PORT ENGINEERING SERVICES

INSPECTION, MANUFACTURE & SUPPLY

About Us

PORT ENGINEERING SERVICES (PES) HAVE OVER 50 YEARS OF COMBINED EXPERIENCE IN INSPECTION AND MANUFACTURE. PROVIDING OUR CUSTOMERS WITH ENGINEERING SERVICES AND SOLUTIONS WORLDWIDE.

Our in-house design facilities provide our clients with cutting edge 3D design and simulation capabilities allowing the "What if" scenarios to be tested at design stage, prior to manufacture. Allowing changes to be conducted prior to early design, ensuring you receive the best product specifically suited to your requirements with reduced lead times.

OUR EXPERTISE

Our team are extremely competent with regular maintenance inspections of in-service equipment and the ongoing requirements for Non-Destructive Testing (NDT). Including Magnetic Particle Inspection (MPI) and Ultrasonic to establish a firm understanding of what is happening to your structures.

Following any consultation, we provide knowledge and skill set to ensure that all of the required stages of any project are met and completed in the correct manner. This provides assurance and confidence to the duty holder of such equipment that the equipment is suitable to be used once again.

UKAS ACCREDITATION

PES is accredited by the United Kingdom Accreditation Service (UKAS) as meeting the requirements of ISO/IEC 17020:2012 and the maintenance of this accreditation remains an essential part of the business plan.

We retain responsibility for ensuring impartiality is maintained throughout the inspection process and the other activities it is involved in. Operating as a type C independent inspection body, impartiality is paramount in maintaining our accreditation.

The UKAS accreditation recognises that our company is competent to perform specific processes, activities or tasks which are detailed in our scope of accreditation which can be viewed on the UKAS **website**.

UKAS INSPECTION

4674

Our Strengths and Capabilities

PES and their team are committed to providing a professional and comprehensive package of services for all your engineering demands.

Our aim is always to deliver quality, excellence and professionalism and we are always happy to attend your site or assist in your requirements no matter how big or small.

INSPECTION

3RD PARTY INSPECTIONS
LOLER INSPECTIONS
ONLINE REPORTING
PUWER INSPECTIONS
RAIL INSPECTIONS & REPAIR
THOROUGH INSPECTIONS

DESIGN & MANUFACTURE

AUTOCAD
FABRICATION
FEA
MACHINING
SOLIDWORKS

TESTING

DYE-PENETRANT
MAGNETIC PARTICLE INSPECTION
NON-DESTRUCTIVE TESTING
PROOF LOAD TESTING
RAIL INSPECTIONS & REPAIR
ULTRASONIC

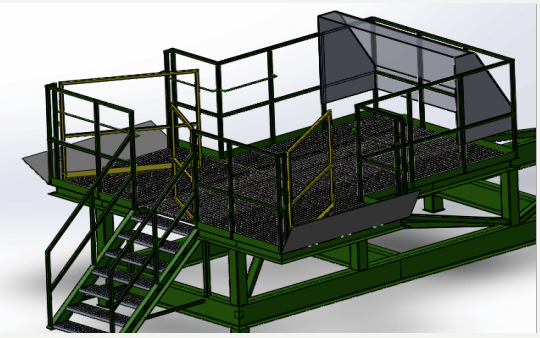
CONSULTANCY

ACCIDENT INVESTIGATION
AUDITING
CDM PRINCIPAL DESIGNER
HEALTH AND SAFETY
NEW BUILD

Want to know more? **GET IN TOUCH**

Our Bespoke Products

We design, manufacture and supply bespoke products. Ranging from twistlocks, sheaves and gears ensuring maximum safety and peace of mind.



Lifting Frames

Our lifting frames are provided with a full technical file, self CE certification and instruction manual following the specific proof loading testing after final design and manufacture to ensure your design frame is suitable for its requirements.

Gantry Wheels

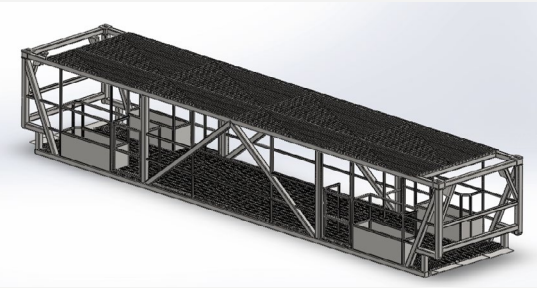
We supply and manufacture trolley wheels through the use of enhanced materials for all types of cranes. Our gantry wheels provide an extended life cycle to your asset.

Gears

Through the use of speciality manufacturing facilities and precision grinding CNC (Computer Numerical Code) machinery, we have established an excellent reputation for the design manufacture and supply of all types of gears.

