



Pressurised  
Water Excellence

DESIGN • BUILD • SUPPLY • INSTALL • MAINTAIN

[www.pumpforce.co.uk](http://www.pumpforce.co.uk)



## Welcome to Pumpforce

Pumpforce are industrial pump experts providing the latest solutions in pumping technologies. At the core of our company is an exceptional team. They are highly trained, experienced, proactive engineers, technicians and sales support staff who play a vital role in Pumpforce's reputation for reliability and outstanding customer support.

We offer all the advantages of big company support and back up whilst remaining firmly focused on the virtues of close customer contact and genuine personal service.

Our engineers are specialists in fluid transfer systems. We supply, install, service, repair and distribute industrial pumps, pre-fabricated pumping skids, condensate recovery pumps and more. Our team are dedicated and provide the highest standards in quality, design, manufacturing and servicing.

We engage with our customers to build long term trusted partnerships. We offer independent expert advice and support on flow control technologies. Customers benefit from the right technical solution at a competitive price to suit their needs.

Our comprehensive knowledge and experience cover the following:


- Boiler feed pumps and LTHW shunt pumps
- Pressurisation units
- Pre-fabricated booster sets
- VFD drives and controls
- Pump control panels
- Transducers, switches and break tank floats
- Mechanical seals and bearing change
- Fault finding and replacement of components
- Motors, motor bearings, PRV's and failed electrical components

In addition to supply, our on-site and in-house services include:

- Design
- Modifications
- Repair
- Overhaul
- Installations
- Servicing

We are based in Solihull in the West Midlands, with UK coverage.

Let Pumpforce find the solution to your pumping technology problems – we're here to help!

  
Mark Bozdogan  
Managing Director



*We are committed to providing industry with the latest technology, consistent high quality, outstanding reliability and the highest levels of performance and service.*



# Our partnership

delivering a turnkey approach

Customer requirements are continually changing due to the significant loss of engineering expertise and manpower. The Force Group has evolved to align our business to meet customer needs, with the combination of our specialist companies is testament to that.

The Force Group vision, is to be number one partner of choice for all your industrial and process control needs. We want our customers to See the Force Group as an extension of their own team. The introduction of our specialist water pump and pressurized services is evidence of this Philosophy.

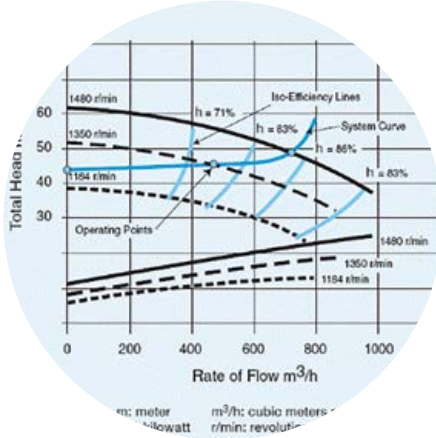
**Our proactive and dedicated team will support your specific needs providing a single point of contact.**

We have extensive knowledge to help improve, monitor, control and maintain your plant equipment, at every stage. The Force Group are highly trained in their field of expertise, with an outstanding reputation and customer support build over decades is testament to that.

Our strong product and application knowledge, workmanship standards and exceptional levels of service help us to build strong relationships with our customers, ensuring they receive the very best level of service throughout every stage of our partnership.

## Total Industrial Control

With a turnkey approach firmly in mind, the Force Group continues to develop its offering with the emphasis in the following areas:



### SPECIFICATION & DESIGN Understanding Your Needs

We invest time in understanding our customer's issues, using our expertise we develop the most cost-effective approach.



### SUPPLY & INSTALLATION A Turnkey Approach

A multi-disciplined turnkey approach to executing the projects that we deliver. Full equipment supply, energy saving costs to suite.



### SERVICE & MAINTENANCE Repair / Maintain / Diagnose

Taking advantage of service contracts will give peace of mind knowing that Pumpforce has the knowledge to preserve the life expectancy of your equipment.





