



Hydrostatic Setting Tool

The Omega Hydrostatic Setting Tool (HST) provides the industry with a highly reliable, non-pyrotechnic setting device used for the installation of downhole tools such as bridge plugs, high expansion gauge hangers, and straddles.

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

The HST has been extensively deployed on both slickline and e-line operations and can be quickly converted from slickline to e-line deployment on the rig site by replacing only two components at the top of the tool.

In addition the HST can also be adapted for coil tubing and drill pipe applications as required.

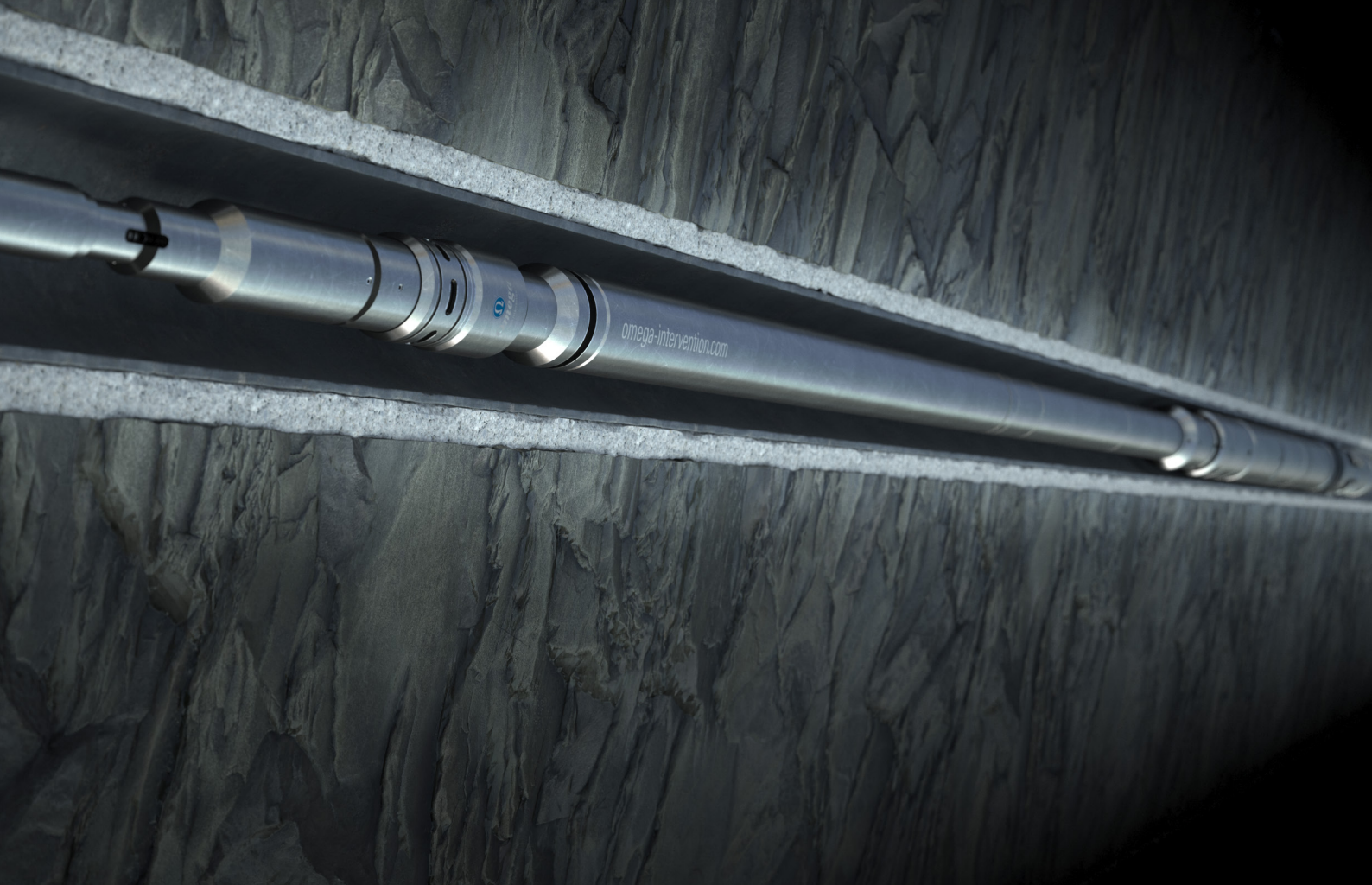
When run on slickline an electronic timer is used, which features an external switch allowing the timer to be started just before the tool string is picked up. The lower end of the setting tool will make up to industry standard wireline adapter kits.

A Pressure Module can be integrated into the HST when insufficient hydrostatic well pressure is present. With no requirements for explosives, the Omega Hydrostatic Setting Tool negates the issues commonly associated with the handling, transportation, storage, importing and exporting of hazardous materials.

Features - Applications - Benefits

omega-intervention.com

Hydrostatic Setting Tool



FEATURES

- Accurate time delay mechanism.
- Large output forces generated.
- High pressure / high temperature variants available.
- Large "stroke" capability.
- Extensive track record.

APPLICATIONS

- Bridge plug setting.
- Straddle setting.
- High expansion gauge hanger setting.

BENEFITS

- Non pyrotechnic.
- Reduces risks associated with wireline mechanical manipulation.
- Setting force is applied in a controlled manner.
- Field redressable.

Technical Specifications

omega-intervention.com

Hydrostatic Setting Tool

Tool Size	1.750"	2.250"	2.700"	3.00" HP/HT	3.600"
Upper Connection (Slickline)	15/16" UNS	15/16" UNS	1-1/16" UNS	1-1/16" UNS	1-1/16" UNS
Upper Connection (E-line)	1-3/16" Gearhart Owen	1-3/16" Gearhart Owen	1-3/16" Gearhart Owen	1-3/16" Gearhart Owen	1-3/16" Gearhart Owen
Lower Connection	As Size 5 Baker E4	Proprietary	As Size 10 Baker E4	As Size 10 Baker E4	As Size 20 Baker E4
OD	1.75"	2.250"	2.700" (special 2.650" available on request)	3.00"	3.859"
Length	114"	106"	108"	112"	112"
Stroke	700"	700"	700"	700"	13.00"
Max Working Pressure	10,000 psi	10,000 psi	10,000 psi	11,000 psi	10,000 psi
Max Working Temp	165°C	165°C	165°C	185°C	165°C
Output Force.	10,000 lbs	20,000 lbs	30,000 lbs	30,000 lbs	55,000 lbs

* Other sizes and stroke lengths available on request.



omega-intervention.com

Pressure v Output Force Graph

Hydrostatic Setting Tool

