global markets requires continuous research and development of increasingly advanced solutions in able to meet the regulations and requirements of national markets.



**Foras** is a company specialized in the design, production and marketing of **electric water pumps** for **domestic, residential, agricultural** and **industrial** use. Founded in 1990, Foras has over a decade of experience that allows it to touch the most important areas of use in fluid handling, and to respond with ad hoc solutions to the greater demands of the market.



COMPANY WITH QUALITY, ENVIRONMENT, HEALTH AND SAFETY MANAGEMENT CERTIFIED SYSTEMS  
UNI EN ISO 9001: Certificate No. 50 100 3634  
UNI EN ISO 14001: Certificate No. 50 100 12552  
UNI ISO 45001: Certificate No. 50 100 14960



Pentax

# FORAS

WATER PUMPS





## Peripheral pump



### PE

<b>P2</b>	0,5÷1 [HP]
<b>Q max</b>	3 [m³/h]
<b>H max</b>	79,2 [m]

Peripheral positive displacement pump with front suction (PE) and side suction (PE A) for small household systems and simple industrial applications; characterised by a considerable ratio between performance and required output.



## Peripheral pump



### PL

<b>P2</b>	0,5÷1 [HP]
<b>Q max</b>	3 [m³/h]
<b>H max</b>	61 [m]

Peripheral positive displacement pump with side suction for small household systems and simple industrial applications; characterised by a considerable ratio between performance and required output; frontal brass insert avoiding the risk of blockage.



## Peripheral pump



### PC

<b>P2</b>	0,8÷1 [HP]
<b>Q max</b>	2,7 [m³/h]
<b>H max</b>	53 [m]

Volumetric pump with liquid ring impeller that gives considerable suction power to the pump. Particularly suitable for liquid transfer (including volatile liquids). The model has a frontal brass closing thus avoiding the risk of blockage.



## Self-priming pump



### JA/JR-JAM

<b>P2</b>	0,6÷3 [HP]
<b>Q max</b>	7,2 [m³/h]
<b>H max</b>	59,5 [m]

Self-priming centrifugal pump for water supplies (even if mixed with gas) in small household systems, connected to autoclave tanks, for transferring liquids and emptying tanks; also used for gardening.



## Self-priming pump



### JXF

<b>P2</b>	0,6÷1,5 [HP]
<b>Q max</b>	3,8 [m³/h]
<b>H max</b>	53,6 [m]

Self-priming centrifugal pump for domestic applications such as domestic systems where air is mixed with water. Recommended in combination with pressure set for water transfer, rainwater harvesting and garden irrigation systems.



## Self-priming pump



### PLUS A/PLUS SA

<b>P2</b>	0,9÷1,5 [HP]
<b>Q max</b>	7,8 [m³/h]
<b>H max</b>	53 [m]

Stainless steel multistage horizontal self-priming pumps. Suitable for clean water; pressurizing system; irrigation; drinking and glycol water; water treatment; heating and air conditioning; washing system.



### Self-priming pump



#### PA

<b>P2</b>	0,8+2 [HP]
<b>Q max</b>	3,6 [m³/h]
<b>H max</b>	50 [m]

Self-priming centrifugal pump with external ejector (convertible) 2" and 4"; for water supplies (even if mixed with gas) in small household systems, when connected to autoclave tanks, an automatic pressurisation system comes.



### Self-priming pump



#### JA 150-300

<b>P2</b>	1,5+3 [HP]
<b>Q max</b>	8,4 [m³/h]
<b>H max</b>	62 [m]

Self-priming centrifugal pump for water supplies (even if mixed with gas) in small and medium household and civil systems; when connected to autoclave tanks, an automatic pressurisation system comes.



### Self-priming pump



#### MON/A

<b>P2</b>	0,8+1,2 [HP]
<b>Q max</b>	4,8 [m³/h]
<b>H max</b>	51,5 [m]

Multi-stage centrifugal pump, horizontal and self-priming, particularly suitable for constructing small and medium sized pressurisation systems; able to suck liquids mixed with air or gas.



