

Product Sheet: Hydrostatic Setting Tool (HST)

Product Description

The Hydrostatic Setting Tool (HST)* provides the industry with a reliable, non-pyrotechnic, non-pre-pressurized (when used in hydrostatic configuration) setting device, used for the installation of downhole products such as Bridge Plugs, Packers, Gauge Hangers and Straddles.

The setting tool converts the hydrostatic well pressure into an axial force. The short overall length of the HST has been achieved by incorporating a highly efficient pressure multiplying piston area. This combined with a unique regulating device, allows the hydrostatic well pressure to be boosted within the tool, which in turn provides the high axial force.

* OEM Omega Completion Technologies

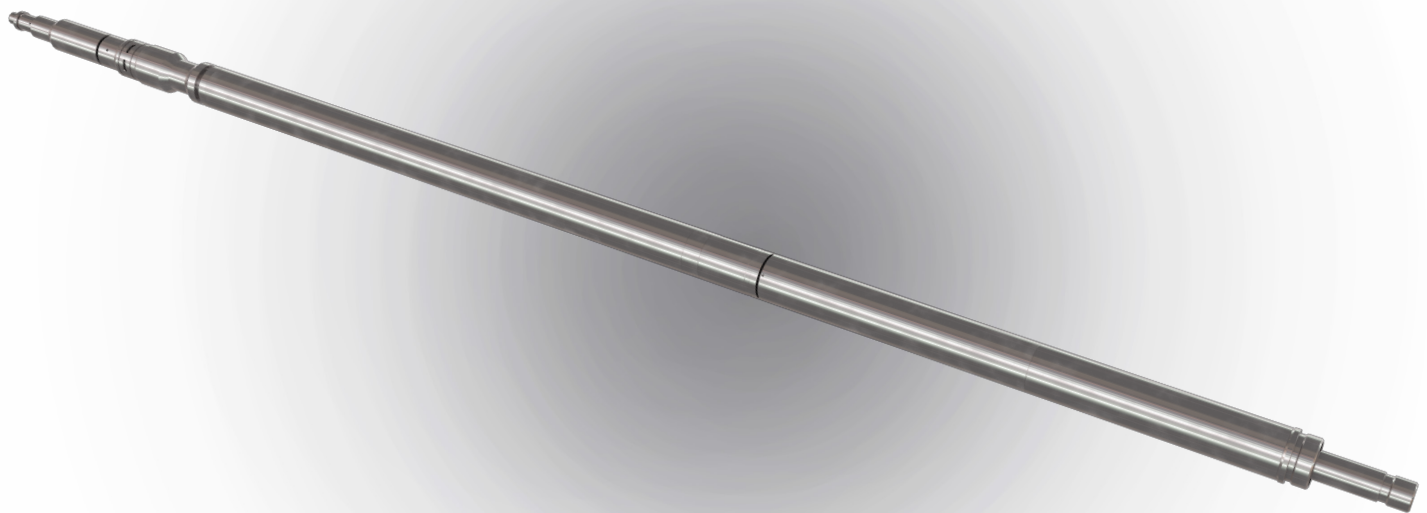
Product Application

The HST has an extensive run record on both Slickline and E-Line, and can simply and quickly be converted for either mode of deployment on the rig site. In addition, the HST can be adapted for coil tubing and drill pipe applications as required.

When run on Slickline, an external plunger switch allows the timer to be started just before the tool string is picked up and the lower end of the setting tool will make up to industry standard wireline adapter kits. An option for a Pressure Module to be fitted above the HST is available, for applications where there is insufficient hydrostatic well pressure or high levels of debris in the well.

Product Benefits:

The HST is available in standard, long stroke and HPHT versions. Always non-pyrotechnic and non-pre-pressurized when used in hydrostatic configuration.



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Product Features

- Non-pyrotechnic
- Non-pre-pressurized (hydrostatic configuration)
- Debris tolerant (Pressure Module configuration)
- Large output force
- Extensive run record
- Accurate time delay mechanism
- Reduces risks associated with Wireline mechanical manipulation

Technical Specifications

Tool size	1.75"	2.25"	2.70"	2.70" **	3.50"	3.60" ***	4.00" ****	4.125"	5.20"
Upper Connection (Slickline)	15/16" UNS	15/16" UNS	1-1/16" UNS	1-1/16" UNS	1-1/16" UNS	1-1/16" UNS	1-1/16" UNS	1-1/16" UNS	1-9/16" UNS
Upper Connection (E-line)	1-3/16" GO	1-3/16" GO	1-3/16" GO	1-3/16" GO	1-3/16" GO	1-3/16" GO	1-3/16" GO	1-3/16" GO	1-3/16" GO
Lower Connections	Custom	Baker E4 (size 5)	Baker E4 (size 10)	Baker E4 (size 10)	Baker E4 (size 10)	Baker E4 (size 20)	Baker E4 (size 20)	Baker E4 (size 20)	Custom
OD	1.75"	2.25"	2.70" *	2.70"	3.50"	3.859"	4.00"	4.125"	5.20"
Minimum Make-Up Length	113" (2,870 m)	90" (2,286 m)	88" (2,235 m)	164" (4,166 m)	184.5" (4,686 m)	109" (2,768 m)	98.6" (2,504 m)	98" (2,489 m)	170.50" (4,331 m)
Stroke	7.00"	7.00"	7.00"	15.00"	31.00"	13.00"	10.00"	13.00"	20.00"
Max Working Pressure	10,000 psi (690 bar)	10,000 psi (690 bar)	10,000 psi (690 bar)	10,000 psi (690 bar)	10,000 psi (690 bar)	10,000 psi (690 bar)	15,000 psi (1034 bar)	10,000 psi (690 bar)	10,000 psi (690 bar)
Max Working Temperature	302 °F (150 °C)	302 °F (150 °C)	302 °F (150 °C)	302 °F (150 °C)	302 °F (150 °C)	302 °F (150 °C)	347 °F (175 °C)	302 °F (150 °C)	302 °F (150 °C)
Inlet Pressure	3,000 psi (207 bar)	4,000 psi (276 bar)	3,000 psi (207 bar)	3,000 psi (207 bar)	3,000 psi (207 bar)	3,000 psi (207 bar)	3,300 psi (207 bar)	3,000 psi (207 bar)	2,000psi (138 bar)
Output Force	10,000 lbs (44 kN)	21,000 lbs (93 kN)	37,000 lbs (165 kN)	37,000 lbs (167 kN)	31,000 lbs (138 kN)	60,000 lbs (267 kN)	55,000 lbs (245 kN)	55,000 lbs (245 kN)	70,000 lbs (311 kN)

* Upon request, 2.650" OD available

** Long stroke tool

*** Single Piston

**** High Pressure, High Temperature tool



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