

Pumping Services and Equipment

SERVICE CAPABILITIES

OVERVIEW

As an industry leader in oilfield services for over 100 years, Halliburton is the trusted name when it comes to pumping, with the equipment and experience to back it up. Our state-of-the-art fleet of pumping and mixing equipment is field-tested and proven, ready to meet your challenges.

Our pumping units are available in a broad range of configurations for both land and offshore applications, including basic pumping units, mixing / blending units, and multi-service units which combine the capabilities of both sets of equipment for a more streamlined service offering and reduced footprint on location.

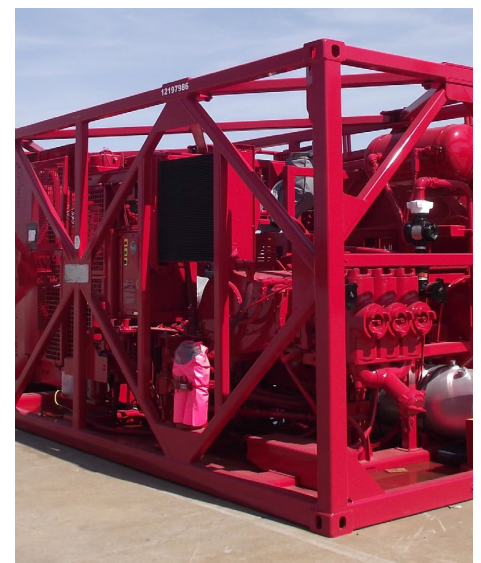
A number of our pumping units are equipped with advanced features such as remote control and other automation controls to provide a more reliable service with fewer specialist personnel required to manage an operation.

On-the-fly blending systems enable real-time adjustments of fluid blends to provide precise control of downhole fluid compositions and the ability to sample blended fluids for testing and verification anytime during the treatment.

From stand-alone applications to coiled tubing or rig support services, Halliburton is capable of providing a tailored solution to fit your target operation.

APPLICATIONS

- » **Stimulation** – stand-alone bullheading operations, or pinpoint placement through coiled tubing
- » **Acidizing** – multi-zone matrix applications or targeted zonal treatments
- » **Squeeze treatments** - from scale inhibitors to solvent flushes, our pumping services combined with our custom chemistry can help address your challenges
- » **Pressure testing** - casing, tubular, and surface equipment
- » **Toe preps** - initiator sleeve activation for hydraulic fracturing operations



Pumping Unit Configurations

Available Configuration	Max Pressure (psi)	Pump Rate Min - Max (bpm)	Additional Features
Twin Panther™	15,000	0.25 - 19.6	Remote control capability
HT-2000™	20,000	3.3 – 12.4	Remote control capability
Grizzly™	11,200	1 - 20	Remote control capability
C15 NEC Pump Skid	20,000	0.25 – 5.5	ATEX Class I Zone II DNV 2.7-3

Combination Pumping / Mixing Unit Configurations

Available Configuration	Max Pressure (psi)	Pump Rate Min - Max (bpm)	Additional Features
APR-2000	14,000	0.25 - 6	On-the-fly dry and liquid additives 2,000 gal acid/water tank
ELITE™	14,000	0.25 – 15.2	4 x Liquid additive pumps 2 x 10 bbl mixing tubs
AMP™ 1600	15,000	0.5 – 15.6	3 x Liquid additive pumps 2 x 10 bbl mixing tubs
Combo Blender	20,000	0.25 – 9.8	4 x Liquid additive pumps 10 bbl mixing tub 3" Sand screw

Mixing Unit Configurations

Available Configuration	Pump Rate Min - Max (bpm)	Additional Features
AOF Blending System	0.25 - 15	Automatically controlled 7 x Liquid additive pumps On-the-fly blending capability



For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

Sales of Halliburton products and services will be in accord solely with the terms and conditions contained in the contract between Halliburton and the customer that is applicable to the sale.

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