
SUCCESS SYSTEMS
YOUR CATALYST FOR INNOVATION

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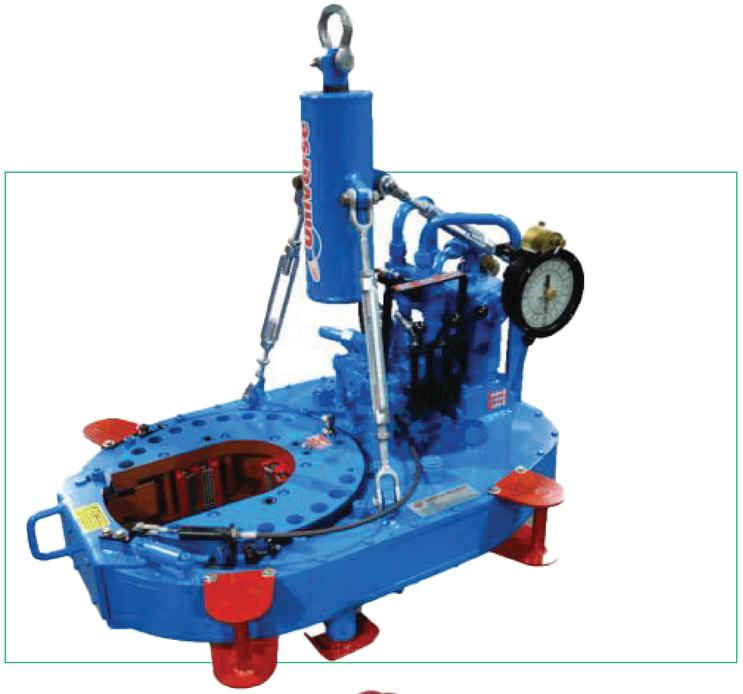
JAMTech System

Provides advanced technology to monitor and control the process of pipe coupling and tubular connections using power tongs, with hydraulic monitoring sensors and equipment for precise data acquisition and analysis.

It is specifically designed to deliver tailored features for monitoring torque, number of turns, and rotational speed, as well as controlling dump valve.



Specifications

❖ **System Hardware**
Data Acquisition hardware from National Instruments corporation.

❖ **Software Development Tool**
Excellent software tool developed using world's best data acquisition, measurements, and automation software tools from NI, utilizing LabVIEW running under latest MS windows version.
Software can be Developed to run under different operating system, such as Linux.

❖ **Usability**
User friendly software interface built specially for field technicians to allow shortened training.
Easy and fast access to all menus through the main test screen.

❖ Panasonic Toughbook

- 12-inch touch panel computer featureing a design based on the Intel Atom processor Z520PT 1.33 GHz with Hyper- Threading, suitable for running JAMTech HMI in harsh industrial environments with an extended temperature range of -20 to 70 °C.
- USB 2.0, optional 2x Gigabit Ethernet, 1x RS3232, 1x RS422/RS485.
- No external power source necessary for sensor operations.
- NEMA4/1P65-compliant front panel.
- 24/7 full system support.
- Hardware test.

❖ Safety

- High voltage Protection for data acquisition cards to meet oilfield and hazardous environment standards.
- Fully Isolated for hazardous operations.
- Fast and Safe Connections.
- NEMA 12 rated junction

❖ System Features

Function :

1. Monitoring torque, turns, time and rotational speed during makeup.
2. Controlling both speed and final torque, or final turns.
3. Calibration management system.
4. Automated Start recording and dump valve release.
5. Hardware test functions for torque, number of turns, and dump valve sensors.
6. Fail-safe operation.
7. Real-time monitoring of torque, and rotational speed after make-up.
8. Historical logging of each joint make-up results.
9. User-friendly software guiding the operator through workshop and field calibration routines, fine-tuning torque and turns calibration in the field, and maintaining calibration records.

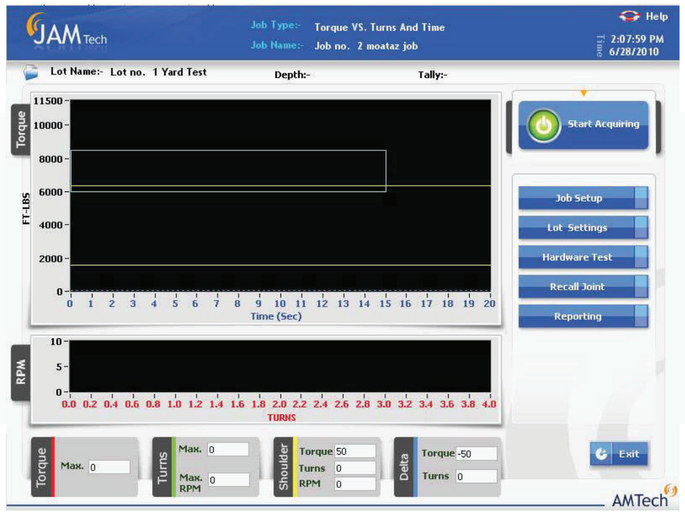
Analysis :

Analyzing data immediately following makeup and determining shoulder point for premium connections.

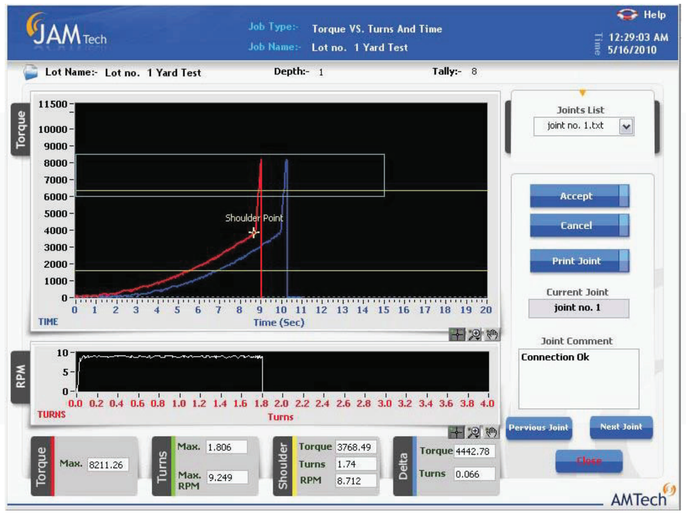
Evaluating results for compliance with the user-specified torque and turns limits.

Allowing the user to enter either the recommended results and comments or a user- specified comments.

Main Screen



Recall Joint Screen



- **REPORTING**

→ IMMEDIATE GENERATION OF PDF AND TXT FILES FOR EACH JOINT AFTER COMPLETION.

→ JOB DETAILS

→ REAL-TIME PLOTS

→ STATISTICAL ANALYSIS

→ POST-JOB MAKEUP PLOTS

→ RECORDING DETAILED JOB REPORTS AND GENERATING SUMMARY REPORTS FOR STATISTICAL ANALYSIS AND PRESENTATION.

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Mail | info@successsystemsksa.com
Call & whatsapp | +966 53 646 5225
www.successsystemsksa.com

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