



INTECH
ENVIRONMENTAL

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WHO WE ARE

Our foundations were laid in 1995 by working class industrial cleaners who had vast experience within the coal fired power generation industry. Fast forward to today, and Intech Environmental Limited has developed into one of the UK's leading **industrial cleaning, confined space rescue and rope access** companies, with a depth of understanding and experience that differentiates us from our competitors.

Today, we work with clients across a broad range of industries including **energy from waste, foundries and steel mills, pulp and paper mills, food and agricultural processing, water treatment facilities, and general engineering and industrial environments.**

Our employee base includes experienced IRATA certified professionals (Industrial Rope Access Training Association). All of our employees hold Safety Passports and Confined Space Entry permits.

Our future, by transitioning from a 'service provider' to a 'solutions partner' continues to grow in a sustainable and responsible manner. Structured and strategic investment in plant, people and the environment is part of our strategy, supported by our core values which **DRIVE** our daily behaviours to become part of our DNA:

Dedication	to deliver our promise on time and in full
Respect	embracing openness, trust, teamwork, diversity and relationships that are mutually beneficial for our colleagues, clients and culture.
Integrity	ensure the integrity of our most important assets, Our People, is never compromised
Value Creation	creating value for our client
Excellence	in everything we do

Our client's needs remain at the heart of our service scopes. Highly client focused, we deliver our promise on time and in full.

"Large enough to deliver, Small enough to care"

WHAT WE DO

- 4** Services / Industries
- 5** Health & Safety / Accreditations / Certifications
- 6** Disab Vacuum Services
- 7** Tanks, Vessels and Silo Cleaning and Maintenance
- 8** High / Ultra High Pressure Water Jetting
- 10** Surface Preparation and Abrasive Cleaning
- 11** Confined Space Supervision, Management and Rescue
- 12** Rope Access and High Level Works
- 14** Mobile Filter Press Hire and De-watering Service
- 14** Drain and Sewer Cleaning
- 14** Tankering Services
- 15** What our Clients Say...



Our client's needs remain at the heart of our service which is why we take the time to fully understand your requirements.

To do this we offer a free site visit and consultation service.
Call us on 01724 279007 to arrange.

SERVICES

DISAB Vacuumation



High Pressure Water Jetting



Tank and Silo Cleaning



Surface Preparation



Confined Space Rescue



Rope Access



INDUSTRIES

Power Plant



Energy from Waste



Steel Plant



Water Treatment Plant



Food/Agricultural Plant



Foundries



Engineering/Industrial



HEALTH AND SAFETY

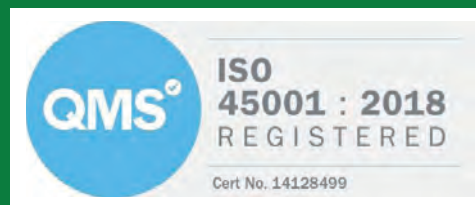
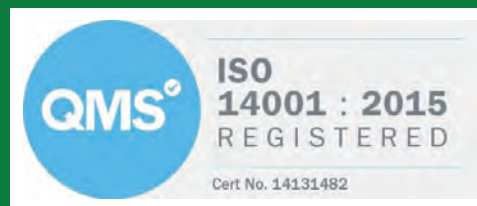
Intech Environmental Limited takes health and safety very seriously and are committed to developing a proactive safety culture across the full range of our activities.

We recognise our responsibilities and commitment to health, safety and environmental management. We deliver a safe and efficient client service through experience, commitment, professionalism, integrity and technical expertise. It is our responsibility to provide the safest possible working conditions for our employees and for those we work with.

Our employees operate extremely high standards of Health & Safety whilst working on your site, complying with current HSE legislation including Lifting Operations and Lifting Equipment Regulations (LOLER), and Provision and Use of Work Equipment Regulations (PUWER).

Our objective is to achieve and maintain accident free operations as part of a quality system (ISO 9001, 14001 and 45001) designed to enhance efficiency, productivity and commitment to our clients and employees.

