

MaxTRAC

Reciprocating wireline tractor



A versatile approach to conveyance with next-generation production logging tools and real-time controls



Temperature:
302 degF [150 degC]



Pressure:
15,000 psi [103.42 MPa]



Applications

- Flexible tool deployment in high-angle and horizontal wells
- Production and openhole logging
- Analysis behind casing
- Cement and corrosion evaluation
- Perforating and plug setting
- Formation evaluation
- Reservoir pressure measurement
- Pipe recovery

How it improves performance

- Provides a reliable alternative to coiled tubing or drillpipe
- Improves speed and accuracy by logging either direction
- Avoids stuck toolstring through look-ahead capability
- Works in wide range of borehole sizes and conditions
- Reduces personnel requirements, HSE risk, and equipment costs
- Enables fast rig-up and rig-down
- Uses less power than conventional systems
- Operates continuously (cooldown stops not required)

Features

- Intelligent real-time operation with extensive data readouts
- Modular design that straddles diameters and washouts
- Inchworm traction system with continuous motion
- Ability to log on downward pass while tracting
- Versatility to run on any cable

MaxTRAC reciprocating wireline tractor with its unique cam-gripping system.

Deploys in high-angle or horizontal wells

The MaxTRAC* reciprocating wireline tractor is an efficient, intelligent conveyance tractor engineered for use in high-angle and horizontal wells to deploy downhole tools previously conveyed by coiled tubing or drillpipe.

Logs faster in both directions, avoiding stuck toolstrings

The MaxTRAC tractor can log well data during both downward and upward passes. While logging downward, it provides a look-ahead capability to identify and avoid problem areas, rather than tractor into them. This significantly reduces the risk of toolstrings becoming stuck in horizontal wells.

Logging against flow on the downward pass produces higher quality data. And when multiple passes are required, data acquisition is faster than with conventional tractors, which only log upward. Internal diagnostics and surface control capabilities permit evaluation of such complex completions as Y-tools, gravel packs, screens, perforated liners, and slotted liners.

Provides intelligent real-time feedback for full control

The MaxTRAC tractor integrates with the new generation of production logging tools from SLB to enable real-time surface readouts used to control its operation. Readouts include motor current, torque, computed speed for each tractor section, cable head tension, casing collar location, deviation, and relative bearing.

Straddles diameter changes and washouts

The tractor's modular design lets operators space multiple drive sections to straddle diameter changes and washouts. Up to four tractor sections can be used together—driven by any two sections with good borehole contact. Overcoming borehole irregularities and compatible with standard wellsite equipment, this technology tractors easily in 2.4-in to 9⁵/₈-in boreholes and can navigate 2¹/₈-in restrictions without changing tool parts or running tandem tractors.

Logs deeper than coiled tubing in horizontal wells

Tractor depth and logging can extend to more than 30,000 ft, limited only by cable strength. The conveyance runs on all cable types, eliminating the expense and limitations of having to match certain cable. Because it is not limited by helical lockup, tractor reach often extends beyond the maximum logging depths achievable by coiled tubing in horizontal wells.

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Protects against casing and formation damage

The MaxTRAC tractor's patented, high-efficiency design uses an inchworm grip that ensures limited physical contact with the wellbore and reduces sensitivity to debris, rugosity, perforations, slotting, and scale compared with conventional systems. Casing damage is minimized by a unique cam gripping system that counteracts lift forces prevalent in high-flow wells and is particularly well-suited to consolidated formations in open hole.

Reduces power requirements and improves HSE

Most hydraulic tractors require high power levels that can cause auxiliary systems such as heads, collectors, rope sockets, and cables to fail. MaxTRAC tractors optimize power and deliver more than 40% efficiency when compared with the 10% to 20% efficiency of conventional tractor systems.

The MaxTRAC tractor also reduces health, safety, and environmental risk by using proven wireline pressure control equipment. This simplifies pressure-testing procedures while eliminating handling of heavy equipment, requiring fewer operators, and reducing rig-up and rig-down times required by conventional tractor conveyances.

MaxTRAC Reciprocating Wireline Tractor Specifications

Outputs	Motor current, torque, speed (per tractor section), cable head tension, casing collar location, deviation, relative bearing
Min. tracting ID, in [mm]	2.4 [61]
Max. tracting ID, in [mm]	9.625 [244]
Max. tracting force, lbf [N]	1,000 [4,448]
Max. speed, ft/h [m/h]	2,400 [732]
Mud type and weight	All
Pressure rating, psi [MPa]	15,000 [103.4]
Temperature range, degF [degC]	302 [150]
Outside diameter, in [mm]	2 ¹ / ₈ [54]
Length, [†] ft [m]	32 [9.75]
Weight, [†] lbm [kg]	234 [106]
Tension, lbf [N]	13,000 [57,820]
Special applications	All cased hole completions Fishing (with optional 2 ¹ / ₈ -in [53.97 mm] WIReD [®] wireline inline release device above and below tractor; optional 1 ¹ / ₈ -in electrical release sub)

All specifications are subject to change without notice.

[†] Values depend on configuration, pipe size, and weight to be cut. Applications outside the defined operating envelope should be shared with an SLB representative for risk assessment.

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