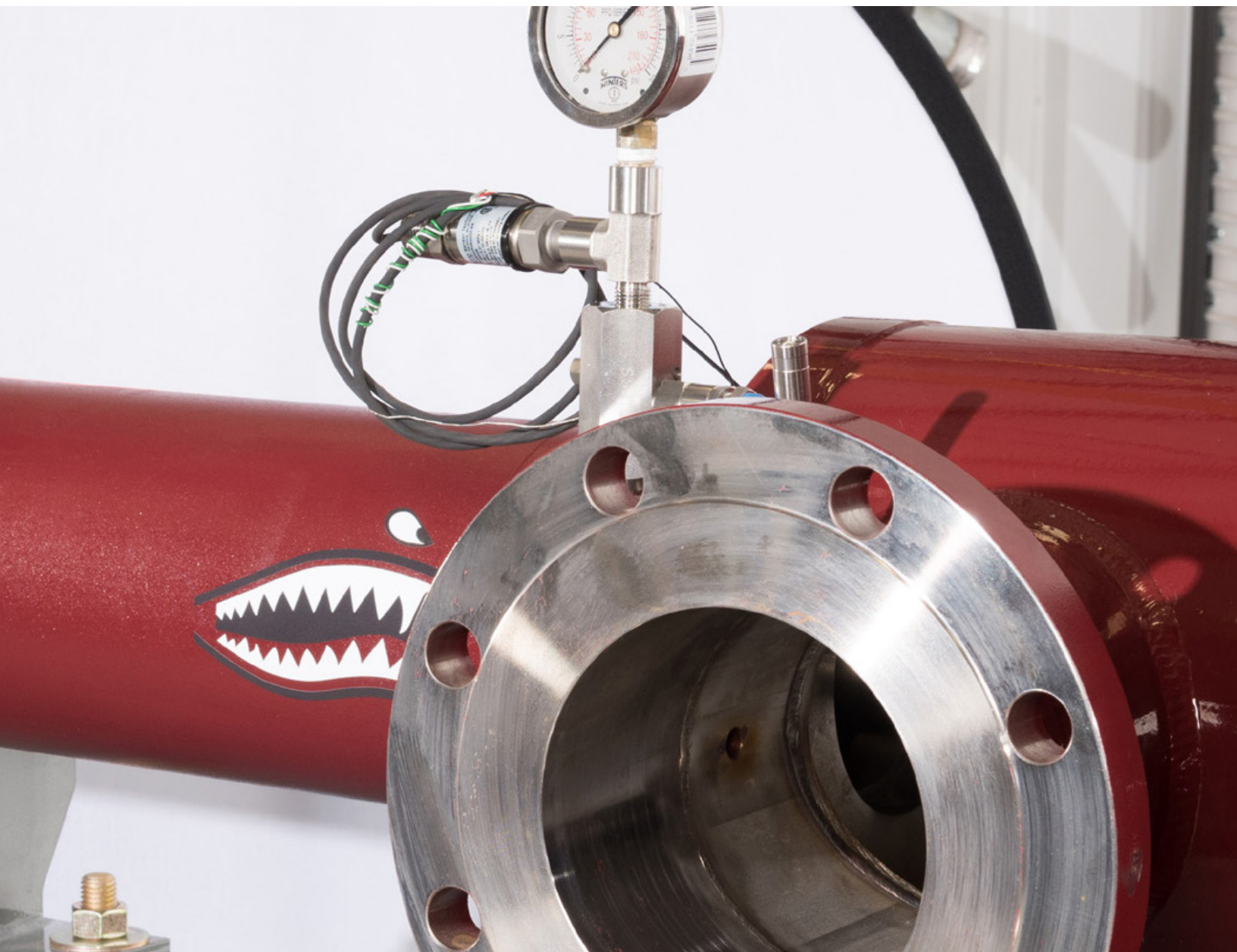




# Hercules™ horizontal pumping systems

Strong. versatile. efficient.



# Versatile horizontal surface pumping systems for conventional or unconventional plays

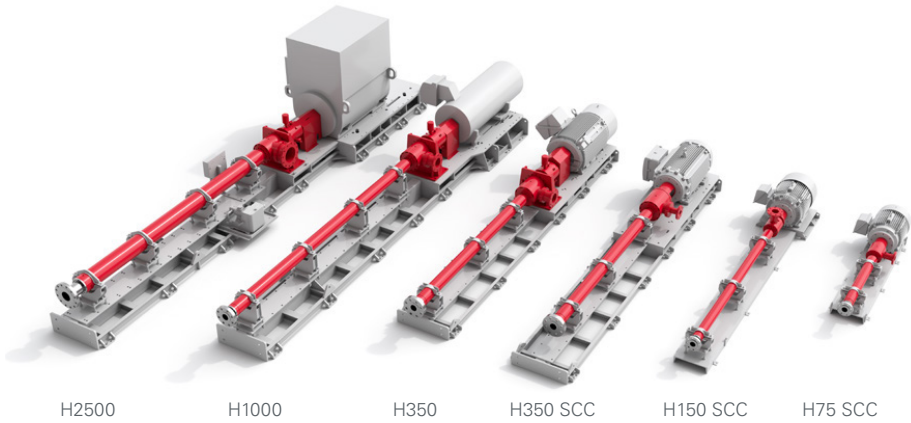
### APPLICATIONS

- Produced salt water disposal (SWD) and injection
- Crude oil transfer/boosting
- Liquid CO<sub>2</sub> boosting/injection
- Lean amine pumping (gas treating)
- NGL/light hydrocarbon, crude oil pipeline booster
- Cavern storage/salt dome leaching
- Boiler/steam-generator-feed pumps
- Jet pump – power fluid pumps
- Lease automatic custody transfer (LACT) booster
- Mine dewatering

