



Engineering Support Solutions
— (UK) LIMITED —



Information Pack

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ESS Mission Statement

The aim of ESS (UK) LTD is to work in partnership with our customers and continue to expand our services with an emphasis on quality and value for money throughout the UK and Ireland

About Us

Engineering Support Services UK Ltd was founded in 2006 is rapidly becoming known as the UK's leading authority in mechanical and electrical engineering. Primarily specializing in fluid movement, we accommodate for the support, installation, maintenance and repair of pump equipment.

ESS UK Ltd has since expanded to cater for all means of engineering works from bespoke designs, to supply and commissioning, in irrigation, to air conditioning, to waste water management. ESS UK Ltd caters for all of your engineering needs.

Based on the Slough Trading Estate, Berkshire we have permanently staffed offices and a fully fabricated workshop. This enables us to carry out all possible works including renovations and repairs in house. Thus, enabling us to provide a faster completion time than any of our competitors.

We host a fleet of vans and a full staff of engineers with over 45 years of combined experience within the pump industry. We facilitate for works all across the UK and Ireland. Operating a 24/7 365 days per year emergency call out service to all our customers.

We guarantee to deliver the highest quality of works and services at the most competitive prices. Our consistency, professionalism and reliability has enabled us to gain access to deliver works in some of the most prestigious and secure locations across the country including The Royal Households, HM Treasury and Heathrow Airport.

ESS UK Ltd has the experience and amenities to carry out projects of all sizes from retrofit, to larger scale projects and tenders.

Contents

Page 4 –	Booster Systems & Pressurisation Units
Page 5 –	Fluid Transfer & Circulation
Page 6 –	Waste Water & Sewage Ejection
Page 7 –	Circulating & Temperature Transfer (HVAC)
Page 8 –	Electrical
Page 9 –	Irrigation Commercial & Residential
Page 10 –	Metal Fabrication
Page 11 –	Mechanical Electrical Repairs
Page 12 –	Servicing & Commissioning
Page 13 –	Emergency Call Outs & Service Contracts
Page 14 - 15 –	Services Overview

Booster Systems & Pressurisation Units

Engineering Support Solutions are renowned for their bespoke booster systems and pressurization unit designs and builds. We will design a custom-built pump set to suit all of your facilities requirements.

As well as keeping within budget we also take into consideration the most optimal access and egress requirements for the unit itself to ensure future maintenance is hassle free.

ESS UK Ltd also ensures that all equipment that is installed is as energy efficient as possible, minimizing future running costs as much as possible guaranteeing your rate of return of each unit.



Fluid Transfer & Circulation

Pipe Work Systems

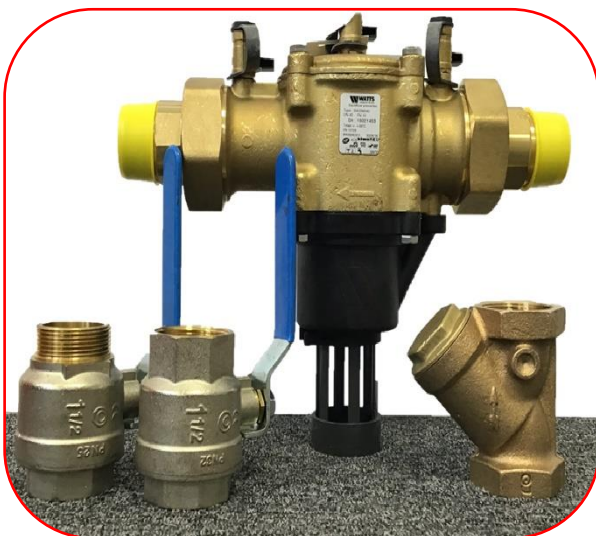
We are able to design and install pipe work systems specific to your requirements. All materials, sizes and lengths worked with from base builds to repairs.

Valves

ESS UK Ltd has extensive experience working with all means of valves (specialist to standard). We are able to repair, supply, install and maintain any and all types of valves specific to your requirements.

Insulation & Thermal Protection

This includes both interior and exterior insulation, as well as heat protection coverings. ESS UK Ltd also facilitate for trace heating installs and repairs.



Wastewater & Sewage Ejection

Base Install

ESS UK Ltd provides specialist knowledge and guidance for bespoke base installs, specific for your systems required flow and lift requirements. We have a vast array of pumping technologies at our disposal to manage all forms of fluid and waste media.

Refurbishment

ESS UK Ltd has a team of specialist engineers devoted to repairs and refurbishments. No matter what your fault is we will do our utmost to determine whether a repair is more cost effective and viable before upgrading any unit. This includes:

- Pump & Motor Repairs
- Control Panel Inspection & Repairs
- Fluid Level Controls Inspection & Repair

Retro Fit

We always ensure we supply you with the most modern equivalent for any pumps and units we replace. Supplying you with all your system requirements from alarms & indicators to complete control panel customization.

