



# HTL Joint Integrity Software

HTL Worldwide's joint integrity software packages; Bolt-Pro and Joint-Pro are used for the planning, data capture, analysis and reporting of all activities related to the inspection, maintenance and testing of bolted joints saving resource and costs. Bolt-Pro and Joint-Pro are supplied in single computer software packages and are suitable for use in a cross section of industries.

## Bolt-Pro - Bolting Calculator

Offering data gathered from years of industry experience, Bolt-Pro can provide bolt tightening data including bolting patterns, torque and tensioning figures, procedures, techniques and recommended controlled bolting equipment. Based on the information entered, the Bolt-Pro software will analyse all of the data and produce a complete calculation sheet along with the required torque or tension figures to ensure an accurate and correctly bolted joint is achieved.

Bolt-Pro can also create a specific tightening procedure for each bolted joint, which can include specific information such as any special remarks all of which can be easily entered into the software by the user. It also includes basic information for standard flanges, wafer check valves, spade and spacers, and swivel flange assemblies.

## Joint-Pro - Complete Joint Integrity Management System

Joint-Pro, HTL Worldwide's joint integrity database management system is used to support bolted joint inspection and maintenance and/or leak testing activities raising safety levels across the industry in which it applies.



# BOLT-PRO

## Features and Benefits:

- ✓ An easy to use interface
- ✓ Tightening data and bolting patterns, tools and torques for flanged joints
- ✓ Torque data and tensioning tool pressures (subsea and topside)
- ✓ Bolt extension calculations
- ✓ Tightening procedures and torque sequences
- ✓ Joint specific recommendations for improved integrity and safety
- ✓ Impressive large database of bolt materials and bolt lubricants
- ✓ Dimensional data from flanges
- ✓ Recommended bolt lengths



# JOINT-PRO



Joint-Pro: HTL Worldwide's joint integrity database management system can be used to support bolted joint inspection and maintenance and/or leak testing activities.

## Features and Benefits:

- ✓ Tagging of flanges and bolts with specifications and bolt torque/tension calculator
- ✓ Anomaly and close-out recording
- ✓ Leak testing specification
- ✓ Configuration to include required service lines and data
- ✓ Customisable data capture, reporting and statistical analysis
- ✓ Multiple data views
- ✓ Integrated PDF mark-up allows for a single system for the visual plan and work packs
- ✓ Generation on work packs in a standardised consistent format
- ✓ Configuration to meet the exact requirements of end users
- ✓ Established database of standards ANSI, API, ISO and flange information
- ✓ Ability to import tools, gaskets and joint types

**PLEASE NOTE:** Figures provided are for guidance only, please refer to individual tool charts. All data is given in good faith and without acceptance of responsibility on the part of HTL.

**INDUSTRY LEADERS IN CONTROLLED BOLTING, FLANGE WORKING AND PORTABLE MACHINE SOLUTIONS**



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