

Well Construction

Frank's Tubular Running Services - Casing

Data Trek® FLEX

Next Generation Torque Turn Monitoring System

Certification

Built to meet the latest Hazardous Area, Environmental, and EMI specifications, the system is certified for use in ATEX/IECEX Zone 1 and NEC505 Class 1 Zone 1 hazardous areas. In addition, the Flex Computer System utilizes Flameproof (ExD), Encapsulation, (Exm) and Intrinsic Safety (Exi) protection method techniques, which do not require air purge for use within hazardous areas.

Calibration

Load cells, torque subs, and respective calibration procedures are ASTM E-4 compliant.

Load Cells

A wide range of load cells for all Tong sizes and torque subs for all CRT sizes are available.

Magnification

Original make-up data is redrawn at 1,000x resolutions to allow pinpoint detection of key data parameters, including shoulder torque and turns after shoulder.

Data Recall

Allows instant recall and download of all collected data, on the rig or after the job. It can also be viewed remotely, real time when used with optional DISPLAY™ system.

Statistical Analysis

Statistical information for each make-up is stored for immediate or post job recall. Each make-up is automatically compiled for use in statistical comparisons. Data is available in both graphical and digital format.

Tong Speed Monitor

Tong RPM is monitored in real time and recorded for each make-up. RPM data is displayed in an RPM vs. Turns graph that easily correlates to the make-up graph.

Data Redundancy

Modular system comprises of separate data acquisition system (DAQ) and human machine interface (HMI) units with data redundancy, improving reliability and reducing downtime.



Features and benefits

- Running our proprietary Data Trek® Advantage software, Expro's leading edge FLEX Computer System quickly and accurately obtains critical torque turn data, including torque control with precise shoulder detection and hold capabilities to ensure controlled make-up of premium threaded connections
- Modular and portable design allows for easier transport and faster rig-up and rig-down while the wired or wireless communication options ensure seamless interface in a wide range of requirements with the ability to easily adapt and integrate with rig operating systems
- Streamlined user interface utilizing latest generation hardware and software ensures accurate and efficient operations
- Optional integration with Expro's proprietary solutions such as iCAM® Intelligent Connection Make-Up System, DISPLAY™ Digital Application for remote real-time viewing, Remote CAM Viewer for graph mirroring to enable driller viewing allow this system to optimize tubular running operations and connection integrity