### Self-priming pump



#### JXM

<b>P2</b>	1+1,2 [HP]
<b>Q max</b>	4,8 [m³/h]
<b>H max</b>	51 [m]

Multi-stage centrifugal pumps, horizontal and self-priming, particularly suitable for constructing small and medium sized pressurisation systems; able to suck liquids mixed with air or gas.



### Threaded centrifugal



#### KM

<b>P2</b>	0,4+5,5 [HP]
<b>Q max</b>	21 [m³/h]
<b>H max</b>	54,5 [m]

Single impeller centrifugal pump, extremely silent suitable for household, civil and industrial applications, with a very flat curve to guarantee constant pressure at the variation of the flow.



### Threaded centrifugal



#### KBJ

<b>P2</b>	1,5+3 [HP]
<b>Q max</b>	10,8 [m³/h]
<b>H max</b>	45,9 [m]

Two impeller compact centrifugal pumps for constructing pressurisation systems for civil and industrial plant; guarantee good ratio between pressure and flow rate.



### Threaded centrifugal



#### KB

<b>P2</b>	1÷15 [HP]
<b>Q max</b>	33 [m³/h]
<b>H max</b>	97,8 [m]

Two impeller centrifugal pumps for constructing pressurisation systems for civil and industrial plant; the two counter-posed impellers guarantee high head and flow rate.



### Threaded centrifugal



#### RA

<b>P2</b>	0,8÷1 [HP]
<b>Q max</b>	16,8 [m³/h]
<b>H max</b>	19,8 [m]

Medium delivery centrifugal pumps for small and medium agricultural applications. Open impeller which allows small solid items to pass through (Ø max 10 mm).



### Threaded centrifugal



#### SD

<b>P2</b>	0,8÷5,5 [HP]
<b>Q max</b>	96 [m³/h]
<b>H max</b>	21,5 [m]

Single impeller centrifugal pumps, from medium to high flow rate with 2", 3" and 4" delivery openings, mainly used in agriculture and applications requiring high level flow rate.



### Threaded centrifugal



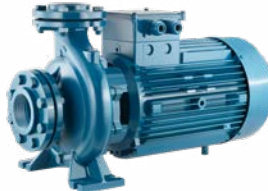
#### SE-SC

<b>P2</b>	1,5÷5,5 [HP]
<b>Q max</b>	39 [m³/h]
<b>H max</b>	37,9 [m]

Centrifugal pumps that combine medium head with medium-high flow rate; ideal for sprinkle irrigation and in applications where quiet operations are requested and large change in flow produces small change in pressure drop.



### Centrifugal flanged



#### MN EN 733

<b>P2</b>	2÷50 [HP]
<b>Q max</b>	330 [m³/h]
<b>H max</b>	103 [m]

Monobloc horizontal centrifugal pumps, constructed in compliance with EN 733 standards; widely used in water supplies, pressurisation and fire-fighting systems, cooling, heating, irrigation, industrial and agricultural applications; standard supply with counter-flange.



### Centrifugal flanged



#### MNG-MNGX

<b>P2</b>	60÷125 [HP]
<b>Q max</b>	360 [m³/h]
<b>H max</b>	93,9 [m]

Monobloc horizontal centrifugal pumps, constructed in compliance with EN 733 standards, with stub-shaft and bracket for coupling to standard motors; widely used in water supplies, pressurisation and fire-fighting systems; standard supply with counter-flange.



## Centrifugal flanged



### MA/MAX-4MA/4MAX

<b>P2</b>	2,2÷148 [HP]
<b>Q max</b>	612 [m³/h]
<b>H max</b>	147 [m]

Bare shaft centrifugal pumps constructed in compliance with EN 733 standards; widely used in water supplies, pressurizing and fire-fighting systems. The pump is supplied with counter-flanges.



## Centrifugal flanged



### KMS

<b>P2</b>	2÷30 [HP]
<b>Q max</b>	216 [m³/h]
<b>H max</b>	69 [m]

Monobloc horizontal centrifugal pumps. Widely used in water supplies, pressurization, cooling, and industrial applications. Their flat curve guarantees small change in pressure drop for large change in flow.



