

# 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 a 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

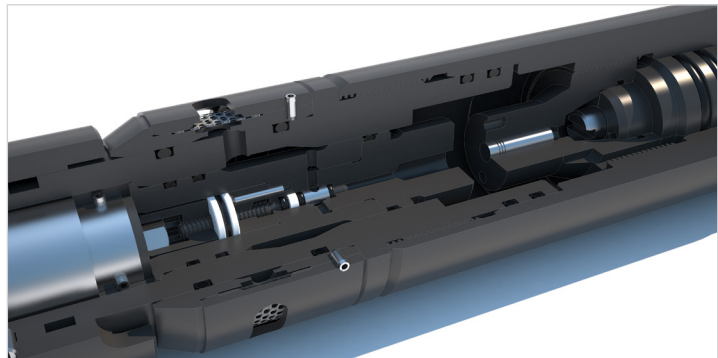
- Accurate time delay mechanism.
- Large output forces generated.
- High Pressure / High Temperature HST's available.
- Large "Stroke" capability.
- Extensive track record.

## 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

Tool Size	1.750"	2.250"	2.700"	2.700" (Long Stroke)	3.00" HP/HT	3.500"	3.600" (Single Piston)	4.00" HP/HT	4.125"	5.200"
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	1-1/16" UNS	1-9/16" 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	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 10 Baker E4	As Size 10 Baker E4	As Size 20 Baker E4	As Size 20 Baker E4	As Size 20 Baker E4	Proprietary
OD	1.75"	2.250"	2.700" (special 2.650" available on request)	2.700"	3.00"	3.500"	3.859"	4.00"	4.125"	5.200"
Length	113.00"	90.00"	88.00"	164.00"	88.00"	184.50"	109.00"	98.60"	98.00"	170.50"
Stroke	7.00"	7.00"	7.00"	15.00"	7.00"	31.00"	13.00"	10.00"	13.00"	20.00"
Max Working Pressure	10,000 psi	10,000 psi	10,000 psi	10,000 psi	15,000 psi	10,000 psi	10,000 psi	15,000 psi	10,000 psi	10,000 psi
Max Working Temp	165°C	165°C	165°C	165°C	190°C	165°C	165°C	190°C	165°C	165°C
Output Force.	Maximum output force 10,000 lbs with minimum 3000 psi inlet pressure.	Maximum output force 21,000 lbs with minimum 4000 psi inlet pressure.	Maximum output force 35,000 lbs with minimum 3000 psi inlet pressure.	Maximum output force 30,000 lbs with minimum 3000 psi inlet pressure.	Maximum output force 30,000 lbs with minimum 3000 psi inlet pressure.	Maximum output force 31,000 lbs with minimum 3000 psi inlet pressure.	Maximum output force 60,000 lbs with minimum 3000 psi inlet pressure.	Maximum output force 55,000 lbs with minimum 3000 psi inlet pressure.	Maximum output force 55,000 lbs with minimum 3000 psi inlet pressure.	Maximum output force 70,000 lbs with minimum 2000 psi inlet pressure.

