

CTS5000

The **CTS5000 Coiled Tubing Simulator** is an interactive full-sized coiled tubing deployment simulator able to challenge and evaluate employees from entry level through to specialist senior engineers.

Designed in conjunction with coiled tubing service providers, the **CTS5000** accurately recreates well intervention scenarios for students to practise on.

The **CTS5000**'s highly adaptable interface allows surface equipment and downhole parameters in the supplied standard training snapshots to be modified by the instructor to test and evaluate students in a safe and controlled environment.

From job preparation, rigup and pressure testing, to being able to deal with events such as a coiled tubing surface pin hole leak in the classroom environment, ensures that each step of any potentially dangerous exercise can be practised and learned in a safe, risk-free environment but with the realism and pressure that only immersive simulation provides.

Multiple parameters such as well profiles, surface geometry, production median and rates, completion profiles, coil size and BHA configuration are all editable by the instructor and selectable by the student prior to deployment making the exercises as realistic as possible.



Features

- RIH, POOH weight indication
- Circulating and wellhead pressures
- Depth
- Running speed
- Well profile
- Stripper and BOP position
- Fluids pumped and tank storage levels
- Hydraulic pressures for injector, reel and accumulator
- Graphical display from the operator's chair (with optional screen)
- Multiple views of each scenario available
- Integrated sound system

The main operator's panel is a representation of current consoles found in the field. A high resolution colour display mounted above the main control console provides the operator with a real-time graphical representation of the view from inside the cab with additional screens displaying BHA movement, geology and fluids movement throughout the whole well bore.



Valve alignment, for both suction and discharge of the fluid pump system are all selected by the student at the student input station. Students are required to select fluid type and density and to monitor the transfer of fluids from and to the mixing tank.

The **CTS5000** simulator can be integrated into well planning and workover operations. Provide equipment location and placement utilising the "fly around" option within the simulator to achieve equipment and crew resource optimisation for a given work scope.

Operating Interface

- Full-size consoles;
 - Main operators (New NOV HydraRig Design) *
 - Main operators (Custom Design) *
 - Fluid pump console
 - Nitrogen console
 - Remote choke console
 - Manual back Up Unit *
 - Engine management console *
- Graphic display - single 65" screen
- Webcam and VOIP telephone
- Remote instructor station and desk

Software Modules

- Coiled Tubing Software Module – Infrastructure;
 - CTS Drilling Systems CoilSIM Math Model
 - Electronics Interface Task
 - Windows Instructor Interface Software
 - Student Station & Job Rigup software
 - CTS - 10 CT Sounds Software System
 - Diagnostics & Remote Support Software
 - CT Plotting Software
- Coiled tubing software 3D surface graphics

* Package options

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