ACCREDITATIONS / CERTIFICATIONS



DISAB VACUUM SERVICES

With over 25 years' experience in the vacuum service, our fleet of vacuum equipment is regarded as the most diverse and largest privately owned fleet in the UK. This gives us the ability to remove and recover products from some of the most challenging environments, with the added bonus of no environmental release which would be presented by standard manual or pneumatic cleaning.

Whether you have wet or dry product, the Disab has a high volume suction capacity with a telescopic flexible boom system, which allows the lifting and collecting of a wide range of products both horizontally and vertically.

Ideal for dry products such as

- APCR (ash)
- Biomass products
- Powder (from fine to granular)
- Various aggregates
- Blockages

and wet products including

- Sediments
- Sludge and slurries
- Filter cake

Our vacuum units range from 4" to 10" capacity, static to lorry mounted and with the addition of the following abilities, add to a proven method of cleaning:

- Suck and pneumatic conveying of recovered product
- Product change aiding
- Bulk bagging plants
- Pressure discharge delivery



For products that cannot be bagged directly by our mobile Disab tip system, we can provide a mobile bagging hopper that can be deployed direct to your site. We can vacuum your spillage or product, and transfer it through to our mobile bagging hopper system and into 1M³ bags for future use or disposal.

We provide highly comprehensive method statements and risk assessments for each project.

TANKS, VESSELS AND SILO CLEANING

Our experience in industrial cleaning of all types of storage tanks, vessels and silos, means we are fully aware of the risks involved in working both at height, and also in confined spaces.



To reduce the need for people entering one of the most hazardous areas in a facility, we added the Bin & Gyro Whip to our equipment.

BIN & GYRO WHIP

The Gyro Whip is operated remotely from the silo roof, and materials are cleared using rotary cutters or brushes, dependant upon the material to be removed. The motor is powered using compressed air, is completely manoeuvrable, and because it can be put together quite quickly, proves to be a very cost-effective solution. The material simply falls to the bottom of the silo for easy removal by our Disab vacuumation process.

In certain circumstances the Gyro Whip may not be a suitable option, for example, where there is a bridged blockage. We have encountered a wide range of bridged blockages over the years and have the expertise and equipment to keep you on line and reduce production down-time. In these scenarios we can provide a cost-effective silo cleaning service anywhere in the UK with our dedicated confined space entry and rescue trained personnel.

HIGH / ULTRA HIGH PRESSURE WATER JETTING

High Pressure Water Jetting is ideally suited to general deposit cleaning and removing coatings and surface preparation. When preparing surfaces for inspection or new coatings, water jetting offers many advantages over traditional shot and grit blasting (such as no secondary damage, contamination or profiling), and is safer, quicker, cleaner and more versatile.

Intech Environmental Limited are specialists in High / Ultra High Pressure Water Jetting. Our reputation of delivering on time, within budget in a safe and sustainable way makes us a UK market leader in this discipline.

Our highly skilled and experienced jetting crews are working with pressure ranging from 200 psi to 18000 psi. Our large fleet of pumps can clean most contaminants with particular emphasis on heavy industrial applications such as:

- Boilers
- Steam drums
- Storage tanks
- Economiser banks (tube and fin elements are particularly well cleaned without the risk of damage from high pressures)
- Heat exchanger / tube bundles
- Digester tanks and vessels
- Anaerobic digester plants

For more intense jetting requirements we can also provide Ultra High Pressure Water Jetting up to 40,000 psi. This has proved successful where refractory removal has been required.

High Pressure Water Jetting is a high risk activity and as such Intech Environmental has developed a single operation jetting system, which benefits from:

- Lightweight, modular design for single operator use
- Slot and rail, direct drive technology
- Independent control of forward and reverse feed rate, enable operator to set dwell time for optimal cleaning
- Rail length is easily customisable to match the size of job
- Installed on its own modular frame to suit size and dimensions
- Adaptable to clean various types of boilers



HIGH PRESSURE WATER JETTING IN CONFINED SPACES

Whilst we aim to clean without the need for confined space entry, where man-entry into confined space is required, safety is always our main priority. Our skilled operators use the latest protective equipment, receive ongoing training and undertake regular medical checks.

