

NUMBER ONE IN  
CASING EQUIPMENT

**SUMMIT**  
CASING EQUIPMENT



## WE'VE GOT YOU COVERED

When you needed it yesterday, call on Summit today! We provide float equipment, flotation subs, toe sleeves, inflatable packers, plugs, stage tools, centralizers, and more; all designed to exacting standards to deliver the performance you expect.

Summit's industry-leading products are manufactured to the highest quality standards and are delivered and serviced directly to your wellsite. Unlike multi-tool, multi-service providers, we're singularly focused on meeting your casing challenges. We service the rig, so you can stay tough in the field.

### RESPONSIVE CUSTOMER SUPPORT

Summit's customer support teams are always on call, 24 hours a day. Our people are ready to overcome any obstacle, doing everything needed to meet your casing equipment needs.

### SERVICE AT THE RIG

Our highly trained field service technicians are always available to run mechanical stage tools, inflatable packers, flotation subs, and wet shoes at your rig. It's the service and competence you expect from the best team in the business.

### EXPERT ENGINEERING

Summit's engineering, manufacturing and quality control team are always at work to ensure the reliability, efficiency, and innovation of our casing products – and are here to customize any product to meet your unique casing challenges.

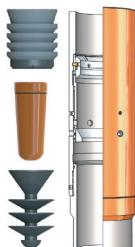
### WELL OPERATION SOFTWARE

As part of our rig services, Summit offers comprehensive well operation software, allowing us to pinpoint and personalize each drill site. With optimum schematics for centralizer placement along with torque and drag modeling, this software helps our teams deliver maximum performance in the field.



# PRODUCTS THAT PERFORM

## STAGE TOOLS “STANDARD, COMPOSITE AND HYDRAULIC”



Summit's stage tool offerings include a standard design tool and a fully composite tool that eliminates 100% aluminum components in the tool for faster drill outs in one bit trip. Our fully composite tool features an average drill out time of 11 minutes and reduces the likelihood of bit damage.

Designed for use in wells with weak formations and/or lost circulation zones, Summit Stage Tools can be used in areas of the wellbore that require isolation, ensuring well integrity when low hydrostatic pressure must be maintained. Our stage tools deliver an impressive 99.7% success rate, with a range of cancellation and contingency options available. Slim hole design tools are also available.

Summit's Hydraulic DV tool hydraulically opened by internal applied casing pressure eliminating the need for a free-fall opening cone. Increased pressure shears a set of opening pins, allowing the opening sleeve to move down across the ports, opening the tool. The standard operating equipment for a Summit Hydraulic DV Tool is a Shut-Off Plug and Closing Plug.

## GLASS FLOTATION SUBS

Summit's Casing Runner Glass Flotation Sub allows operators to float casing to bottom in long laterals and reduces the likelihood of needing to wash and ream casing to bottom. The casing below the flotation sub is left empty creating buoyancy that significantly reduces friction and drag forces through the lateral while the weight of fluid drives the casing to bottom. Summit's Casing Runner utilizes a tempered glass material capable of withholding extreme levels of differential pressure and a brass shear ring that holds tight shear tolerances of +/- 5% of expected rupture rating at ambient and elevated temperatures.



## INFLATABLE CASING PACKERS



Summit inflatable casing annulus packers are suitable for cased and open hole in horizontal and vertical applications, providing a reliable, field-proven system that provides consistent zonal isolation, protection, and security. Built on a mandrel equivalent to well casing, the packer maintains burst, collapse and tensile integrity throughout the casing section, expanding to 2.5 times run-in diameter.

## TOE SLEEVES

Summit offers the AccuJet Toe Sleeve, capable of either differential or absolute pressure activation, and the Howitzer Toe Sleeve which is used to both pressure test completion string integrity and establish communication to the formation proper to stimulation operations.

The AccuJet is capable of either differential or absolute pressure activation. It delivers accurate opening pressure within +/- 3%.



The innovative design of the Howitzer allows operators to pressure test their production casing to maximum working pressure with no time limitations prior to the sleeve opening on bleed down.



