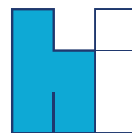




ELECTRO MECHANICAL INNOVATION IN

Industrial and Manufacturing



Houghton International
Electro mechanical innovation



Houghton International

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Houghton International
Electro mechanical innovation

Industrial and Manufacturing

Houghton International improves the performance of electro mechanical assets around the world. We use our technical expertise to work with customers to solve their problems offering a high-quality monitoring, maintenance, repair and life extension service for motors, generators, pumps and all electrical rotating equipment.

With a focus on asset reliability and improving performance, we work with engineers across the UK to provide a quality, cost effective and reliable service 24/7.

We support customers in the industrial and manufacturing sectors via ongoing monitoring and maintenance contracts and emergency repairs.

More than a standard overhaul, as standard...

Houghton International supports maintenance teams across the UK to maximise plant efficiency and reliability whilst minimising machine downtime and cost, providing ongoing monitoring, maintenance and emergency repairs.

Specialising in overhaul, repair and life extension, our high-quality electro mechanical repair shop offers mechanical and electrical repairs to a broad range of equipment including AC and DC motors, pumps, gearboxes, generators and turbines.

Our experienced team of multi-skilled electro mechanical engineers are familiar with industrial environments and operating conditions, servicing a broad spectrum of customers across both manufacturing and service industries, supporting fault diagnosis and in situ asset optimisation via laser alignment and bearing analysis.

Work is carried out on customers' premises, by our fully qualified site service team, or in house in our specially designed workshop. We operate a 24 hour call out 365 days of the year to ensure we are always available when needed and carry out critical repairs on an emergency basis, working around the clock to ensure the plant is fully operational when it's needed most.

With the lifecycle cost of the asset a key factor, monitoring and preventative maintenance services are utilised to plan maintenance, maximising ROI and helping to prevent costly breakdowns that result in emergency outages.

Accredited to the latest standards and with one of the largest burn off stoves in the UK, our dedicated large machine repair shop offers up to 40 tonne craneage, 5m x 6m access and a 13m (42ft) working height. Combined with our in house coil manufacture facilities and dynamic motor and pump load testing capabilities we are ideally placed to service the full spectrum of rotating machines operated in industrial and manufacturing industries.

From a standard 3.3kV overhaul to a full rewind of a multi stage pump and motor, our diverse range of operations enables customers to engage one supplier to service their full array of equipment benefiting from improved efficiency and increased accountability.

A large industrial motor is shown in a workshop setting. The motor's stator is open, revealing a series of red-painted copper windings arranged in a circular pattern. A central shaft with a bearing is visible. A technician in a dark blue uniform is working on the motor, holding a red wire. The background shows industrial equipment and lighting.

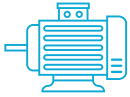
KEY INFORMATION

- Multi service offering covering all electro mechanical assets
- Monitoring, maintenance and life extension services
- Experienced team of multi-skilled electro mechanical engineers
- 24/7 emergency repair service, 365 days a year
- Fully equipped, industry accredited facility
- Certified site services team



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№ 2



Electric Motors

Our electric motor repair and motor rewind services cover a wide range of AC and DC electric motors, including random wound stators and armatures, and non-standard soft coil and preformed high voltage coils for a range of applications.

From standard to more specialist motors, we have experience in the repair, overhaul and life extension of industrial electric motors, including hazardous area equipment (Ex), both in our workshop and in situ, up to 50MW and 40 tonne.



Pumps

We have a team of experts in pump repair and maintenance to help extend the life of pumps and associated ancillaries for industrial use.

Our engineers excel on complex projects where obsolescence is an issue and can reverse engineer failing pump parts, restoring and often improving the performance of aged machines to increase efficiency and reduce running costs. All pumps are fully tested, providing performance analysis and pump curves as required for added assurance.



Generators

We offer mechanical and electrical repairs to a broad range of generators including induction generators, slip ring generators, synchronous - salient pole generators, steam or combustion turbines and generators for industrial application, up to 50MW or 100MW for turbo-alternators.

Our site services include, inspection, testing and fault diagnostics including air gap checks and partial discharge testing, equipment removal and generator installation and commissioning.



High Voltage Coils

Manufactured in house, we offer a range of resin rich and global VPI insulation systems for industrial, power generation and specialist applications. With absolute control over quality, we manufacture stator, armature, field and rotor coils for all types of motors and generators up to 15kV, in diamond and concentric designs.



24 Hour Emergency Repair

We operate a 24 hour call out 365 days of the year and offer an emergency repair service, with engineers working around the clock to restore functionality of critical motors.

We understand time is money for our customers and we work alongside them to solve their problems, efficiently and effectively in the shortest timescale possible.



Gearboxes

Utilising a comprehensive range of in house machining facilities, our mechanical fitters provide maintenance, repair and refurbishment services for gearboxes and associated equipment. From fault diagnostics to the removal, reconditioning and refitting of the complete power transmission system. We overhaul and upgrade all types of industrial gearboxes including bearing and seal replacement and the manufacture of new shafts and gears.



Electro Mechanical Site Services

Our engineers carry out on-site essential maintenance services including brush and bearing changes, motor replacement, mechanical and electrical installation work, laser alignment, dynamic balancing and condition monitoring to support our customers maintenance requirements.