Man Cages & Overheight Frames

We provide specific design 20ft, 40ft and 45ft man carrying safety cages for the use in your port industry. These cages have undergone extensive safety due diligence and are extremely robust in manufacture, providing maximum safety efficiency for your port and operators.



Sheaves

In most cases, we provided the technical know-how and consultation during design stages to understand our customers' requirements and to provide enhanced sheaves and extended life through the use in many cases of flame hardening to the rope groove.

Trolley Wheels

We supply and manufacture the use of enhanced materials for all types of trolley wheels. Our trolley wheels provide extended life cycle to your asset.

Twistlocks

Our reputation in Twistlocks extends internationally in the design, manufacture and supply of all types of Twistlocks. We design, manufacture and own our own upset forging tooling to supply blank forges for in-house manufacture to a specification greater than the British Standard requirements. Our blend of unique materials enables our Twistlocks to withstand great forces and excellent life cycle duty.

Want to know more? **Get in touch**

Inspection

PES provides consultancy and engineering expertise for crane and lifting equipment in Ports and Harbours around the world.

We have particular knowledge of UK Health and Safety requirements and British Standard Crane specifications. Our team has considerable experience in the installation and commissioning of both new and refurbished quay cranes and other lifting equipment.

Our services include:

Inspection Services

- 3rd Party Inspections
- LOLER Inspections
- Online Reporting
- PUWER Inspections
- Rail Inspections & Repair
- Thorough Inspections

3rd Party Inspections

Our extremely competent engineers, assist by providing technical on-site support and auditing during the crane build at your chosen Original Equipment Manufacturer (OEM).

LOLER & PUWER Inspections

Thorough examinations include structural, mechanical and electrical inspections governed under LOLER and PUWER regulations. At PES, we are a UKAS Accredited inspection body, who are authorised and can carry out these in-service inspections.

Online Reporting

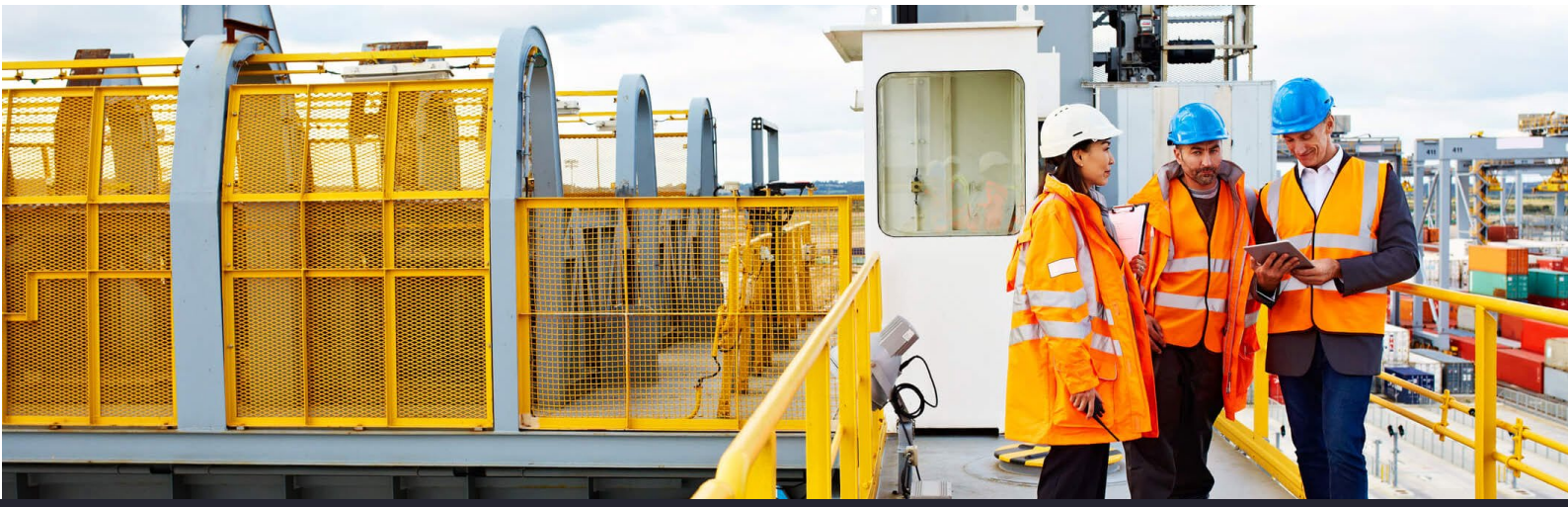
PES have developed an online report system that provides our clients with their own protected log in details bespoke to their own reports, LOLER certificates, safety bulletins and more.