## Our expertise and the benefits to you

**Our engineers and technicians have established a reputation for providing expert solutions to complex pump applications and maintenance issues.**

We are relied upon more and more as a specialist extension to our customers' team, providing valuable support services when required. Our engineers have a fantastic reputation for providing expert solutions to complex fluid transfer problems.

### Our Capabilities

- Industrial pump experts providing the latest solutions in pumping technologies
- Specialists in the field of fluid transfer
- Highest standards in quality, design, manufacturing and servicing
- Maintain equipment to its full potential, minimising energy costs and downtime
- Increase the life expectancy of equipment, minimising faults to prevent maintenance issues
- Integrated application of programming, maintaining optimum performance
- Supply, install, service, repair and distribute industrial pumps, pre-fabricated pumping skids and condensate recovery pumps and much more

### Consultancy & Design

Our pump specialist will discuss your system needs to assess your requirements. We apply our technical expertise to provide a structured recommendation to improve the efficiency and reliability of your plant.

We offer full design and consultation services as well as fabrication, installation, controls and commissioning. You will receive independent support and expert advice to guarantee the right product for your application.

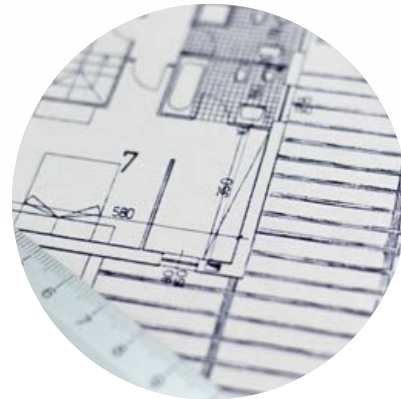
Our in-house design team use Solidworks to produce precise drawings, schematics, calculations and product specification.

### On & Off-site Repairs & Maintenance

Increase process efficiency and reduce capital costs with our extensive repair service. Pumpforce are in the ideal position to manage and maintain your critical assets. We understand the disruption and costs that plant downtime can have on your business. We respond quickly to meet your needs, ensuring your equipment is repaired and restored in full working order, keeping downtime to a minimum.

Pumpforce offers both in-house and off-site repairs. All our highly trained engineers are CCNSG safety passport holders who regularly undertake in-house training. One of our experienced engineers can visit your site to overhaul your plant in-situ, reducing downtime to your equipment.

All our pump set packages are built to the highest standards, with our in-house testing procedures, ensuring outstanding performance and reliability. We have an extensive manufacturing facility comprising of assembly areas, inspection test sections and dedicated storage.



## On-site Service & Support

### On-site Repairs

At critical times, we understand that it is far easier to carry out work in-situ, especially where repairs are concerned. Where applicable, our team will come to you to offer a complete on-site repair and overhaul service.

We provide an extensive range of supporting services including the following:

- New installation and replacement projects
- On-site maintenance and refurbishment
- Pro-active service contracts
- Planned Preventative Maintenance (PPM) service contracts

Having both the pressurisation units and expansion vessels serviced keeps the correct system pressure, allowing the system to breath and run smoothly to its crucial working pressure.

### Advantages of Service Contracts

- Ensure plant equipment runs smoothly
- Keep critical equipment in optimum condition to prevent downtime
- Peace of mind that your equipment has been serviced and maintained
- Increase life expectancy of water pressurised systems
- Prevent friction losses to maximise efficiency

Our maintenance and service contracts are individually tailored towards the end user requirements from Cold Water Booster Sets to Pressurisation Units, repair and servicing.

Depending upon many factors, the performance and efficiencies of pump equipment can diminish over time. By choosing to protect your pumps with a service agreement, you will receive a specialist maintenance programme that not only ensures your system is running at its best, but helps to minimise costly downtime.

All service visits are managed and carried out by our nationwide network of service engineers. Their knowledge of pumping technologies, mechanical seals and spares is second to none. You can be confident that your equipment is in expert hands.







