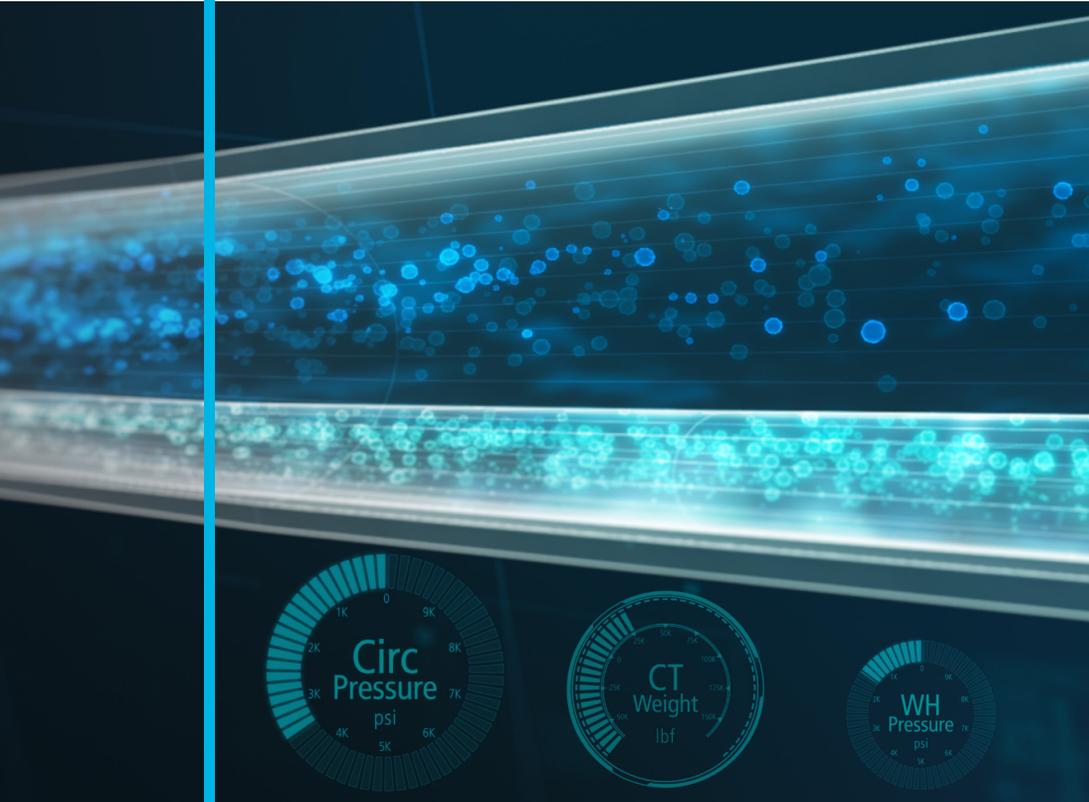


CIRCA Complete coiled tubing simulation software

Optimize job designs and save time for safe, efficient operations



CIRCA™ Complete coiled tubing modeling software provides superior tubing force analysis and wellbore hydraulics modeling. This previously proprietary modeling software is now available for coiled tubing service providers and operators.

Refined over more than three decades, CIRCA Complete software provides the industry's most accurate modeling of

tubing forces, pressures, friction losses, rheologies, fluid behaviors, and downhole tool operations. The wellbore hydraulics model also accounts for reservoir fluids entering the wellbore and automatically selects the best flow correlation for any given deviation.

CIRCA Complete software is built using direct feedback from the field to make coiled tubing execution more reliable,

Applications

- Coiled tubing drilling and interventions
- Advanced coiled tubing operations
- Tubing force analysis and wellbore hydraulics modeling

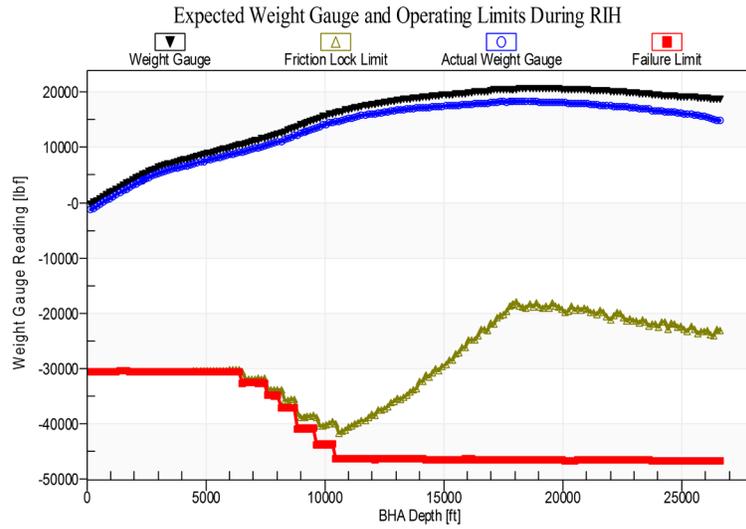
Features and benefits

- Job modeling
 - Uses empirical data to validate models
 - Optimizes time on location and amount of material pumped
 - Helps service providers work up to the edges of the operating envelope—safely, efficiently, and predictably
- Flow and tubing force analysis
 - Delivers full triaxial stress analysis
 - Produces accurate calculation of maximum depth and force
 - Predicts pressures for two-phase flow, gels, acids, and other slurries
 - Provides a detailed fluids database
 - Maps rheologies with temperature and pressure measurements
- Specialized application modules
 - Models coiled tubing fatigue life
 - Calculates nozzle pressure drops across multiple configurations

safe, and efficient. It is developed by a leading coiled tubing service provider for use by other coiled tubing experts. It is the software that BHGE field personnel and engineering rely onto deliver coiled tubing interventions.

Every CIRCA Complete job design uses computational modeling and empirical data to identify job limits and opportunities. The user interface is made up of detailed, context-related help files, along with a warning and messaging system based on actual physical conditions and lessons learned. It provides immediate guidance to the end user and serves as a real-time design aid.

For more information about how you can use CIRCA Complete software to improve your coiled tubing intervention operations, go to bhge.com/CIRCA or call your BHGE representative.



bhge.com

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