



# Drilling rig torque transducers

What is a crown rotary torque gauge?

Crown hydraulic rotary torque gauges offer accurate pressure readings in the harshest drilling rig conditions. Crown Rotary Torque Hydro-Mechs are fabricated and engineered from plate steel in the same way that other important rig components are made, including deadline anchors and rotary tables.

What is hydraulic rotary torque system (hydromech)?

Crown Oilfield Instrumentation's Hydraulic Rotary Torque System (Hydromech) is designed for rigs with chain driven rotary tables. The system is designed to display rotary torque to alert users of changes in the drilling parameters to help avoid twist offs.

What is the difference between current transducer and meter?

Meter can indicate torque in amps, foot pounds, or metric units of measurement. Current Transducer attaches to DC power cable; no electrical connections are required. Signal Conditioner delivers output to meters, E/P Transducer, drilling recorder, and other data acquisition devices.

What is a crown rotary torque hydromech?

Crown Rotary Torque Hydro-Mechs are fabricated and engineered from plate steel in the same way that other important rig components are made, including deadline anchors and rotary tables. We build our hydromechs in this way because we feel that this is the strongest, most durable way to build such an important drilling component.

What is a crown rotary torque system?

Crown Hydromech Rotary Torque Systems help to indicate hole conditions and torque patterns, providing the driller with when it's time to change the bit. Capacities available are 500 and 1000 points (relative torque indication). Crown hydraulic rotary torque gauges offer accurate pressure readings in the harshest drilling rig conditions.

What is a driller instrument system?

Instrument systems or panel-mounted as part of a driller's console. Each system accurately senses tension in the deadline and uses this to indicate hook load and weight on bit. Any models have separate pointers for both hook load and weight on bit. In addition, integral circular hydraulic and factory sealed for immediate install

Tong Line Pull Gauges Crown's tong torque and tong line pull gauges (CTT100 Series) are designed to indicate make-up or break-out torque for tool joints, ...

Your Source of High-Quality Oilfield Instrumentation for Odessa, TX; Houma, LA; Lafayette, LA; and Beyond With over 20+ years of experience servicing the ...



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The key elements of Drill-Lab rig instrumentation systems are definitely sensors and additional equipment, e.g. remote computers, drillers' monitors, Ex-proof audio-visual alarms, and many ...

As shown in Figure 3 and Figure 4, the drilling system has five sensors, including a pressure sensor capable of providing measurements for ...

Design and manufacturing of a test rig for measuring the torque required in soil drilling operations November 2020 IOP Conference Series ...

To support the integration of digital technologies, low-cost and high-accuracy sensors are a key capability. Important industries for smart manufacturing implementation ...

Canrig's wireless torque, turn and tension sensor, the TesTORK™, delivers high speed, precise data over a secure wireless connection. Designed for ...

The Rig Monitoring System is designed to display highly accurate process and read back information derived from an almost limitless range of sensor inputs ...

A line of high-capacity square drive as well as hollow-flanged torque sensors for the oil and gas industry is appropriate for the calibration of make-and-break machines. All of our oil and gas ...

All metal wetted parts for use in wide variety of fluid applications. No internal elastomeric seals mean no o-ring compatibility issues. Range: 50 psi to 8000 psi (inclusive) Accuracy: ±0.25 ...

The Rig Monitoring System is designed to display highly accurate process and read back information derived from an almost limitless range of sensor inputs from drilling equipment. ...

Torque - Shows electric or hydraulic rotary torque changes during drilling that inform the driller of formation transitions, worn bit, and tight or out-of-gauge holes.

OFI India Ltd offers rig instrumentation services in India. Mud Volume Totalizer (MVT), Electronic Data Recorder (EDR) can be effectively used as electronic ...

Providing accurate indications of changes in torque for rigs using chain-driven rotary tables. Acadiana Oilfield Instruments' Hydraulic Rotary Torque System comes in box or panel mount ...

This handbook was prepared by Wellbore Integrity Solutions DRILCO engineers to help rig personnel with technical questions, provide recommendations and help the rig crew to ...

TORQUE SHAFTS Custom Torque Shaft Modify/design existing top drive shafts to measure torque Strain-gauge the complex large shafts found in top drives Calibrating to torque levels ...



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Torque transducers can make up for the inherent deficiencies of drilling work. Through the torque parameters, we can gain insight into all kinds of sudden drill bit accidents, and provide a ...

Abstract A retractable top drive for use with a drilling rig and process for operating a drilling rig. The retractable top drive comprises a dolly having a pair of mast rails in translatable ...

Tool Description The hookload/weight-on-bit (WOB) sensor uses a transducer to monitor the tension of the wire-rope deadline, which spans between the crown block sheave and the ...

1. INTRODUCTION Sensors have been used to measure surface data while drilling since the late 1920s (Miller and Erdos, 2018). Data collected by these sensors were important because they ...

IML-ET07G Electric Torque Sensor The electric torque sensor is a kind of sensor which can obtain the torque parameters of the rotary table by testing the ...

Measurement While Drilling (MWD) is a technology for assessing rock mass conditions by collecting and analyzing data of mechanical drilling ...

Results Interface's TS11 Flange Style Reaction Torque Transducer customized for rugged Reaction Torque Transducer specifically to drill deep holes or environments in between the ...

Torque sensor measures torque variation of the drilling tool driven by the rotary table with rotary table torque sensor of tension pulley type, so as to show the operating condition of the ...

Acadiana Oilfield Instruments" electric rotary torque system delivers accurate measurements for rigs using electric motor driven rotary tables. This system includes a current transducer and a ...

Engineered to provide years of accurate, reliable measurement of rotary torque on electric rigs, the Forum Electric Rotary Torque System delivers precision ...



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