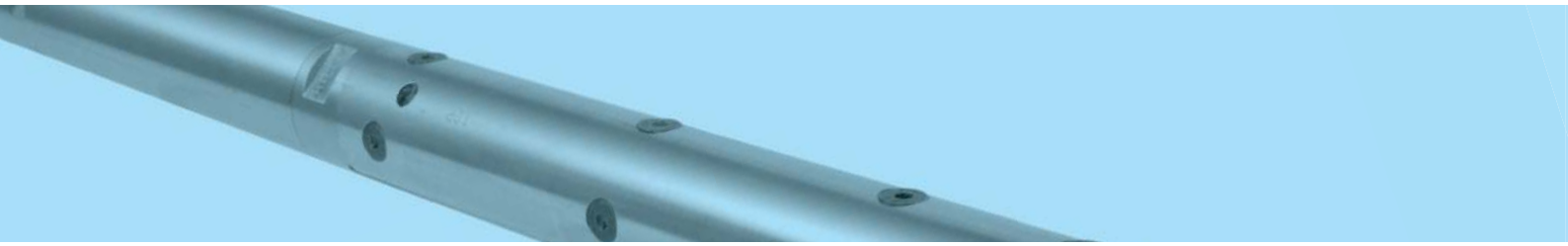

Image courtesy of GE oil & gas

**TECHNICAL DATA SHEET**

# HTU

## Head Tension Unit

The Head Tension Unit (HTU) measures downhole tension and compression of the bottom hole assembly to identify potential hang-ups or over pulls to help prevent weak point and logging cable breakage, slack cable in the well or tool string damage.

When logging in complex completions or high friction conditions, it is essential to have the ability to detect and measure tension to avoid breaking the weak point or logging cable, or to measure compression to avoid damaging logging tools.

Running a HTU provides the logging engineer with early indications of over-pull, tool drag, stuck tools, tool compression, and irregular or yo-yo tool movement.

**APPLICATIONS:**

- Safe logging of wells with complex completions or multiple changes in ID
- Safe logging of wells with known completion damage or hang-up events
- High deviation or horizontal well operations

**BENEFITS**

— Early indication of over-pull, key seating and tool sticking

— Reduce operational risk and improve log data quality

— Real-time feedback option for critical well interventions

— Improve memory operations by aiding diagnosis of downhole tool motion and behavior

— Deployable on Slickline, Electric line, Coil Tubing and Tractor

Image courtesy of GE oil & gas

# Specifications

| | |
|---|---|
| **Temperature rating** | 350°F (177°C) |
| **Pressure rating** | 15,000 psi (103.4 MPa) |
| **Tool diameter** | 1 $^{11}/_{16}$ in (43 mm) |
| **Tool length** | 23.2 in (590 mm) |
| **Tool weight** | 11.6 lb (5.25 kg) |
| **Resolution** | 0.07 lb (0.032 kg) |
| **Accuracy** | ±15 lb (6.82 kg) |
| **Measurement range** | -880 to +2,645 lb (-400 to +1,200 kg) |
| **Materials** | Corrosion resistant throughout |