Rail Inspections & Repair

PES understand the issues commonly experienced with deformed and worn rails and the adverse effects this can cause on your operations. Having extensive experience in cranes and associated rails, trolley rails and gantry rails, we are well versed and familiar with the characteristics of rail alignment requirements.

Thorough Inspections

Experts in Thorough inspection of your crane or equipment on a periodic basis is usually undertaken between 3 to 5 years periodically for the life of the equipment. This is to conduct an in-depth inspection to detect any defects from a structural, mechanical and electrical perspective.



Want to know more? **Get in touch**

Testing

Through continued use and cyclic loading of your equipment, it is recommended that regular Non Destructive Testing (NDT) should be carried out. It may be appropriate to use certain NDT techniques to assess the integrity of components.

These techniques can assist in the detection of any material crack or defects that might grow in service and ultimately lead to failure. NDT techniques should only be carried out by adequately trained and experienced personnel and to a written scheme of examination. We at PES can provide multiple NDT techniques from our in-house technically trained and certified personnel.

Testing Services

- Dye-Penetrant
- Magnetic Particle Inspection
- Non-Destructive Testing
- Proof Load Testing
- Rail Inspections & Repair
- Ultrasonic

Our services include:

Magnetic Particle Inspection

Our highly qualified in-house inspection engineers use the latest MPI equipment, working towards UKAS Accreditation for NDT services. Providing assurance that our inspection services are in-depth and detailed, giving our customers' a second to none service.

Ultrasonic

We have highly qualified inspection engineers using the latest SonaTest Ultrasonic equipment. Currently working towards UKAS Accreditation for NDT services.

Non-Destructive Testing

Through continued use and cyclic loading of your equipment, it is recommended that regular NDT should be carried out. We at PES can provide multiple NDT techniques from our in-house technically trained and certified personnel.

Proof Load Testing

The British Standards and current Legislations imply that you are required to undertake the necessary tests to ensure any major mechanical or structural maintenance or repair to your lifting devices are suitable and safe with adequate strength before being placed back into service. This element must be undertaken by a suitably qualified independent person.

Want to know more? **Get in touch**

Consultancy

Working as a consultant is known to be a challenge and also rewarding, as it is established that you're an expert in a specific field.

PES is often commended for their expertise and fluid understanding of client requirements from brief. Our field of experts will work closely through your project ensuring no stone is left un-turned.

Our services include:

Consultancy Services

- Accident Investigation
- Auditing
- CDM Principal Designer
- Health and Safety
- New Build

Accident Investigation

We have the ability to undertake an assessment to find the root cause following an incident with your equipment.

Health and Safety

PES is committed to focusing on our customers' needs and exceptions by delivering impartial, confident and transparent services. Through the use of our in-house Chartered Health & Safety personnel.

Our attention to health and safety is not just about being socially responsible, it also makes good business sense and you should regard it as just as important as the achievement of any other key business objective.

New Build

We offer our consultancy services to all of our clients on a global scale in assisting them with any new build; from brief, through design to manufacture.

Want to know more? **Get in touch**

DESIGN & MANUFACTURE

Our in-house within cutting-edge design facilities and expertise coupled with the use of the latest design and analysis software allow PES to design bespoke products from brief to concept to final manufacture with ease. PES offer these services on a global scale and are known for their excellence and problem-solving experience through design and calculation techniques.

Once your product is designed and simulated within our design studio, then the start of manufacture is effortless, minimising long lead times and final delivery of your product.

Design & Manufacture Services

- Autocad
- Fabrication
- FEA
- Machining
- Solidworks

Autocad

We constantly excel customer requirements for the design of bespoke handling equipment, from concept or brief, through design to manufacture and supply.

Fabrication

We combine our in-house technical and engineering expertise to consistently supply top quality bespoke fabricated components.

FEA

Our in-house excellence allows us to verify structural calculations and suitability of design prior to manufacture.

Machining

Utilising Computer Numerical Control (CNC) machine centres, vertical borers and cutting-edge lathe centres, we can reverse engineer, design new componentry and machine to precision in minimal time.

Solidworks

It's a 3D Finite Element Analysis (FEA) design and simulation programme which allows on screen testing of any design prior to manufacturing, allowing you to save time and reduce costs.

Want to know more? **Get in touch**

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Our global network offers a wealth of knowledge on specialist engineering services and consultancy to ports and harbours, big or small. Our head office is based in the UK however we have a team of highly skilled and competent inspection engineers, supporting the port industry on a global level.

Visit Us: www.portengineeringservices.com

Email Us: info@portengineeringservices.com

Call Us: +44 (0) 191 523 8877

Connect With Us: