

Motorized Free Point Tool

Titan Division | Instruments



Hunting's Free Point Tool accurately determines the stuck point in pipe, tubing, or a casing string. The real-time data allows the operator to make rapid and informed decisions in determining the next steps to recover the stuck downhole assembly.

The Hall sensor picks up movements in the assembly associated with tension, compression, or torque measurements and converts that to an AC signal. This signal is then processed at the surface by the Free Point Panel for display and recording for permanent records.

FEATURES

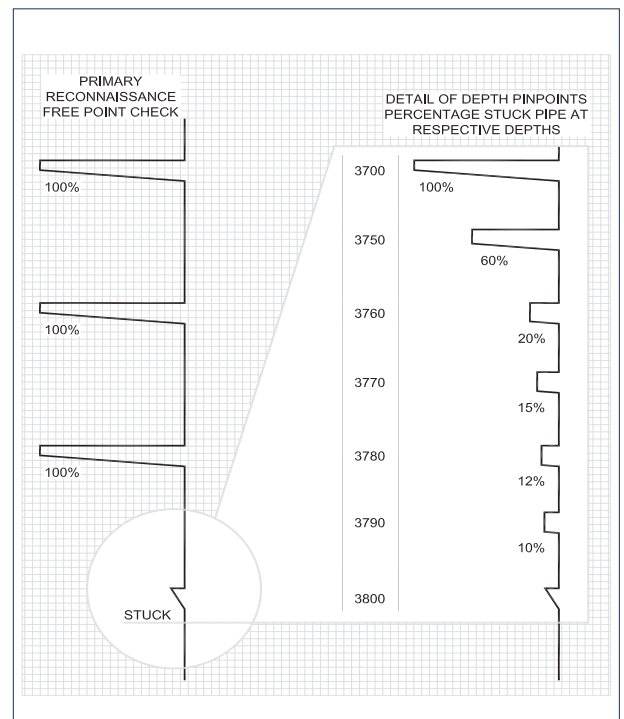
- 375°F operation
- Tension, compression and torque measurements
- Built in Casing Collar Locator (CCL)
- Solid-state electronic motor control
- Full open/close sensors
- Six anchor sizes available
- Temperature stable Hall sensor



The Free Point Panel (8140-000-500) provides control functionality to the tool and processes signals coming from the tool. The panel is available separately.

BENEFITS

- Real-time data assists in optimizing pipe recovery methods
- Accurate depth determination of stuck assembly
- Controlled electronics protect damage to gear and drive assemblies



Example illustrating how the location of stuck pipe can be determined by the Motorized Free Point Tool. The ideal depth to perform backoff operations will be somewhere between 3700ft and 3750ft.

SPECIFICATIONS

Part Number*	1-7/16 in (37 mm)	1-9/16 in (40 mm)
With Panel	8140-14362MHXXX-XX-00-H	8140-15662MHXXX-XX-00-H
Without Panel	8140-14362MHXXX-XX-00	8140-15662MHXXX-XX-00
MEASUREMENTS		
Vertical Resolution (in)[mm]	4.03 [1.23]	4.03 [1.23]
Logging Speed CCL (ft/min)[m/min]	60 [18.3]	60 [18.3]
Mud Type • Weight	No limitations	No limitations
ENVIRONMENTAL		
Temperature rating (°F)[°C]	375 [191]	375 [191]
Pressure Rating (psi)[MPa]	15,000 [103]	18,000 [124]
Material	Nedox® coated steel	Carbon steel
MECHANICAL		
Outside Diameter (in)[mm]	1.43 [36.5]	1.56 [39.7]
Length (ft)[m]	8.32 [2.54]	8.32 [2.54]
Weight (lb)[kg]	45 [20]	50 [23]
Fishing Strength (lbf)[kN]	22,000 [98]	22,000 [98]
Min. • Max. Pipe I.D. (in)[mm]	1.77 [45] • 11.27 [287]	1.90 [48] • 11.27 [287]
Top Connection	1-3/16" GO Box	1-3/16" GO Box
ELECTRICAL		
Operating Voltage & Current		
Operating Anchors	32 VDC @ 240±20 mA	32 VDC @ 240±20 mA
Operating Sensors	40 VDC @ 200±10 mA	40 VDC @ 200±10 mA
Output Signal (Peak to Peak)	1.0 V variable frequency	1.0 V variable frequency
Cable Type	Single conductor	Single conductor
Stretch/Torque Sensor	Magnetic Hall flux gap	Magnetic Hall flux gap

*Note: The part numbers have been changed to reflect the higher temperature in which this tool is rated.

ANCHOR SELECTION CHART

LEG PART NUMBER	Closed Diameter (in)[mm]	Open Diameter (in)[mm]
8140-143-016-1	1.43 [37] [†]	2.74 [70] @ 45°
8140-143-016-2	1.43 [37] [†]	4.17 [106] @ 45°
8140-143-016-3	1.43 [40] [†]	5.56 [141] @ 45°
8140-143-016-5	4.10 [104]	6.43 [163] @ 30°
8140-143-016-6	5.86 [149]	8.40 [213] @ 30° 9.17 [233] @ 45°
8140-143-016-7	7.38 [187]	10.52 [267] @ 30° 11.27 [286] @ 45°

[†] 1.56 in (40 mm) for 18,000 psi (124 MPa) version

Contact Information

Sales
sales.titan@hunting-intl.com

Support
support.titan@hunting-intl.com

Perforating
Pampa, TX USA (806) 665-3781
Oklahoma City, OK (405) 682-2680
Monterrey, Mexico +52 (818)196-8700

Instruments
Pampa, TX USA (806) 665-3781
Wichita Falls, TX USA (940) 691-1005
Houston, TX USA (713) 463-5881

Energetics
Milford, TX USA (972) 493-2580

Distribution
Hunting's distribution centers are strategically placed globally. For more information, visit us at: www.hunting-intl.com/titan