

Top Drive Load Pin

Industry: Energy

Summary

Customer Challenge

A top drive drill is used in the oil and gas industry. It's a large motorized drill that allows for the rotation of the drill string from the top of the drilling mast. Load pins are needed to suspend the top drive in a more accurate way of measuring weight on the bit, since it is installed between the traveling block and the top drive. This means the rope reeving the hoist has no influence on the accuracy.

Interface Solution

Interface suggests using their ILMP Standard Stainless Steel Load Pin for this top drive application. The ILMP is installed at the traveling block, and during drilling operations, the ILMP will detect the force or weight of the top drive. Force results are monitored and displayed for the customer using the 920i Programmable Weight Indicator and Controller.

Results

Interface's ILMP Standard Stainless Steel Load Pin successfully monitored the top drive drill during drilling operations.

Materials

- ILMP Standard Stainless Steel Load Pin
- 920i Programmable Weight Indicator and Controller
- Top drive drill

How It Works

1. ILMP Standard Stainless Steel Load Pin is installed at the traveling block, used to suspend the top drive drill.
2. As the top drive drilling operations commence, the 920i Programmable Weight Indicator and Controller displays the forces detected by the ILMP Standard Stainless Steel Load Pin.