## Multistage horizontal



### PLUS/PLUS S

<b>P2</b>	0,5÷4 [HP]
<b>Q max</b>	25,2 [m³/h]
<b>H max</b>	83,3 [m]

Stainless steel multistage horizontal pumps. Pumping of clean non-loaded fluids, pressurizing system, irrigation, drinking and glycol water, water treatment, heating and air conditioning, washing system.



## Multistage vertical



### PLUS V-L/ PLUS LG

<b>P2</b>	1÷10 [HP]
<b>Q max</b>	24 [m³/h]
<b>H max</b>	129 [m]

Stainless steel multistage vertical pumps. Pumping of clean non-loaded fluids, pressurizing system, irrigation, drinking and glycol water, water treatment, food industry, heating and air conditioning, washing system.



## Multistage vertical



### PLUS SV-SL-SLX

<b>P2</b>	1÷10 [HP]
<b>Q max</b>	24 [m³/h]
<b>H max</b>	133,2 [m]

Stainless steel multistage vertical pumps. Pumping of clean non-loaded fluids, pressurizing system, irrigation, drinking and glycol water, water treatment, food industry, heating and air conditioning, washing system.



## Multistage vertical



### PLUS SLG-SLXG

<b>P2</b>	3÷10 [HP]
<b>Q max</b>	14,4 [m³/h]
<b>H max</b>	240,9 [m]

Stainless steel multistage vertical pumps. For non-loaded clean fluids, pressurizing system, irrigation, drinking and glycol water, water treatment, food industry, heating and air conditioning, washing system.



## Multistage vertical



### PLUS HS-HX

<b>P2</b>	1+60 [HP]
<b>Q max</b>	115 [m³/h]
<b>H max</b>	278,9 [m]

Stainless steel multistage vertical pumps. Suitable for clean non-loaded fluids, pressurizing system, irrigation, drinking and glycol water, water treatment, food industry, heating and air conditioning, washing system.



## Motors



### IE3

<b>P2</b>	0,25+483 [HP]
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## Booster set



### Aquadomus

<b>Q max</b>	5,4 [m³/h]
<b>H max</b>	63 [m]



## Booster set



### AQUASET

<b>P2</b>	05+3 [HP]
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Compact, built-in, fully automatic pressurization units consisting of a single pump, membrane tank, pressure switch, pressure gauge, connectors and cable with plug. They are ready for installation and suitable for pressure boosting in water systems for domestic use and industrial applications.



## Booster set



### AQUASET+VSD

<b>P2</b>	1+2,5 [HP]
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AQUASET+VSD are compact and automatic booster sets consisting of one single-phase variable speed drive EPIC and one three-phase horizontal pump with a membrane tank. They provide constant pressure regardless changes on flow demand, making them suitable for low or missing pressure in domestic systems and small industrial applications.



## Booster set



### AQUASET+flow control





Booster set



**Pre-set pump**

Booster set



**2 Units Self-priming**

<b>P2</b>	2×1+3 [HP]
<b>Q max</b>	280 [l/min]
<b>H max</b>	62 [m]

Booster set



**2 Units Centrifugal**

<b>P2</b>	2×1+5 [HP]
<b>Q max</b>	8000 [l/min]
<b>H max</b>	97,6 [m]



Booster set



**2 Units Multistage**

<b>P2</b>	2×0,5+9 [HP]
<b>Q max</b>	840 [l/min]
<b>H max</b>	133 [m]

Booster set



**2 Units Multistage+VSD**

<b>P2</b>	2×0,5+10 [HP]
<b>Q max</b>	840 [l/min]
<b>H max</b>	133 [m]

Booster set



**3 Units Multistage**

<b>P2</b>	3×1+9 [HP]
<b>Q max</b>	1200 [l/min]
<b>H max</b>	133 [m]

### Drainage and sewage



#### SP/SPV

<b>Q max</b>	15 [m³/h]
<b>H max</b>	12,2 [m]

Drainage pump for emptying pits and cisterns, for gardening; completely constructed in anticorrosive material. Brass insert on the delivery opening (SP 80/100 - SPV 80/100).



### Drainage and sewage



#### SPM

<b>Q max</b>	7,2 [m³/h]
<b>H max</b>	39,3 [m]

Multistage drainage pump for clean water made of technopolymer material. The single-phase version with built-in capacitor and thermal protector, can be equipped with float switch.



