

iSet™ Electro-Hydraulic Setting Tool



The iSet™ is a non-ballistic electro-hydraulic setting tool for plugs, packers and straddles, that operates on slickline in Memory mode or on electric-line in Surface Readout (SRO) mode.

The iSet™ Electro-Hydraulic plug, packer and straddle setting tool addresses the common limitations of both explosive and hydrostatic setting tools. Because it is electro-hydraulic it ensures higher levels of safety than ballistically-activated devices—making it easier to mobilize—while delivering equivalent setting times. Unlike traditional hydrostatic setting tools which are limited by the actual hydrostatic pressure of the well—meaning shallow-depth or low-pressure gas well operations require additional pressurized modules—the iSet tool safely delivers an equivalent setting force and is not limited by well environment conditions.

For memory operation on slickline, the tool is powered by readily available commercial alkaline batteries, removing the logistics challenges associated with lithium battery-powered tools.

Operation of the tool is made easy using Probe's patent-pending Cyclops Touch interface which eliminates servicing after each run as well as the need for a separate laptop to program and validate settings. Once the tool is pulled out of hole, it is reset at surface using the rapid-reset feature and is ready for operation within seconds.

Tools can perform up to 50 setting cycles before recommended maintenance, a procedure that can be carried out in a field workshop, with the necessary spares and consumables.



	2.165 iSet	3.600 iSet
iSet Core Module Specifications		
Outside diameter, in [cm]	2.165 [5.5]	3.600 [9.14]
Length, ft [m]	5.42 [1.65]	4.68 [1.43]
Weight, lb [kg]	52.3 [23.7]	117.1 [53.1]
Temperature rating (standard), °F [°C]	23 to 302 [-5 to 150]	
Pressure rating, psi [MPa]	15,000 [103.42]	
Mechanical Specifications		
Stroke length, in [cm]	10.0 [25.4]	10.0 [25.4]
Load, lb [kg]	30,000 [13,608]	60,000 [27,216]
Connection type, in [cm]	0.6875 [1.75] UN-2B 16 TPI-STR & RH Box	2.0 [5.08] Reg ACME-2G 6TPI-STR & RH Pin
Power Configuration Options		
<i>Alkaline Power Module:</i>		
Outside diameter, in [cm]	2.165 [5.5] (Power Module only)	
Length (iSet + Power Module), ft [m]	9.96 [3.04]	9.29 [2.83]
Weight (iSet + Power Module), lb [kg]	84 [38]	148 [67]
Temperature rating, °F [°C]	248 [120]	
<i>Flasked Alkaline Power Module:</i>		
Outside diameter, in [cm]	2.250 [5.72] (Power Module only)	
Length (iSet + Power Module), ft [m]	9.96 [3.04]	9.29 [2.83]
Weight (iSet + Power Module), lb [kg]	86 [39]	150 [68]
Temperature rating, °F [°C]	302 [150]	
<i>E-line Head Module:</i>		
Outside diameter, in [cm]	2.165 [5.50] (E-line Head Module only)	
Length (iSet + Power Module), ft [m]	8.77 [2.67]	8.11 [2.47]
Weight (iSet + Power Module), lb [kg]	68 [31]	134 [61]
Temperature rating, °F [°C]	302 [150]	
<i>Patents:</i>		
US Pat. No.	9689220	
European Pat. No.	EP2986810B	