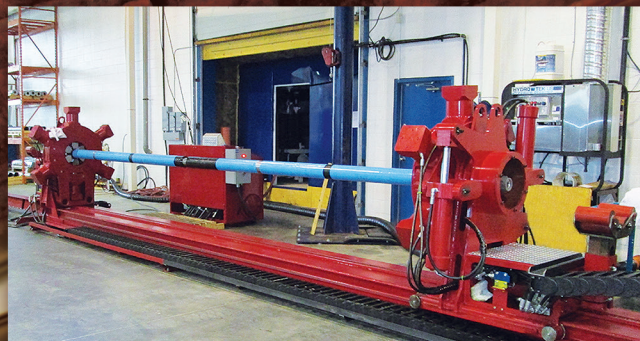
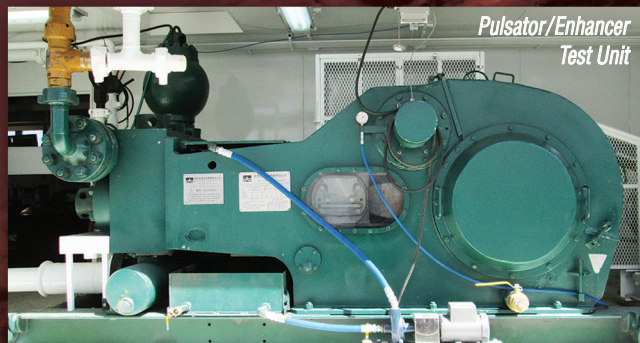




Torax Oil Tools Ltd.



Pulsator and Enhancer

Marketed by: Torax Oil Tools Ltd. Ph: 780.440.0134





Torax Oil Tools Ltd.

The **Genesis Pulsator** is a NEW and innovative tool that oscillates the drill string, reducing drill string friction, this in turn reduces stick slip when drilling with an oriented steerable motor as well as other applications.

The Genesis Pulsator is ran in conjunction with the Genesis Enhancer to create and enhance the tool for optimum results.

The magnitude of the pressure pulses created by the Pulsator is a function of the mud density and the flow rate through the tool. The Pulsator is designed with a special feature that allows the operator to adjust and fine tune the Pulsator to specific mud weights, flow rates, and rig pump capabilities making the tool field adjustable when or if required.

The Pulsator has flow passages bypassing the rotary valve where carbide nozzles can be installed to fine tune the Pulsator to specific mud weight, flow rates and rig pump capacity.