### BENEFITS

- Lower initial operating and maintenance costs
- Modular design with short lead times on new and replacement equipment
- Flexible designs from 800 BPD to 70,000 BPD (23 USgpm to 2,000 USgpm)
- Back pull-out thrust chamber
- A single low-pressure mechanical seal
- Minimal noise and vibration; pulse-free flow
- Health, safety, and environment (HSE) friendly

Summit ESP® – A Halliburton Service offers a horizontal surface pumping system as an efficient alternative to positive- displacement, split-case, and other surface pumping options. The system design is based on our proven electric submersible pump (ESP) systems already in use in thousands of downhole applications. The multistage centrifugal pump is mounted securely on a modular skid, powered by a two-pole motor, and protected by a robust thrust chamber.



### Close-coupled (SCC) surface pumps

For applications of 20 hp to 350 hp, the SCC surface pumps use the motor bearings to absorb pump thrust and is ideal for smaller water injection, amine, crude oil transfer, or LACT applications.

# Typical applications



**Location:** Saskatchewan, Canada  
**Application:** Crude Oil Pipeline Booster  
**Conditions:** 37,500 bpd at 575 psi discharge pressure  
**Equipment:** 3 x 8 stage SN35000 pump / 400 hp 460v motor



**Location:** North Dakota, USA  
**Application:** Produced Salt Water Disposal (SWD)  
**Conditions:** 12,000 bpd at 1,250 psi discharge pressure  
**Equipment:** 29 stage SH12000 pump / 400 hp 460v motor



**Location:** Permian Basin, New Mexico, USA  
**Application:** Crude Oil Transfer  
**Conditions:** 37,000 bpd at 800 psi discharge pressure  
**Equipment:** 22 x 13 stage SN35000 pump / 700 hp 460v motor



**Location:** Permian Basin, Texas, USA  
**Application:** Trailer Mounted - Produced Salt Water Disposal (SWD)  
**Conditions:** 13,000 bpd at 2,100 psi discharge pressure  
**Equipment:** 235 stage SH13000 pump / 600 hp 460v motor

### Well surveillance and monitoring service

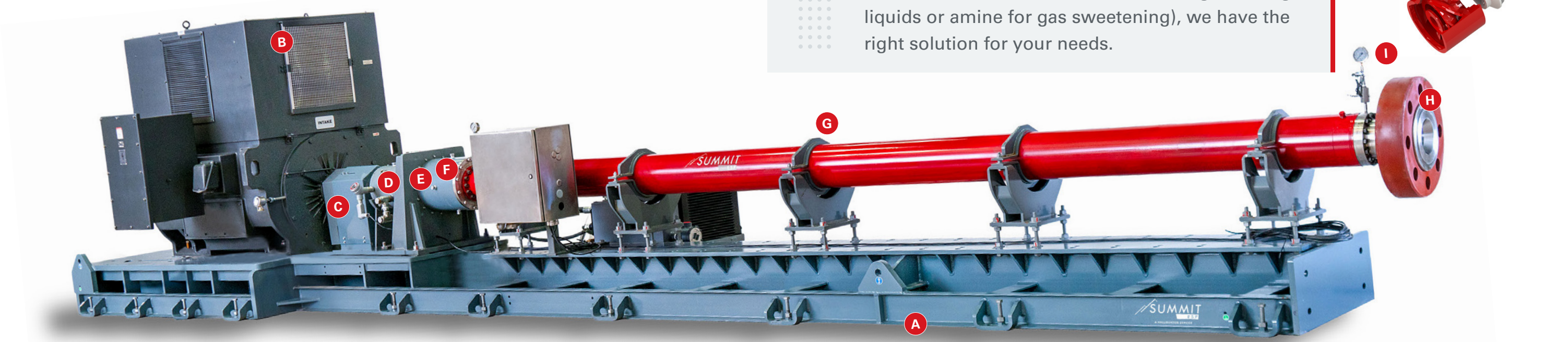
Using proprietary web-based applications engineering software, our engineers mathematically model operating conditions of downhole equipment and the inflow characteristics unique to each well, allowing them to fine-tune operating conditions. Our well surveillance monitoring service also allows the customer to avoid nuisance trips to the site by remotely starting and stopping the unit and adjusting setup points such as intake pressure, discharge pressure, and speed of the unit.