# Our products and services

## Pre-fabricated booster sets

Our booster sets are designed to deliver constant water pressure at adaptable flow rates, keeping pipework friction losses to a minimum. This increases the efficiency of your plant and automatically boosts performance.

Our bespoke cold water booster sets are used for pumping stored drinking water to high-rise and commercial buildings. We also supply and install circular pumps, which are used for closed heating and chilled water applications.

## Boiler feed pumps and LTHW shunt pumps

Pumpforce supply and install LTHW feed water pumps, which are crucial in the recovery of the condensate in the boiler feed tank. We offer horizontal and vertical multistage pumps, as well as split ring section pumps, single or double volute casing.

We provide a wide range of vertical can type ring section pumps and vertical tubular casing pumps. These can be installed on a base frame with multi-stage or single-stage impeller design, as well as end suction to suit flanges of DIN or ANSI type.

These are used in industrial plants and power stations via boiler feed systems and condensate recovery.

## Packaged pressurisation units

Our pressurisations units are suited to a diverse range of industries. Some of our pressurisations units are specifically designed to maintain the minimum water pressure in a sealed chilled and heating system.

## Variable frequency drives (VFD)

Pumpforce delivers a range of variable speed drives for all your pump requirements, automatically adjusting the flow rate to suit demand. Automatic frequency controllers are used in pumping applications, where the flow rate is matched either to volume or pressure. VFDs are used in a wide range of industries, which can offer a significant energy saving cost.

We have the specialist skills and expertise to commission and optimise any of our drive software. We offer all the advantages of big company support and back up, whilst remaining firmly focused on the virtues of close customer contact and genuine personal service.



## Pump skids

Pumpforce use their in-house design and manufacturing capabilities to create pre-fabricated skids for a diverse range of industries. As part of The Force Group, we offer the comprehensive design and installation solution. We can specify and supply the necessary pumps, drives, valves, connectors and pipework as well as the controls and sensors. Our pump skid packages are designed and manufactured in our manufacturing facilities in the West Midlands. Our in-house design team use Solidworks to produce precise drawings, schematics, calculations and product specification.

## Pump control panels

We specialise in the design and construction of all types of pump control panels, manufactured on-site in Solihull. All our control systems are built to the highest standards, with our in-house testing procedures ensuring outstanding performance and reliability. We have an extensive manufacturing facility, comprising of assembly areas, across a dedicated test and inspection station. We are proud to be British manufacturers based in the heart of the country, with excellent transport links to all of the UK.

## Condensate recovery pump sets

The Force Group can also offer condensate recovery solutions which include:

- Stainless steel atmospheric collection vessel with electric pump sets
- Duty and cascade pump control for efficient recovery of valuable condensate
- Condensate pump sets pre-fabricated and robust in design for reliable long life
- Reduction on water preheat costs
- Fuel cost savings
- Savings on water treatment – hot condensate is relatively pure water, returning it
- Reduces chemical treatment requirements

## Site surveying

Our technicians and engineers can commission your pumping technologies. They will set up, manage and fine tune your equipment or plant to its optimum efficiency. We offer a service where we do on-going reviews and upgrades of your equipment.

Where applicable, we offer the following on-site:

- Repair and service of pumps in sealed heating and chilled water systems
- Safe removal of pumps from heating and chilled systems
- In-depth breakdown and evaluation with a quick response
- Strip and detail the work needed for repair or replacement





Contract Servicing

Servicing is forward thinking in the prevention of equipment failure. Having an annual or bi-annual contract will help in the defence against system failure, preserving the life expectancy of water pumps and pressurized equipment.

Pumpforce can offer service contracts to suit your pocket, with detailed service reports giving you an in-depth knowledge needed to maintaining a healthy system.

For further information call Pumpforce on 0121 711 1908 to talk to one of our specialists, who will be happy to advise.