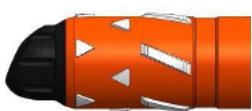
## FLOAT EQUIPMENT & REAMER SHOES



Summit Float Equipment features our exclusive Pro Guard valves for superior sealing performance at both low and high pressures. Summit has engineered float equipment capable of withstanding 5,000 psi, 10,000 psi and 15,000 psi back pressure capabilities. Each component is engineered and tested to exceed API 10F specification requirements. Phosphate and powder coatings provide corrosion and galling prevention, for extreme downhole performance. A variety of sizes, casing grades, weights, threads, valves, and nose configurations are available.



Our Razer Reamer Shoes help you get to total depth faster, no matter the obstacles. A unique eccentric nose maximizes maneuverability around obstructions and minimizes the amount of material removed during drill out. A unique design featuring Tungsten Carbide profile pads allows the reamer to pass through tight spots, while providing positive flow distribution for the debris to flow up hole and eliminate disturbances.



Looking for faster drill-outs? Summit float equipment and reamer shoe noses can be designed with a composite nose for faster drill out. Ask about our field study! Our composite nose material is our proprietary material which we mold in-house for tightened quality control. We also offer a Heavy Duty Reamer Shoe for aggressive formations, which features an eccentric bronze nose with lead cutting buttons.

## CASING WIPER PLUGS

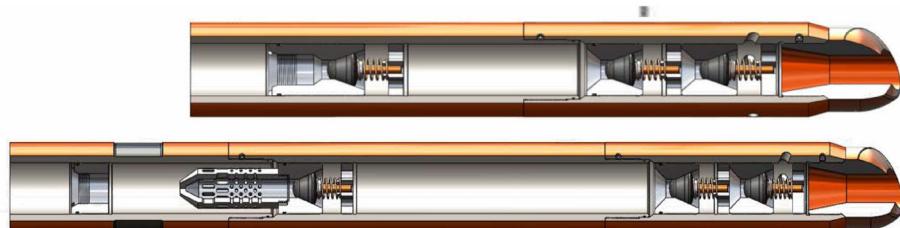
Summit utilizes an urethane plug material which is known for excellent abrasion resistance and added wiping efficiencies. Our abrasion resistance is further improved by the addition of Summit's proprietary additive blend which exhibits a 6.5x wear resistance compared to other industry materials. Ask us about our competitor testing!

Various types of plugs are available from Summit Casing Equipment, including Non-Rotating or Standard Top and Bottom Plugs and Latch-in Plugs. We mold all plugs in-house.



## SHOE TRACK SUBS

The Summit Shoe Track Sub combines an eccentric nose float shoe, a float collar with optional incorporated debris catcher, and a latch-in profile into a sub design used for wet shoe applications, casing flotation applications, or conventional cementing purposes. The sub reduces the overall shoe track length, eliminates several premium casing connection cuts, and allows more pipe to stretch across the production zone. The float valves are engineered and tested to exceed AP10F ratings for 10,000 psi and 15,000 psi back pressure ratings and the optional incorporated debris catcher will catch up to 99.6% of debris from ceramic or glass flotation applications.





## COMPOSITE CENTRALIZERS

Summit's lineup of tough, lightweight, one-piece composite centralizers are designed for horizontal applications. It's revolutionary design features state-of-the-art composite material and construction providing an extremely low coefficient of friction up to 4.7 times lower and a 40% weight reduction over other centralizers. Our static coefficient of friction is 0.17 with OVER 800,000 SOLD! This centralizer is available in both straight and spiral blade configurations. With no vulnerable weak points, Summit centralizers resist high impact and wear, while maintaining integrity even in extreme temperatures.