Other Electrical and Mechanical Services

Making use of our fully equipped machine shop, 3D CAD and design capabilities, range of specialist equipment and highly skilled staff, we support industrial and manufacturing engineers by offering reverse engineering of obsolete parts, tool making, dynamic balancing, VPI and welding.



Working with Houghton International

We work collaboratively with customers in the industrial and manufacturing industries to improve performance and reliability by solving complex engineering problems and extending the life of electro mechanical assets in their facilities.

As specialists, we have invested in industry-leading technologies and patented solutions to eliminate failures, improve reliability, increase lifespans, and significantly reduce cost and frequency of unplanned maintenance activities.

Innovation drives our business and we are committed to continuous improvement both to internal processes and customer service. We aim to solve our customers problems and add value through innovation.

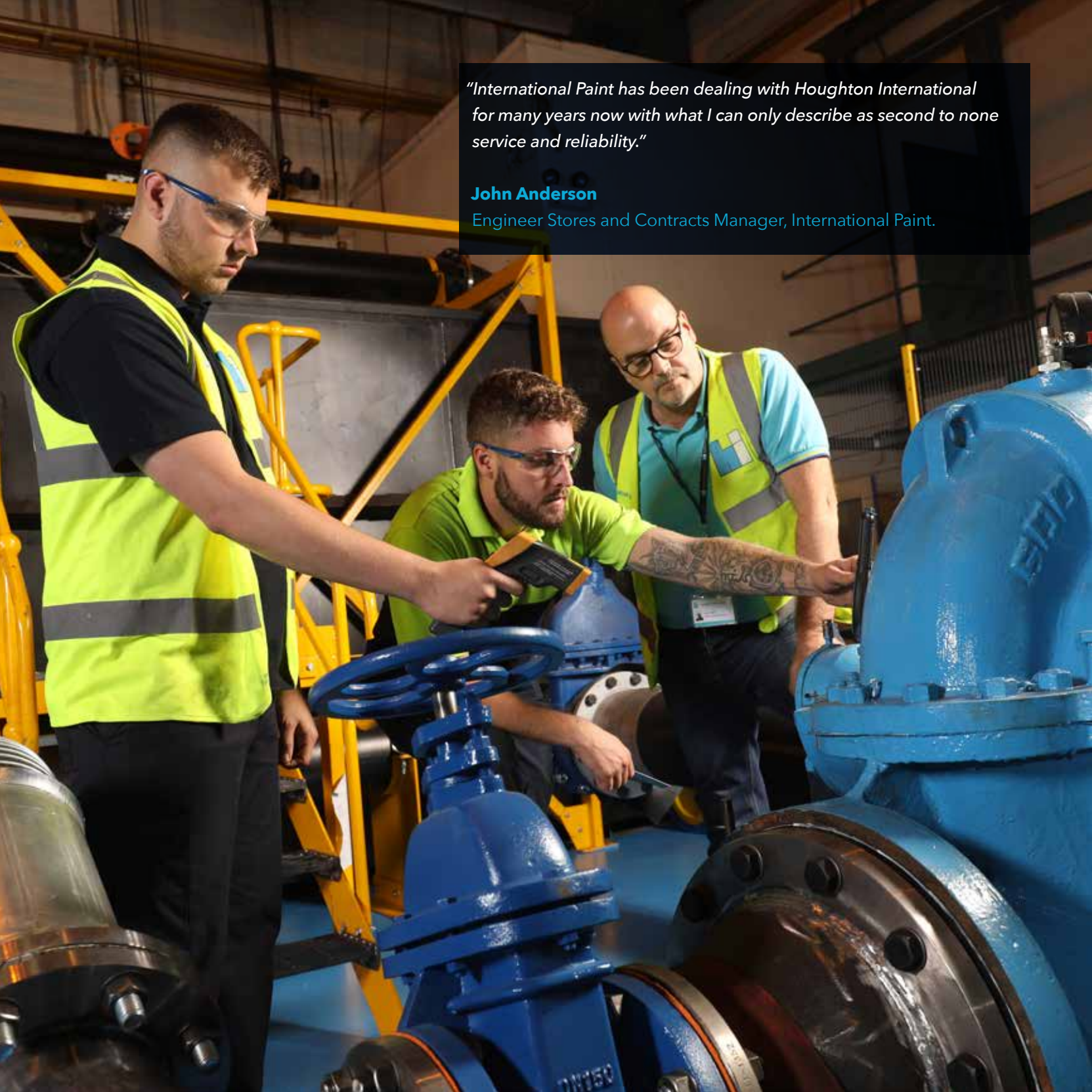
Quality Assurance

Houghton International operates in sectors where quality procedures and the safety of equipment are critical. As such, we have developed a rigorous quality policy with processes and procedures to ensure that everything we do is of the highest standard.

These policies and procedures are reviewed across all areas of our business on an on-going basis, which reflects our culture of continuous improvement. We continuously invest in our plants and machinery and the training of our staff to guarantee a high-quality process.

Contact us on +44 (0)191 234 3000 to find out more or visit www.houghton-international.com



A photograph showing three industrial workers in a factory setting. They are wearing safety glasses and high-visibility vests. One worker is using a handheld device, possibly a scanner or tablet, while the others look on. They are working on large, blue industrial machinery with prominent handwheels and flanges. The background shows yellow structural elements of the facility.

"International Paint has been dealing with Houghton International for many years now with what I can only describe as second to none service and reliability."

John Anderson

Engineer Stores and Contracts Manager, International Paint.

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