

ROLLOOS



CENTRALIZING
**KNOWLEDGE
& EXPERIENCE**



TUGGER
LOAD
MONITORING



MAXIMIZE THE SAFETY OF OFFSHORE LIFTING OPERATIONS WITH TUGGER LOAD MONITORING

Rolloos' Tugger Load Monitoring System improves the safety level of your lifting procedures. This is achieved by increasing real-time and situational awareness of operators and drill crew regarding the actual load pulled by the tugger winches.

TUGGER LOAD MONITORING

Offshore lifting procedures can be challenging, especially without reliable knowledge of the actual load pulled by the tuggers. Existing solutions are often inaccurate or economically unfeasible. Increased real-time awareness is key not only for improving safety, but also for optimizing operational lifting procedures.

For this reason, Rolloos has developed a plug-and-play and easy-to-use system. This solution ensures real-time visibility of the actual load pulled by the tuggers on the drill floor and inside the driller's cabin. In case of overload, the system alarms tugger operator and drill crew. In this way, the level of awareness is increased, hence safety and as a result, efficiency and performances.

BENEFITS

- ✓ Increased safety on the drill floor
- ✓ Increased real-time situational awareness
- ✓ Optimized operational lifting procedures
- ✓ Easy to implement, wireless solution
- ✓ Cost-effective system

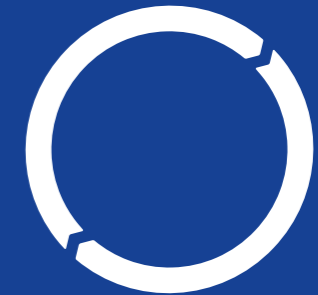






Visit our website www.rolloos.com/en/tugger-load-monitoring for more specifications.

CHALLENGES







- Drill crews require constant awareness regarding the actual load lifted by the tuggers
- Crew needs to be alerted intuitively in case of overload
- Management requires data logging for post-operational analysis and optimization of lifting procedures
- The solution must be a simple and cost-effective add-on to existing tuggers

PROCESS



- | | |
|---|--|
| 
1. Direct Load Feedback | 
2. Overload Alerting |
| 
3. Data logging | 
4. Integration |

PRODUCTS

-  **Wireless Load shackles**
- +
-  **Wireless handset**
- +
-  **Ex zone 1 display**
- +
-  **Audible alarm**
- +
-  **Alarm lights**
- +
-  **Reports & Dashboards**

BENEFITS

-  **Improved safety on the drill floor**
-  **Increased real-time situational awareness**
-  **Optimized operational lifting procedures**
-  **Reduced downtime and number of incidents**
-  **Improve insight on load lifted**

IMPROVE THE SAFETY LEVEL OF YOUR LIFTING PROCEDURES BY INCREASING REAL-TIME AND SITUATIONAL AWARENESS OF OPERATORS AND DRILL CREW



2. Load shackles with wireless transmitter



5. Visible and audible alarms



3. Lifted load constantly indicated on safe area and Ex displays



4. Wireless handsets for remote viewing



1. Tugger Load Monitoring optimizes general lifting operations on the drill floor





✓ **INCREASED SAFETY ON THE DRILL FLOOR**

Rolloos' Tugger Load Monitoring System is tailor designed to optimize your lifting operations on the drill floor. The actual load lifted is constantly monitored, ensuring real-time feedback on the status of the lifting operation. Visible and audible alarms timely inform operators and drill crew of a potential overload.

✓ **INCREASED REAL-TIME SITUATIONAL AWARENESS**

Load shackles and wireless transmitters are easy to install and have an accurate load reading. Our system provides you with clear insights on the actual load that is being lifted, enabling the tugger operator and the drill crew to take immediate action. The load of each tugger is constantly indicated on displays present on the drill floor and in the driller's cabin. Operators can have access to multiple lifted loads from different tuggers, using Rolloos' intuitive handset.

✓ **OPTIMIZED OPERATIONAL LIFTING PROCEDURES**

Rolloos' Tugger Load Monitoring optimizes offshore lifting operations due to the real-time knowledge of actual loads. Furthermore, the system can be upgraded for control output and data logging, thus allowing post-operations analysis and generation of statistics on relevant and specific lifting procedures.

✓ **COST-EFFECTIVE SYSTEM**

Our plug-and-play system, thanks to off-the-shelf pieces of equipment and intelligent, tailored design, creates an extremely cost-effective solution. The Tugger Load Monitoring System does not require extensive training of your rig crew, due to the straightforward installation and use of the system, and the intuitive interfaces.

The benefits of increased situational awareness, thus improved safety and optimized lifting operations are unrivaled.



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