Circulating & Temperature Transfer (HVAC)

Air Conditioning, Fans & Chilled Water Systems

Engineering Support Solutions UK Ltd circulating and temperature transfer (HVAC) division specialise in all means of commercial heating and cooling systems. From a design to an install, or a detailed survey we always strive to give competitive quotations for all your system requirements.

We offer a vast range of equipment of the worlds leading manufacturers such as Mitsubishi to LG Electronics. Our skilled engineers are also capable of full unit inspections and cleaning of any pipes and relevant equipment, both internally and externally. **Five years guarantee on selected products.**

Boiler & Heating Systems

ESS UK Ltd can also supply, install and maintain commercial boiler and heating systems complying with ECA requirements. We offer a full range of units – wall hung and floor mounted. Amongst our valued suppliers they have over 100 years experience, with this in mind you can be confident to know that our capabilities stretch beyond traditional boiler technologies.

All of our products are reliable, energy efficient and easy to use.



Electrical Engineering

Control Panels

Whatever your system requirements if your control panels are where complications lay, we can supply and install **bespoke custom builds** perfectly suited to both yours and your systems needs that maximise space and are user friendly.

We also offer a 'fault finding' service for any panels you are having difficulty with, which will gladly help modify and update for you.

Electrical Installation & Testing

From cable runs to components our electrical division is well rounded to ensure we assist you with all nature of electrical requirements and issues. We strive to ensure all electrical works are functionally tested, which results in safe, operational use.

PAT Testing

ESS UK Ltd also provides full PAT testing for all platforms, including workplaces and offices.



Irrigation Commercial & Residential

Engineering Support Solutions UK Ltd has a dedicated Irrigation division, with over 35 years experience. This division is fully committed to delivering the best possible service at competitive prices for all of your irrigation requirements to ensure plant life and shrubbery thrive. We provide advice, design specifications, technical drawings and supplier performance for all proposed works.

Commercial & Private Gardens

Our irrigation division offer high quality solutions for prominent commercial and private landscape irrigation projects. We also include full technical back up, on site inspections and on-going maintenance services.

Horticultural Systems

Watering by hand can be a very time consuming process. Automatic watering systems reduce costs and plants benefit from regular, even watering. We cover all aspects of horticultural irrigation including garden centre irrigation, nursery irrigation and field irrigation

Metal Fabrication

ESS UK Ltd operates a fully staffed and functional workshop facility for all its' specialised works and repairs. This enables us to keep our customer works in house, offering a complete service from design to assembly.

Plant Room Fabrication

We offer full plant room refurbishment, design and build to suit individual and site specifications Catering for all of your needs from pipe requirements, structural supports and systems etc.

Access Platforms

This includes access solutions for roof, plant and maintenance applications. We provide long-term health and safety compliant access whatever the condition. A fully engineered package is available including site survey, layouts for approval and structural calculations.

Sheet Metal Work

We can create unique products and prototypes to suit your requirements and we have the capability for small batch production. We have the latest technology at our disposal to cut, press, fold, punch & guillotine steel for assembly.

We also facilitate for stainless steel fabrication, which we have already done for the catering and food processing industries.



Mechanical Electrical Repairs

Engineering Support Solutions UK Ltd caters for all means of mechanical electrical works and we consider no problem too big or small. Onsite repairs can and will be carried out if possible, but if not our workshop allows us means to carry out repairs through our repair division.

Repairs include:

- Pump Repairs
- Motor Rewinds
- Motor Repairs
- Onsite Bearing & Seal Changes
- Gear Box Repairs
- Machining
- Onsite Air Handling Unit (AHU) repairs



Service & Commissioning

As well as supply and installation our experienced and skilled engineers are also capable of servicing and commissioning as a sole service for any new units, systems and applications, both digital and analogue installed. All units and systems will be fully calibrated and programmed ready for use. If you do not have the expertise for this task please let us help you. Our engineers pride themselves in their high quality of work and always strive to ensure our clients are fully satisfied.

Approved agents for: Grundfos, Lowara, DAB, ABB, Danfos, Vacom, Flygt, Jung, Reflex, Flamco and many more.

ESS (UK) ltd are also fully qualified in Reduced pressure zone valve installation, service and repairs.

We now work in partnership with Spirotech who are a leading manufacturer in system quality and vacuum degassing are.



Emergency Call Outs & Service Contracts

Emergency Callouts

ESS UK Ltd offers 24/7 support service to all of our customers. We like to operate a rapid response, getting to site to fix the problem immediately without delay.

