

Electronic Setting Tool (EST)



Description

Available in two configurations; standard and surface powered, the EST is a non-pre-pressurised, non-pyrotechnic setting tool. It's one of the shortest setting tools available on the market to date and can be reset in-field without redress.

The EST converts its internal power into a downward axial force to mechanically set Interwell or third-party products. Controlled by an Electronic Module, its processes are logged to create a setting profile for quality assurance of the set product and for health monitoring. Run on Slickline, Digital Slickline or E-Line, the EST goes through an automatic shutdown sequence after setting and at full stroke the oil is recirculated, preventing any pressure build-up. Full metal connection to the shear stud allows the EST to be jarred free if it becomes necessary.

Application

The EST is used for installing downhole products such as bridge plugs, packers, gauge hangers and straddles. It's also used as the receiver in the Barrier Verification System (BVS).

The Surface Powered configuration allows for real time surface display of well pressure, temperature, inclination and operational parameters such as internal pressure, voltage, current and RPM.

Benefits

- Long stroke
- Data logging
- Debris tolerant
- Large output force
- Resettable in-field
- Reliable with extensive run record
- Non-pre-pressurized, non-pyrotechnic
- Independent of well pressure for operation
- Can be jarred free from the plug if necessary
- Simplified for use with Integrated Operations Centers (IO)

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Surface powered e-line configuration

- Enables surface control and real time display of well pressure, temperature, inclination and other EST parameters
- Surface display of well parameters and EST parameters during setting

Technical Specifications

Tool Size OD	1.75"	2.13"	2.70" EST	3.50" EST	4.50"
Max Stroke	7"	10"	10/13"	15/18" ⁽¹⁾	24"
MUL (Shortest available)	112.2" (2850)	105.3" (2674)	67.41" (1712)	64.9" (1648)	100.2" (2545)
Max Working Pressure	10,000 psi	10,000 psi	10,000 psi	10,000 psi	10,000 psi
Max Setting Force	17,000 lbf	25,000 lbf	33,000 lbf	52,500 lbf	85,000 lbf
Max Tensile Load Slickline	26,000 lbf	42,000 lbf	55,000 lbf	55,000 lbf	⁽²⁾
Max Tensile Load E-Line	26,000 lbf	42,000 lbf	50,000 lbf	50,000 lbf	50,000 lbf
Upper Connection Slickline	15/16-10 UNS	15/16-10 UNS	1-1/16-10 UNS	1-1/16-10 UNS	⁽²⁾
Upper Connection E-Line	1-3/8" GO Box	1-3/8" GO Box	1-3/8" GO Box	1-3/8" Go Box	1-3/8" GO Box
Lower Connection	IW #5	IW #5	E4 #10	E4 #10 / E4 #20	E4 #40 / E4 #20
Max Temperature	140 °C	140 °C	150 °C	150 °C	150 °C

⁽¹⁾ 18" and 20" stroke only if fitted with the 5.20" Extending Accessory Kit (EAK). A minimum hydrostatic pressure of 50 bar is required in this configuration. Contact us for configurations available for your application.

⁽²⁾ The 4.50" EST is available with E-Line Powered only.