Baker Hughes

# CIRCA Complete coiled tubing simulation software
## Optimize job designs and save time for safe, efficient operations

The Baker Hughes **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, 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 Baker Hughes field personnel and engineering rely on to 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, contact your Baker Hughes representative.

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

## Benefits
- 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
- Delivers full triaxial stress analysis
- Produces accurate calculation of maximum depth and force
- Predicts pressures for two-phase flow, gels, acids, and other slurries

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