Service Contracts

Service contracts are available. We have a large portfolio of facilities that we manage. Please enquire for more details as we are always looking for new clients to devote our skills and expertise too.



Services overview

To give you a brief overview of the services that Engineering Support Solutions provide, we have collated the list below. Of course our remit of services is not limited to this list, but it helps to provide a good overview of what we cover under our engineering umbrella

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|  Booster systems (Installation, Repair, Servicing, Commissioning) |  Engineers (Dismantling) |
|  Boreholes (Water Supply) |  Entrance Matting |
|  Building Repairs & Improvements |  External Electrical Installations |
|  Building Services Installation |  Fans & Associated Plant |
|  Building Services Maintenance (M & E) |  Fencing Timber & Metal |
|  Circulating & Temperature Transfer (HVAC) |  Flooring General |
|  Combined Mechanical & Electrical Services |  Flooring Rubber, Plastic, Cork, Lino |
|  Compressed Air Installation |  Flooring Tiles |
|  Condensation Control |  Flooring Timber Hardwood |
|  Control Panels |  Fluid Transfer & Circulation |
|  Conveyors |  Freezing & Chemical Treatment |
|  De-Humidification System |  Gas Appliances |
|  Drain Clearing |  Gas Installations |
|  Drain Inspection (CCTV) |  Gas Pipeline |
|  Drain Lining & Trenchless Repair |  Gas Protection Systems |
|  Drainage Band |  Gas Ventilation |
|  Drainage Cast Iron |  Heat Exchanger & Cooling Tower Installation |
|  Drainage Deep Drainage Works |  Heat Pumps |
|  Drainage Tankers Drains & Sewers (Renovation) |  Heating Installation (Central- Gas) |
|  Drains & Sewers New Installations |  Heating Installation (Central – Oil) |
|  Ductwork |  Heating Installation (Central – Solid Fuel) |
|  Electric Motors (Power Supply) |  Heating Maintenance (Of All Above) |
|  Electric Motors (Rewinds & Bearings) |  Heating Systems |
|  Electrical |  Heating Under Floor |
|  Electrical (General Works & Services) |  Heating Warm Air & Direct Feed (Installation) |
|  Electrical Installations & Maintenance |  Heating Warm Air & Direct Feed (Maintenance) |
|  Emergency Call Outs |  Incinerators |
| |  Incinerators Plant |
| |  Installation of Steel Stairs |
| |  Insulation (Plant & Pipeline) |

Services overview Continued

 Irrigation & Water Systems	 Pipelines – UPVC/MDPE
 M & E Major	Pipework
 M & E Contractors	 Pipelines – CCTV Pipeline
 M & E Chemical & Petrochemical	Surveys
Works	 Pipelines Chlorination &
 M & E Heat Exchangers & Coolers	Sterilization
 M & E Sluice & Lock Gate	 Pipelines Pipe Freezing Repair
Installations	 Plumbing
 M & E Supply & Installation of	 Plumbing Temporary Site
Cables	 Plumbing Tube Conveying
 M & E Ventilation & Odour	Systems
 Machinery Removals	 Pressure Vessels & Tanks
 Mechanical Air Conditioning	 Pressurisation Units (Installation,
 Mechanical Electrical Repairs	Repair, Servicing, Commissioning)
 Mechanical Installation	 RPZ Valve Installation, Test &
 Mechanical Maintenance	Supply
 Mechanical Services Installation	 Pump Installations
 Mechanical Services Maintenance	 Pump Station Servicing
 Metal Fabrication	 Pumps
 Metal Fabrication (General)	 Rainwater Harvesting Systems
 Metal Fabrication (Sheet)	 Refrigeration
 Metal Louvres & Grilles	 Service Contracts
 Metalwork (Architectural & Black	 Servicing & Commissioning
Smith	 Sewage Plant Machinery
 Metalwork (Building General)	 Sewage Plant Operation
 Metal Flooring & Lock Gates	 Sewage Treatment Works (Civils
 Metal Stainless Steel Fabrication]	& Package Plant)
 Mezzanine Floors (Design &	 Sewerage Lining
Installation)	 Tank Cleaning
 Personnel M & E Engineers	 Tanking
 Personnel Site Engineer	 Waste Disposal Sewage
 Pipelines – Compressed Air	 Waste Stack Pipe Installation
 Pipelines – Fabrication	 Wastewater & Sewage Ejection
 Pipelines – Leak Detection	 Water
 Pipelines – Mechanical	 Water Coolers
 Pipelines – Petrochemical	 Water Features
 Pipelines – Pre-Insulated Mains	 Water Garden Services
 Pipelines – Pressure Testing	 Water Storage Tanks
 Pipelines – Steam Mains	 Water Treatment Plant
 Pipelines – Steel Pipelines	 Welding
	 Welding Equipment