

James Walker®

James Walker Joint Integrity Programme

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Material Safety Data Sheets (MSDS) are available on request.

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James Walker

Joint Integrity Programme



Evaluate | Design | Apply

High Performance Sealing Technology



James Walker Group



The James Walker Group is a dynamic global manufacturing organisation that supplies an extensive range of specialised sealing products and services to virtually every industrial sector.

The James Walker Group has in excess of 50 production, engineering, distribution and customer support facilities worldwide – supported by extensive IT networks, e-commerce systems and logistics operations – to serve customers in over 100 countries.

Amongst its world-leading areas of expertise are high performance sealing and bolting technology. To maintain this position in the global market, James Walker is committed to continuous R&D in materials and applications arenas, both in-house and field-based, with blue chip client organisations.



Keeping things together

James Walker is no stranger to the world of bolted joints and gaskets. In fact, we built our very considerable reputation on our ability to create innovative and intelligent methods of joining, sealing and keeping things together. Now we are going to the next logical stage; a service to make sure that, once joints have been formed, they stay that way; maximising uptime, reducing leaks and keeping expensive product loss to a minimum.

We call it the Joint Integrity Programme and its name describes exactly what it is intended to do; ensure all of your bolted joints remain intact with assured reliability.

Why is it needed?

In most mature economies, industrial installations such as chemical plants, refineries and even offshore oil and gas platforms have evolved over time. Old equipment is updated or replaced and new equipment added to keep pace with changing market demands and the need to comply with environmental legislation. Frequently, the result is a tangle of pipe-work and equipment from different manufacturers – and even different eras – bolted together.

For an Asset Manager, ensuring that all of these bolted joints remain intact and leak-free can be a nightmare. Shrinking workforces and fewer trained fitters means the focus of most maintenance schedules is on the large – and expensive – equipment on site. Bolted joints are sometimes a low priority when it comes to maintenance planning. In fact, it's only when they fail and expensive product is pouring down the drain that the value of tight, reliable joints is really appreciated.

The purpose of our Joint Integrity Programme is to re-align that focus.

The key elements



The Joint Integrity Programme approach - Evaluate, Design and Apply - is aimed at delivering long-term solutions where the cost benefits speak for themselves, as opposed to short-term fixes that need to be applied again and again, at considerable cost.

We recognise that no single solution will be applicable to everyone. The Joint Integrity Programme is made up of a series of modules that can be tailored to suit each individual client's needs and requirements. Some of these modules are outlined below.

- Leak Detection and Repair (LDAR) for vessels handling volatile organic compounds
- Tagging, data management and reporting
- Heat exchanger and pressure vessel bolted joint programme

Clients can choose a single service or a combination of services to best meet their needs.



Heat exchangers and pressure vessels

Heat exchangers and pressure vessels carry a high risk of VOC leaks. We will evaluate, report, and provide an engineered solution, which can include analysis, on-site measurement, machining, dismantling, the installation of products and components and ongoing, on-site support. By choosing a tailored solution, you can:

- Increase production levels
- Reduce downtime
- Cut maintenance costs

Data management and reporting

A crucial part of the James Walker service is the collection of data from the client's site. This is then used to produce reports which can support their IPPC application and their business in general.

LDAR (Leak Detection and Repair)

Our LDAR service helps you to manage fugitive VOC emissions at oil, gas and chemical sites. We monitor all piping components, flange joints and valves to EPA Method 21, then record and track VOC emissions.

This data is then used to schedule repairs and carry out maintenance or refurbishment work.

This can be supported by regular site audits to ensure the lowest possible emission levels.

There are many benefits of LDAR, some of which are:

- Reduce your operating costs
- Improve your environmental performance
- Enhance safety for your on-site operatives

A World of Expertise



The Joint Integrity Programme combines the expertise of James Walker Group companies such as James Walker, James Walker Moorflex and James Walker RotaBolt – coupled with the unique benefits, where applicable, of alliance partners such as Sparrows Offshore, with their specific on-site skills and experience.



- James Walker leads the field in fluid seal development and materials science - providing global industry with products of unrivalled quality. A standard range of over 200,000 gasketing & sealing products, and an off-the-shelf inventory of 10 million stock items is enhanced by the ability to design and fabricate custom seals for specific duties.
- James Walker Moorflex was created by merging Moorside and James Walker Metaflex - two James Walker Group companies which bring together over 100 years' experience of gasket sealing technology. As well as one of the most comprehensive ranges in the gasket industry, the company offers a 24 hour emergency breakdown service around the world.
- James Walker RotaBolt's range of tension control products provides finger-tip, visual or remote measurement of tension throughout the life of bolted joints; ensuring each bolt is tensioned to the correct level to assure the integrity of the joint. Coupled with our pre & post installation support and technical expertise, Rotabolt delivers industry leading solutions.

This combination enables us to provide an unrivalled level of expertise and experience in a complete package of joint engineering services:

- On site audits and condition reports for all the flanged and bolted connections on a site – whether on or off-shore.
- Planned Preventative Maintenance (PPM) for all kinds of static sealing applications plus high pressure high temp ring joints used in oil and gas and similar applications.
- Remedial and leak detection operations to stop leaks at source, including on site machining and joint engineering such as flange facing up to 4m diameter; pipe cutting and prepping up to 1.06m diameter; drilling; boring and milling.

More specifically, it means that, whenever we can, we will predict and prevent leaks. On those occasions when we are unable to prevent them, we will respond rapidly and expertly to prevent a crisis developing into a catastrophe.