

Oil Rig Torque Transmitters



MCRT® 39000X devices from S. Himmelstein accurately measure torque for control and verification of loads on oil rig support legs. According to the company:

- They enable load monitoring during jacking operations and help maintain stability on uneven and shifting sea beds and strong currents.
- Mounted between the electric motors and pinion drive gearboxes on each leg's truss, the systems transmit data via a two-wire 4-20 mA loop to the control room.
- Because the instruments measure the source load distribution directly, they enable a significantly faster response time — with no need to guess the location of stress on the rig's structure.
- The extremely high immunity to noise interference, high safety margins and maintenance-free design have led to ABS and DNV certification for oil field use.
- They measure bidirectional static (stall) and dynamic shaft torque and speed (an option).
- A one-piece stainless shaft carries bonded, foil strain gages, which measure torque, and in combination with element design, cancel bending and thrust loads.
- Their rotary transmitters don't wear or generate noise.
- There are no slip rings, brushes, radio transmitters and other noisy, limited-life elements.

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