



Increasing user profit margins

How iQ can support users in increasing profit margins

Reduce safety risks and costs

Our iQ software primarily supports our clients in the reduction of risk to safety. However, in an increasingly cost conscious environment, it can simultaneously support cost reduction across a wide range of areas.



Loss of primary containment

Using accurate bolt loads and following the correct flange management process are just two elements in reducing loss of primary containment.

However, any release has such a massive impact on the environment, company reputation, production, rework, etc., that any investment to mitigate the risk of elements under the operator's control will yield large savings.



Asset downtime

Overrun in construction projects or shutdown situations generate huge costs.

Conversely, reducing time scales can attract large savings. Proactively using iQ to prepare and manage the flange management of any campaign can help to ensure that schedules are met. Additionally, providing users in the field with the ability to make instant and safe decisions when unpredicted events occur (e.g. a failed leak test) can prevent further slippage.



Company standard bolt tables

Many operators create their own bolt load tables for use on their assets. However, the issuing of static, hard copy documents includes some inherent risks (how they are distributed, misinterpreted, revised, diluted, and become outdated to the latest industry best practice).

In addition, tables can only cover a relatively small number of flange, gasket, bolt, and lubricant combinations before they become unmanageable. These rarely cover all those found on an asset, let alone those identified on vendor skids or inherited assets.

The static nature of tables also precludes the capability to quickly assess a revised bolt load in the event of modifications being made (e.g. a failed leak test).

Our iQ software not only has the capacity to cover all potential component combinations, it also allows the user to quickly assess any given bolt load scenario, all in line with latest industry standards. Therefore, all an asset's flange eventualities are covered, removing the risk of technicians making inaccurate and unsafe approximations for bolt loads.



Damage to flange components

In the battle to reduce leaks, tightening flanges using outdated methodologies can cause hidden damage and huge cost to components.

iQ provides users with easy-to-use visibility of the impact on components, whilst not compromising the effective sealing of joints.



Latest industry best practice

Keeping on top of the latest best practices in the increasingly dynamic area of bolted joint integrity necessitate subscribing to numerous industry standards and bodies.

It also requires attending events and obtaining a deep working knowledge of a very specialised area of engineering. We ensure that the iQ is continuously updated to reflect the very latest industry information. In turn, iQ users are assured they are compliant, whilst mitigating the risk of hydrocarbon release and component damage.



Engineering calculations

Even with the support of internal spreadsheet based solutions, carrying out complex bolt load calculations is both time consuming and subject to error, whilst outputs can be difficult to distribute easily.

iQ users have saved innumerable man hours carrying out sophisticated calculations and scenario-testing across a staggering number of variables to identify the optimum solution.

All calculations can be securely stored online, allowing instant retrieval and review. Additionally, calculations can be distributed efficiently to colleagues or contractors, either through iQ Project modules or simple output reports.

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External consulting

Even many large engineering teams do not carry specialised expertise in the area of bolted joint integrity.

iQ is designed to enable users to easily access our knowledge and industry best practice and instantly receive guidance that would previously necessitated the use of costly external consultants.



Information search

Searching for and retrieving critical flange data can quickly burn numerous man hours and may lead to errors when quick solutions are required.

iQ acts as a secure online repository for all joint related information and documents, accessible by all authorised users 24/7/365 from any location.



Tightening tool selection

iQ provides the user with the capability to select from the industry's largest inventory of torque and tension tools to achieve the required bolt load.

Helpful and clear guidance on each individual tool's capacity enables the user to create the most effective tool package for any given project.



Transferring data

Transferring data from one source to another is not only laborious, but can also be prone to costly mistakes.

iQ includes numerous auto-populating reports and fully integrated modules that vastly reduce both time and error.



asset55 ltd, The Beam, Plater Way,
Sunderland, Tyne and Wear,
SR1 3AD, United Kingdom.



www.assetfiftyfive.com



Enquiries: enquiries@assetfiftyfive.com
Sales: sales@assetfiftyfive.com
Support: support@assetfiftyfive.com



Enquiries: +44 (0)191 535 8350
Sales: +44 (0) 191 535 8350
Emergency support: +44 (0) 191 535 8352

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