Intech Environmental Limited are members of the Water Jetting Association, and all of our operators are highly trained and experienced in accordance with the WJA.

We provide highly comprehensive method statements and risk assessments for each project.

Tube Cleaning

At Intech Environmental Limited we are experienced enough to understand that tubes are entirely different from pipe cleaning. Tubes are smaller and tightly clustered together to form bundles or banks. We use a range of high pressure pumps combined with specialist jets to unclog tubes to keep the production and heat transfer efficient. The requirement to clean can occur through deposits being laid in water treatment process and corrosion in areas such as:

- Heat exchanger
- Fin – fans
- Economiser tube banks
- Header pipes
- Superheaters



SURFACE PREPARATION AND ABRASIVE CLEANING

We cover every industry from Steel and Pharmaceutical, right through to Energy from Waste. We offer a complete turnkey solution for each project, creating a tailored plan as either a one-off clean or a scheduled maintenance service.

Shot Blasting

Surface preparation to BS EN ISO 8501-1 SA 1.0 / 2.0 / 2.5 / 3.0

Shot blasting is ideal for steel and ferrous metals ready for inspection, or deep clean. Our teams have extensive experience which allows them to deliver in a safe and timely manner regardless of the size of project.

Dry Ice Blasting

Dry Ice Blasting is an industrial cleaning process in which particles of solid carbon dioxide are propelled at high velocities to impact and clean, but not remove a surface. No other form of industrial cleaning is as versatile as dry ice blasting for decontamination solutions.

- Cleans without surface erosion
- Dramatic savings in man hours and personnel exposure to hazardous chemicals
- Eliminates potential damage to machine parts
- Eliminates secondary waste streams
- Reduces downtime with minimal disassembly
- Eliminates blasting media entrapment and drying time
- Eliminates electrical and bacterial problems
- Reduces overall cleaning time

We have successfully applied this discipline in the following roles:

- Turbine rotor and blade cleaning
- Electrical motor cleaning
- Fan cleaning and within the food manufacturing industry

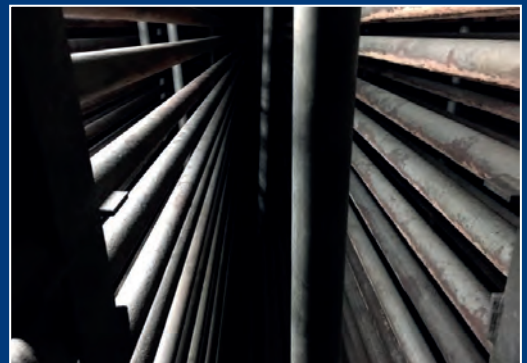
Grit Blasting

We can provide a complete Grit Blasting solution for plant maintenance and major shutdowns.

- Boiler Inspections
- NDT Inspection
- Inconel Overlay Cleaning

Utilising medias such as:

- Garnet
- Iron silicate
- Olivine
- Crushed glass
- Crushed walnut kernels



subject to application and environment

CONFINED SPACES SUPERVISION, MANAGEMENT AND RESCUE

The Health & Safety at Work Act 1974, specifically regulation 5 of the confined space regulations (emergency arrangements), makes it clear that reliance on the emergency services alone is not sufficient enough to comply with the Confined Space Regulations 1997.

Intech Environmental Limited specialise in providing confined space cover and rescue. We pride ourselves on our ability to provide a safe, cost-effective solution for all confined space requirements especially within difficult and restricted access, anywhere around the UK. Our aim is in keeping all working parties safe and free from harm.

All of our employees are trained in Confined Space Entry (High Risk Level 3), which is the highest level of training, to ensure that we always have highly trained and experienced technicians available for our clients, and these teams have you covered regardless of the environment and task.

Where possible, we will work with your own teams where training and skill-set allows.