## NON-WELD, SINGLE PIECE CENTRALIZER, THE PATRIOT-TD

Engineered for difficult applications such as deviated, horizontal, and ERD wells, Summit's Patriot-TD Centralizer is a non-weld, one-piece integral constructed bowspring centralizer perfect for these extreme applications. The Patriot-TD Centralizer is the best centralizer on the market and outperforms similar competitor bows in standoff percentage, restoring forces and deflection distance. The Patriot-TD Centralizer features contour bows that are formed to the specific open hole diameter minimizing drag and producing 0 starting and running forces.



## HINGED BOWSPRING CENTRALIZERS

Summit Go Flex Bow Centralizers are fabricated with high quality alloy steel to provide optimum flexibility and reliability. Each tool is engineered to provide low starting forces (nearly 13 times lower than the maximum industry requirement), while maintaining a high restoring force up to 5.7 times higher than our competitors.



## SOLID BODY CENTRALIZERS

Summit's solid body centralizers are fabricated with ASTM grade steel to perform in the most challenging conditions and are customizable to any application. Blade designs feature a blade leading edge that is designed to minimize torque and drag. Blade configurations include straight, spiral and half-moon shaped blade (which minimizes contact area while maintaining required standoff). Custom designs can be engineered upon request for special applications.



## ACCESSORIES AND PREMIUM THREADS

We provide a wide variety of accessories including Stop Collars, Cement Baskets, Scratchers, Thread Compound, and Pipe Dope. Many different thread options are available with Summit including numerous proprietary threads.



## GO STRAIGHT TO THE TOP

At Summit, we eliminate the middleman to provide a single, dependable point of contact, with a team that is committed to meeting and exceeding your expectations.

With a strong presence throughout the United States and an emerging presence globally, our products and people are right where you need them. We're on call every day of the year, taking equipment orders, offering product solutions, finalizing paperwork, delivering equipment, and servicing the rig.

### ALL THE CASING EQUIPMENT YOU NEED, WHERE YOU NEED IT

Summit is your one-stop source for all the casing products and expertise required to meet your casing challenges. Headquartered in Fort Worth Texas, we proudly manufacture our products in the USA. We have multiple stocking locations and service Texas, New Mexico, Oklahoma, Louisiana, Colorado, Wyoming, Utah, North Dakota, Montana, Ohio, West Virginia and Pennsylvania.

### QUALITY MANUFACTURING AND QUALITY ASSURANCE

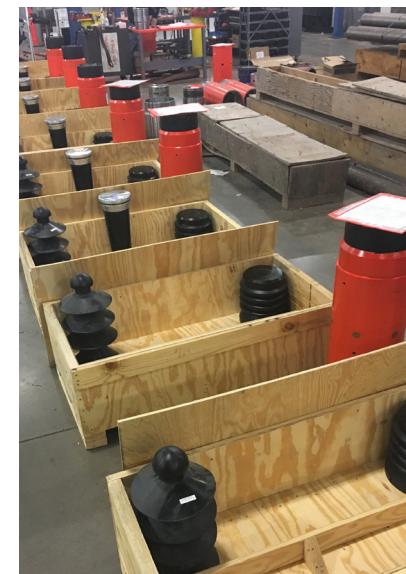
Our Fort Worth manufacturing facility is API Q1 registered and ISO 9001 certified, delivering product quality and performance you can count on every day, on every rig. We maintain an ISO 9001 Quality Assurance program to ensure the quality of every product we sell.

### HEALTH, SAFETY & ENVIRONMENTAL (HSE)

Summit Casing Equipment's goal is to ensure that our policies and activities protect and promote the health and safety of our customers, our employees, and the environment. To achieve this, all our team members are committed to complying with all applicable safety and environmental regulations and standards during all activities and operations.

### PACKAGE THE ENTIRE STRING

Summit can provide the entire string for a packaged price! Summit's packaged offerings not only lead to savings but also streamlined logistics, with a one-call approach and a single delivery rate. Just ask us for details. Our team will design a string that offers performance tailored to your well's exact requirements.





Headquartered in Fort Worth, TX

Texas | New Mexico | Oklahoma | Louisiana  
Colorado | Wyoming | Utah | North Dakota  
Montana | Ohio | West Virginia | Pennsylvania

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