### Drainage and sewage



#### DR

<b>Q max</b>	18 [m³/h]
<b>H max</b>	18,5 [m]

Drainage pump with open impeller for pumping liquids with suspended solids. Characterized by high head.



### Drainage and sewage



#### FC

<b>P2</b>	1,5÷10 [HP]
<b>Q max</b>	54 [m³/h]
<b>H max</b>	49,8 [m]

Centrifugal drainage high head pumps ideal for civil and industrial applications, specifically designed for very heavy use. Available in the mobile or permanent versions with coupling feet.



### Drainage and sewage



#### DB

<b>Q max</b>	39 [m³/h]
<b>H max</b>	11,5 [m]

Drainage pump with "Double-Channel" impeller for pumping waste waters and liquids with suspended solids; ideal for civil and household applications.



### Drainage and sewage



#### FM/FM4

<b>P2</b>	1,5÷10 [HP]
<b>Q max</b>	180 [m³/h]
<b>H max</b>	32,7 [m]

Single-channel centrifugal drainage pump; besides the high capacity it guarantees excellent head; ideal for civil and industrial applications; specifically designed for very heavy use; available in the mobile or permanent versions with coupling feet.



## Drainage and sewage



### FTR with grinder

<b>P2</b>	1,5÷10 [HP]
<b>Q max</b>	21,6 [m³/h]
<b>H max</b>	52,7 [m]

Centrifugal drainage pump that guarantees high head. The grinder allows to pump sewage containing textile or filamentous fibres, industrial, civil and zootechnical sewage whenever suspended solids have to be crushed; available in the mobile or permanent versions with coupling feet.



## Drainage and sewage



### DC

<b>Q max</b>	24 [m³/h]
<b>H max</b>	9,4 [m]

Drainage pump with set-back Vortex type impeller for pumping charged waters and liquids with suspended solids; ideal for civil and household applications.



## Drainage and sewage



### DS

<b>Q max</b>	18 [m³/h]
<b>H max</b>	9 [m]

Drainage pump with set-back Vortex type impeller for pumping charged waters and liquids with suspended solids; ideal for civil and household applications.



## Drainage and sewage



### FV/FV4

<b>P2</b>	1,5÷10 [HP]
<b>Q max</b>	204 [m³/h]
<b>H max</b>	25,2 [m]

Drainage pump for charged liquids with set-back Vortex type impeller for civil and industrial applications; specifically designed for very heavy use; available in the mobile or permanent versions with coupling feet.



## Deepwell borehole pump



### 5FES

<b>P2</b>	0,75÷1,5 [HP]
<b>Q max</b>	7,5 [m³/h]
<b>H max</b>	75,5 [m]

5" submersible multistage centrifugal pumps. All components in contact with fluid are made of AISI 304 stainless steel. Particularly suitable for water distribution rainwater collection, irrigation, fountains, wash down unit. Single phase versions have an internal capacitor and thermal motorprotector.



## Deepwell borehole pump



### 4L-6L-4FA

<b>P2</b>	0,5÷50 [HP]
<b>Q max</b>	54 [m³/h]
<b>H max</b>	536 [m]

Submersible multistage centrifugal pumps for 4" wells. Check valve built into the delivery outlet. Pump flange for coupling with motors are made according to NEMA standards. Most common applications are civil and agricultural.



### Deepwell borehole pump



#### LMG-LMS-LRS-E14

<b>P2</b>	1+550 [HP]
<b>Q max</b>	860 [m³/h]
<b>H max</b>	740 [m]

Submersible multistage centrifugal pumps for 6", 8", 10", 12" and 14" wells. Check valve built into the delivery outlet. Pump flange for coupling with motors are made according to NEMA standards. Most common applications are civil and agricultural.



### Deepwell borehole motor



#### 4"-6" MFE/MFEW/MPC

<b>P2</b>	0,5+50 [HP]
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4" and 6" Submersible motor-driven pumps, that can be rewound, in non-toxic oil bath characterised by the high peak torque, mechanical compactness, reliability.