When you need experienced and adaptable solutions our highly skilled employees:

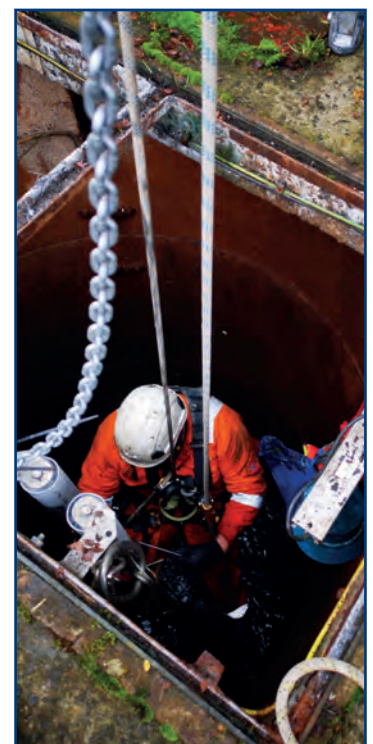
- Have extensive certification in rescue and recovery of casualties from confined spaces
- Regularly train in casualty recovery using a range of confined space equipment and scenarios
- Have current first aid at work certificates
- Are fully trained in the use of oxygen resuscitators and defibrillators

Services available from us:

- Confined space identification and classification
- Bespoke rescue cover packages and plans
- Top man / hole watch
- Confined space management
- Preparation of SSOW

Our technicians utilise the following Intech equipment, (subject to application and environment):

- Access equipment | Harnesses
- Environmental monitoring equipment
- First aid kits | Oxygen resuscitators | AED defibrillators
- Rescue stretchers | Emergency escape breathing apparatus
- Personal lamps | Communication systems



ROPE ACCESS AND HIGH LEVEL WORKS

Intech Environmental Limited are specialists in providing fully certified and experienced IRATA (Industrial Rope Access Trade Association) technicians on-site around the UK for complete cleaning solutions, fall arrest netting, visual inspections, silos, vessels, tank cleaning and installation projects.

We operate using only the best technicians and ensure all of our technicians consistently adhere to the current regulations and industry work practices.

Safety is our number one priority.

Rope access offers quick and easy mobilisation which has been proven to be safer, more cost effective and less intrusive in comparison to traditional solutions such as scaffolding and MEWP which that can be both costly and time consuming.

The advantage of using rope access methods mainly lies in the safety and speed with which workers can get to or from difficult locations to complete the necessary work. This is often accomplished with minimal impact on the nearby area and on other operations that in some cases cannot be obstructed.

We can provide everything your business requires to tackle issues in the most restrictive areas of your facility or plant. The safe systems we use are quick, effective, easily mobilised and reduce downtime and labour costs significantly than other traditional access and egress methods.

Our multi-skilled rope access IRATA cleaning teams are experienced in providing specialist cleaning and maintenance services including

- Industrial Cleaning and Maintenance
- High Level Silo, Vessel and Tank Cleaning
- Fall Arrest Netting
- Visual Inspections and Safety Checks
- Specialist Coatings

By offering a turnkey project solution, we can save our clients time and money whilst continuing to deliver the highest of standards, safety and quality.



FALL ARREST NETTING

Intech carry out fall arrest safety netting to FASET (Fall Arrest Safety Equipment Training) standards, which is the only recognised industry body for safety nets in the world.

We carry out our works using all of the recognised means of installation and removal

- Remote device (long reach pole and clamps)
- MEWP
- Ladder
- IRATA Rope Access

Our core working practices follow the 3 pillars of a safety net system:

- Competent rigging
- Compliant products
- Comprehensive maintenance

Our highly skilled and directly employed technicians are able to carry out all safety net installations both inside and outside of buildings. All of our safety netting operatives are FASET, IPAF and IRATA qualified, and skill sets include NVQ qualified riggers, fall arrest riggers and qualified fall arrest netting inspectors. This means that we can carry out your job from start to finish. From site visit and consultation, providing an estimate, installation, inspection, certification and removal of safety netting, all from our directly employed teams.



VISUAL INSPECTIONS AND SAFETY CHECKS

Building owners and businesses are having to become more socially responsible and aware of the impact of maintaining their properties and sites.