	Works Undertaken	
	Critical plant BI-Annual/ Quarterly Visit	Annual Visit
Pressurisation Unit Servicing		
Isolate pressure unit and expansion vessel from system	✓	✓
Test unit pumps for leaks and bearing fatigue, free impeller assembly if seized	✓	✓
Inspect and test NRV'S. Essential for correct operation	✓	✓
Test high and low alarms to BMS systems	✓	✓
Inspect controllers for integrity and good electrical connection	✓	✓
Inspect controller settings and programs, modify if needed to maintain correct system pressures	✓	✓
View fault log, investigate if needed. Reset all service counters	✓	✓
Teat solenoid valves opening and closing (where applicable)	✓	✓
Test ball cock assembly and inspect condition of break tank water, clean if needed	✓	✓
Inspect and clean any PRV's coming of pressure unit. Re-calibrate after cleaning	✓	✓
Drain associated expansion vessels and inspect air cushion	✓	✓
Recharge vessel air cushion back to correct working pressure if needed	✓	✓
Re-test unit after serving leave open up to system	✓	✓

Booster Sets Servicing		
Individually inspect each pump for mechanical seal leakage and lime scale build up	✓	✓
Test correct installation and rotation	✓	✓
Note any imbalance or acoustic noise with motors and pumps for fatigue and worn parts	✓	✓
Visually inspect electrical wiring to inverter (where applicable)	✓	✓
Inspect inverter programs, adjust if needed (where applicable)	✓	✓
Inspect and test NRV'S. Essential for correct operation	✓	✓
View alarm log and investigate (reset where applicable)	✓	✓
Test each pump max head at closed valve, against pump data design pressure	✓	✓
Test pressure transducer settings against system gauges (modify if needed via controller)	✓	✓
Test set, wake up sleep threshold along with run on timers (pumps start and stop feature)	✓	✓
Test low suction sensors, making sure dry running protection is working correctly and enabled	✓	✓
Test break tank floats, low and high (where applicable)	✓	✓
Isolate accumulators and drain water off	✓	✓
Inspect air pressure in accumulators and re-charge to suit correct booster working pressure (SP)	✓	✓
Re-test booster after servicing, leaving set in to optimum condition open system in auto	✓	✓

	Works Undertaken	
	Critical plant BI-Annual/ Quarterly Visit	Annual Visit
Heating pumps, shunt pumps and chilled pumps		
Inspect correct installation and rotation of pumps	✓	✓
Note orientation of selected circulator pumps. Advise if incorrect	✓	✓
Visually inspect electrical wiring and connection to motor and inverter	✓	✓
Inspect programs and settings, adjust to suit required value of system (where applicable)	✓	✓
Visual inspection of mechanical seal for water leakage and lime scale build up	✓	✓
Note any imbalance or acoustics with motor and pump for fatigue and worn parts	✓	✓
Grease bearings via nipples, and update programme (selected models only)	✓	✓
All pumps to be left in optimum condition open system in auto	✓	✓

**Commissioning**

Pumpforce engineers can carry integrated application of programming for pressurisation units, pumps and cold-water booster set to optimum performance, giving the end-user peace of mind knowing that the equipment is running at its full potential and condition, increasing the life expectancy of equipment which in turn will help prevent faults keeping maintenance and energy cost down, eliminating costly down time of plant equipment.


**Expansion Vessels and Accumulators**


Pumpforce recognises the Importance of expansion vessels and accumulators which play a vital role in the smooth operation of systems and products taking up system pressures, allowing the system to breathe. That's way pump force engineers will service, set up and commission essential correct working pressure.





Pumpforce Ltd  
Unit 20 Monkspath Business Park  
Shirley  
Solihull  
B90 4NZ

 0121 711 1908

 0121 711 1909

 [info@pumpforce.co.uk](mailto:info@pumpforce.co.uk)

 [www.pumpforce.co.uk](http://www.pumpforce.co.uk)

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of Companies Ltd