### Deepwell borehole motor



#### 6"-8"-10"- R

<b>P2</b>	7,5+250 [HP]
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6", 8", 10" submersible water-filled motors with NEMA coupling flange. Power from 4 kW up to 185 kW. Available in PPC (standard), LPE and PE2+PA. AISI 304, AISI 316, DUPLEX versions available. The motor can be supplied in AISI 304, AISI 316 or DUPLEX.



### Deepwell borehole motor



#### PTR12-PTR14

<b>P2</b>	300+550 [HP]
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12" - 14" submersible rewindable water-filled motors. Power from 185 kW up to 400 kW. Standard PE2+PA winding, for temperatures up to 30°C.



### Swimming pool line



#### POOL line

<b>P2</b>	0,25+15 [HP]
<b>Q max</b>	188 [m³/h]
<b>H max</b>	22 [m]

Self priming pump for pools with a large built-in pre-filter, which, together with the excellent hydraulic performance of the pump, generates a very high filtration capacity.



### Industrial line



#### BMH/4BMH-BMV/4BMV

<b>P2</b>	3+50 [HP]
<b>Q max</b>	84 [m³/h]
<b>H max</b>	257,1 [m]

Multi-stage centrifugal pumps that guarantee high pressure. Particularly suitable for civil and industrial applications - in particular pressurisation systems, fire fighting systems and washing plant.



## Industrial line



### HP LINE

<b>Q max</b>	1200 [m <sup>3</sup> /h]
<b>H max</b>	1000 [m]

The multistage centrifugal pumps belonging to the HP series have a radial cross section, allowing an horizontal or vertical installation. This family of pumps is designed to operate in heavy duty conditions and with very high pressures and with temperatures up to 180°C.



## Industrial line



### PSC

<b>Q max</b>	4000 [m <sup>3</sup> /h]
<b>H max</b>	180 [m]

Horizontal axial split case single stage centrifugal pumps with in-line inlet and outlet. The double suction impeller design provides hydraulic balance to enhance bearing life span.



## Industrial line



### VP LINE

<b>Q max</b>	1600 [m <sup>3</sup> /h]
<b>H max</b>	400 [m]

Vertical axis pumps recently improved in the hydraulic design with new models and solutions specifically developed for the industry sectors.







## Electronic flow control



Complete replacement of the traditional water system set consisting on pressure switch and pressure tank. Control the starting of the electric pump after a pressure decrease (taps opening) and stopping when the fluid flow interrupt at the maximum pressure level of the electric pumps (taps closing).

## Variable speed drive



It's a frequency changer (inverter); specifically studied for control and protection of electric pumps. Connected to any electric pumps regulates the motor speed in order to manage the pumps performance in relation to the operating conditions and requests of the system.

## Protection/control panel



Protection and control panel for one electric submersible or submerged pump; star-delta connection; direct boot.

## Membranes



## Pressure gauges



## Flexible hoses



## Float switches



## Level probes



Single pole probe used for level control in wells or storage tanks. It made of an AISI 303 stainless steel electrode, a plastic (PPOX) holder and a cable gland.

## Cable joints



This kit is composed of: crimp wire connectors in tinplated copper, thin wall heat-shrinkable tubing to cover the conductor of the cable, a strip of Scotch 2547, one of Scotchfil and medium wall heat-shrinkable tubing to cover the junction.

## Tanks



Interchangeable membrane expansion tanks; the pre-charge pressure in the tank guarantees a water reserve but also reduces the number of startups of the connected pump; the membranes are certified for use with foodstuffs; they may be in EPDM or butyl depending on the model.

## Pressure switch



## Connectors/valves





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**PENTAX INDUSTRIES S.p.A.**

Viale dell'Industria, 1

37040 Veronella (VR) - Italia

Tel. +39 0442 489500 - Fax +39 0442 489510

[www.pentax-pumps.it](http://www.pentax-pumps.it)

Viale dell'industria, 1  
37040 Veronella (VR) - Italia

Tel. +39 0442 489500

Fax +39 0442 489510

[www.foras-pumps.it](http://www.foras-pumps.it)

[com@foras-pumps.it](mailto:com@foras-pumps.it)

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