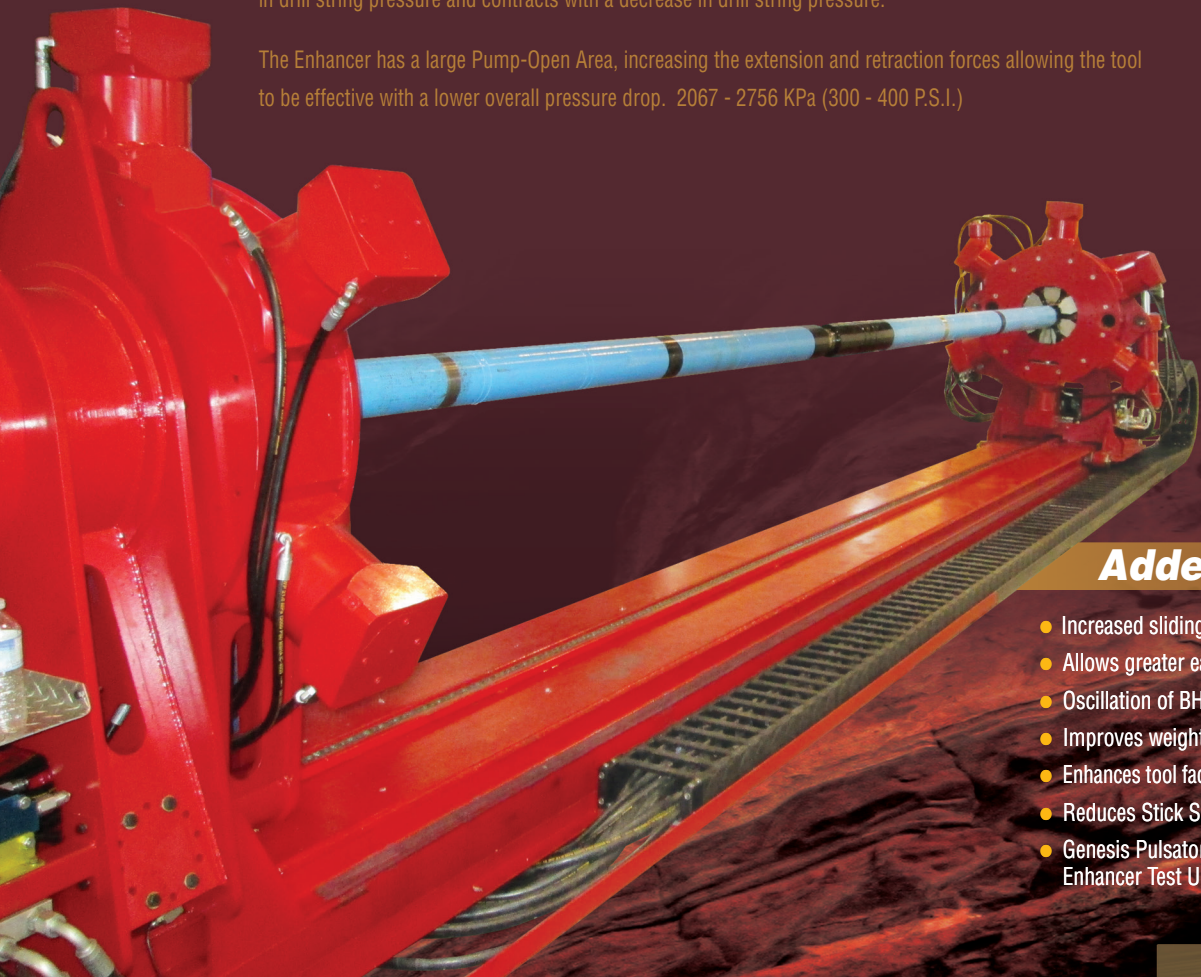
Genesis Valve

The Genesis Pulsator utilizes a balanced tungsten carbide rotary valve. The design virtually eliminates axial and radial loading, of valve components, prolonging valve, radial and axial bearing life.

Genesis Enhancer

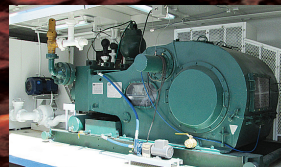
The Genesis Enhancer is a telescoping tool sprung in both directions, utilizing a stack of Belleville springs. The Enhancer extends with increases in drill string pressure and contracts with a decrease in drill string pressure.

The Enhancer has a large Pump-Open Area, increasing the extension and retraction forces allowing the tool to be effective with a lower overall pressure drop. 2067 - 2756 KPa (300 - 400 P.S.I.)



Added Features

- Increased sliding ROP
- Allows greater ease of operation of Drilling Jars
- Oscillation of BHA reducing friction
- Improves weight transfer
- Enhances tool face control
- Reduces Stick Slip
- Genesis Pulsator/ Enhancer Test Unit →



Pulsator and Enhancer

Genesis Pulsator

IMPERIAL

Nominal OD (inch)	Length (ft)	Flow Range (gpm)	Temperature Range (°F)	Maximum Overpull (lbs)	Operating Frequency (Hz)	Pressure Drop (psi)	Connections (in)
5 1/4	10.5	180 - 300	302	700,000	5.1 - 8.5	300 - 600	4 F.H
6 1/2	11.0	300 - 600	302	1,000,000	3.5 - 7.0	300 - 600	4 1/2 I.F

METRIC

Nominal OD (mm)	Length (m)	Flow Range (lpm)	Temperature Range (°C)	Maximum Overpull (daN)	Pressure Drop (KPa)
133	3.2	680 - 1,136	150	311,000	2,070 - 4,140
165	3.35	1,136 - 2,272	150	445,000	2,070 - 4,140

Genesis Enhancer

IMPERIAL

Nominal OD (inch)	Length (ft)	Pump Open Area (in ²)	Maximum Overpull (lbs)	Connections (in)
5 1/4	12.3	18.60	390,000	4 F.H
6 1/2	14.5	32.53	960,000	4 1/2 I.F

METRIC

Nominal OD (mm)	Length (m)	Pump Open Area (cm ²)	Maximum Overpull (daN)
133	3.7	120	173,390
165	4.4	210	427,000

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