24/7 monitoring, integrated with proprietary web-based sizing, equipment, and field service tracking, gives customers a 360° view of their systems



# Features



Whether your application is upstream/midstream (using produced water injection, CO<sub>2</sub> injection, or crude oil transfer) or downstream (using natural gas liquids or amine for gas sweetening), we have the right solution for your needs.

## A. Heavy-duty skid

- Modular skid, designed using extensive finite element analysis (FEA)
- Hoist mounting points to simplify installation

## B. Motor

- Power units available from 20 hp to 2,500 hp (15 kW to 2,000 kW)
- Electric motor options include TEFC, WPIL, TEAAC, with area classification Class I Div II; other options available
- Diesel, natural gas engine, steam or gas turbine

## C. Balanced spacer coupling

- Maintenance free and helps reduce vibration
- Facilitates quick mechanical seal replacement without breaking pump or piping connections

## D. Thrust chamber

- Designed for increased reliability, seal support, and access
- Back pull-out for quick seal changeout
- Seal failure will not contaminate thrust chamber
- Minimal routine maintenance required

## E. Mechanical seal

- Single seal assembly, exposed only to intake pressure
- Available in component or various cartridge seal designs
- API 682 and all applicable API flush and quench plans to meet customer and application requirements

## F. Intake and suction flange (not shown)

- 316SS ANSI raised face flange is standard; other materials and types are available up to 3,000 psi (207 bar)
- Intake can be rotated in 90° increments to accommodate suction pipework

## G. Pump

- Flow range of pumps covers 800 BPD to 70,000 BPD (23 USgpm to 2,000 USgpm)
- Discharge pressures up to 7,100 psi (500 bar)
- Mixed-flow stage design for reduced abrasive wear, optimal efficiency, and head per stage
- Ni-Resist iron is standard stage material; other materials available upon request
- Tungsten carbide or GRAPHALLOY® bearings are available for wear resistance or low-lubricity fluids, respectively
- Tiger Shark® pump option to reduce pump thrust

## H. Discharge flange

- Lap-joint type, comprising 316SS wetted parts and CS flange, compatible with ANSI standards
- Available in raised face or RTJ classes up to 5,500 psi (380 bar)
- API flange options available for higher pressures

## I. Instrumentation

- Standard offering is intake and discharge pressure transmitter and vibration switch
- Skid-mounted junction box is available to provide single-point wiring
- Available in standard and explosion-proof enclosures, and customizable to suit customer or application requirements

GRAPHALLOY® is a registered trademark of Graphite Metallizing Corporation

# Locations

## Worldwide headquarters

OKLAHOMA			
Sales / Service / Manufacturing			
835 West 41st Street South Tulsa, OK 74107 918-392-7820	PO Box 9616 Tulsa, OK 74157	SummitHPS.com SummitHPS@halliburton.com	

## North America

CANADA			
Sales / Service	Sales / Service / Manufacturing	Sales / Service	Sales
Calgary, Alberta, Canada 403-231-9300	Leduc, Alberta, Canada 780-612-2700	Saskatchewan, Canada 780-612-2700	Clairmont, Alberta, Canada 780-513-8888
ALASKA			
Sales	Service	Service	Sales / Service
Anchorage, AK 907-344-2929	Prudhoe Bay, AK 907-670-5959	Kenai, AK 907-335-0152	Bakersfield, CA 661-393-8111
COLORADO	MONTANA	NORTH DAKOTA	OKLAHOMA
Sales	Service	Service	Service
Denver, CO 720-590-6613	Baker, MT 307-764-6346	Ross, ND 307-764-6346	Balko, OK 918-392-7820
OKLAHOMA			
Service	Sales / Service / Manufacturing	Sales / Service / Manufacturing	Service
Enid, OK 918-392-7820	Oklahoma City, OK 405-623-2734	Tulsa, OK 918-392-7820	Hermleigh, TX 432-563-7040
TEXAS		WYOMING	
Sales	Sales / Service / Manufacturing	Sales / Service	Sales
Houston, TX 832-804-9960	Odessa, TX 432-563-7040	Evansville, WY 307-224-5108	Cody, WY 307-764-6346
WYOMING			
Sales / Service / Manufacturing			
Powell, WY 307-764-6346			

## Europe & Africa

NETHERLANDS	
Sales	Sales / Service
Amsterdam, Netherlands +31-2080-87502	Emmen, Netherlands +31-5916-36111

## Middle East & Asia

KUWAIT	OMAN
Sales / Service	Sales / Service
Mina Abdullah, Kuwait +965-9441-2809	Muscat, Oman +968-2462-3475

## Latin America

ARGENTINA		COLOMBIA	
Sales / Service / Manufacturing	Sales	Sales	Service / Manufacturing
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ECUADOR	VENEZUELA		
Sales	Sales / Service	Sales / Service	
Quito, Ecuador +593-2-3971700	Santa Rita, Venezuela +58 2642-00-0999	Venezuela +58 2913-00-2283	



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**For more information, contact your local Halliburton representative or visit us on the web at [www.halliburton.com](http://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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