Intech Environmental Limited works in partnership with all of our clients, and utilising equipment and skill-sets that we already have, help to improve your carbon footprint by reducing your dependence on scaffolding, downtime and labour costs.

AUXILIARY SERVICES

Mobile Filter Press Hire and De-watering Service

Our de-watering press is a mobile treatment plant. The de-watering process is taken from site (cake) and the reject water is immediately returned to the source. De-watering and waste reduction services are vital to our clients across all industries. This process saves time, reduces waste management, is environmentally friendly and reduces considerable costs.

Our mobile de-watering filter presses can be hired on either long or short term hire, being managed or on a self-drive basis.



Tank Cleaning

Intech Environmental Limited have many years' experience of cleaning all types of storage tanks. We can provide a cost-effective tank cleaning service anywhere in the UK with our dedicated confined space entry and rescue trained personnel. (Further details can be found on Page 11).

Drain and Sewer Cleaning

Our capabilities include providing a comprehensive cleaning service ideal for cleaning most pipelines and culverts. Whether you have problems with a blocked drain or require a full sewer clean, we can offer:

- HPWJ equipment suitable for any application
- Drains and culverts from 2" – 60" and larger are easily cleaned
- Alongside confined space rescue management identification and classification

Tankering Services

We offer a bespoke tankering solution for all types of industries around the UK. Our tanker fleet ranges from stainless and mild steel, to liquid ring, with a capacity from 1200-4000 gallons. Various tanker configurations allow us to tackle all waste and liquid removal issues you may have.

Our fleet consists of:

- Stainless steel barrels
- Tipping tanks
- Liquid ring pumps
- Mild steel tankers
- 4" – 6" inch inlets and outlets

In such a specialist area, Intech Environmental Limited's expertise is highly valued by our clients. After analysing your waste, we can advise you on suitable tanker services and provide support as you meet your legislative obligations.

WHAT OUR CLIENTS SAY

“ Intech Environmental Limited provided all cleaning, jetting and media blasting during our 2017 major outage which ran for 28 days. The services they provided during the outage were all delivered on time safely.

Intech Environmental Limited's service and input into this outage was key to the outage being delivered on time and safely and without their level of professionalism and the quality of work this would not have been achievable. **”**

ENERGY FROM WASTE

“ I thought I would just drop you a line to thank you and your crew for a job well done in cleaning our boiler and economiser. I will have no hesitation in using your team again providing the same standard of customer service is carried out. **”**

ENERGY FROM WASTE

“ I would like to thank you for your support during the Outage, please pass my thanks and appreciation on to the team, their performance has been excellent and has helped us to achieve our targets. **”**

ENERGY FROM WASTE

“ Having dealt with Intech for over six months, I've found them to have a workforce who have responded well to the fluctuating demands of industrial cleaning. Machinery and the workforce are reliable and issues quickly resolved if problems occur. **”**

STEEL PLANT

“ Your company are very reliable, very flexible, most competitive industrial cleaning company we use, I find the staff very helpful and extremely skilled at their disciplines **”**

INDUSTRIAL SERVICES PROVIDER TO Power Generation || Energy from Waste || Oil and Gas
|| Manufacturing || Nuclear || Refining || Automotive || Chemical

“ Being a recently commissioned waste to energy plant we relied on your technical advice and experiences to guide as to the best solutions to some of our industrial cleaning requirements. Intech offered an excellent service and I was impressed with the professionalism of the team on site throughout the duration of the work. Our operations team conducted regular working party monitoring of all contractors on site during the outage, and feedback on the Intech team was positive and it was reported they worked safely and complied with safe systems of work and our site safety rules at all times. Please pass on my thanks to the team and I look forward to working together on future projects. **”**

ENERGY FROM WASTE

“ We are a food processing plant and we were struggling with bulk flour silo cleans. The Intech team visited the site and a trial clean was planned. We have never looked back since. They now take care of our 3 silos and will soon be invited to complete more deep and high cleans around the plant. **”**

FOOD PROCESSING PLANT



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