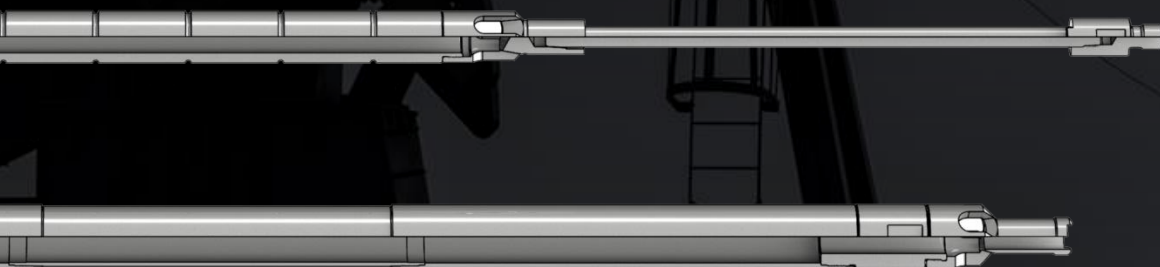




**LEADERS & INNOVATORS OF
ROD PUMPING TECHNOLOGY**

COMPANY BROCHURE

**TRUSTED SUCKER ROD LIFT
MANUFACTURER AND SOLUTIONS
PROVIDER SINCE 1982**



1982

Founded in 1982 by Mike Bair, Jim Hurd & Tom Cacek.

1980s

Survived the late 80's oil glut by delivering innovative solutions and superior service.

2008

Pro Rod services was added in 2008.

2010

Mike Bair purchases all shares of the company in 2010.

2011

Major investment in people, plant & manufacturing in 2011.



**EXPERTS IN WELL OPTIMIZATION
SINCE 1982, OVER \$500MIL IN
PRODUCTION SAVINGS**



2012

ESP division was added to Black Gold Pump & Supply in 2012. Expanding our offerings to better serve our customers.

2013

2013 was a milestone for the company as we achieved ISO 9001:2008 certification.

2015

Another major achievement for Black Gold Pump & Supply Inc, achieving the coveted API Spec Q1 certification.

2017

Black Gold Australia was formed, expanding our reach to Australia and the Asia Pacific Region.

2019

Recognise globally as a leader and innovator of rod pumping technology. Providing dedicated solutions and services to the industry.



**SOLUTIONS
TRUST**



EXPERIENCE



**OVER 50,000 SUCCESSFUL WELL
DESIGNS SINCE 1982**

PRESIDENT'S MESSAGE

Black Gold Pump & Supply, Inc. started as a solutions-based company, and we will remain a solutions-based company no matter our growth or global reach. It is too important not to stay focused on the customers' needs and help solve the challenges the customers face.

Black Gold wants to see the customer succeed because if they are successful, we are successful, and the industry grows.

Black Gold's main objective is to help our customers keep the wells online for as long as possible to make the wells as economical as possible, so we can continue to see growth in fields by drilling more wells and putting more wells online.



Mike Bair

Founder, Black Gold Pump & Supply, Inc.



DEDICATION

TO PERFECTING OUR PRODUCTS & SOLUTIONS. WE ARE CONSTANTLY PROVIDING THE LATEST INNOVATION TO THE INDUSTRY.



ABOUT BLACK GOLD PUMP & SUPPLY

Since 1982, Black Gold Pump & Supply, Inc. of Signal Hill, California, has been a supplier of parts and services to the oil industry. We design, engineer, machine, and manufacture custom parts to support our customers' needs.

Black Gold Pump & Supply has emerged as a company trusted by leading industry engineers, major oil companies, and independents alike. We have earned our reputation for fine quality parts, and excellent customer service the old-fashioned way through hard work, consistent results, and cost cutting. Our parts and services have continued to satisfy our customers by saving costs in rig time, rod and tubing replacement, field maintenance, and even pump repairs.

Black Gold Pump & Supply is a leading expert in production well analysis. We work with our clients to problem-solve any down hole, or surface issues that need amending. We want to help raise production, and get the maximum amount of fluid, at the slowest unit speed possible; ensuring greater efficiency. Black Gold Pump and Supply is the most experienced in the industry when it comes to servicing your sucker rod pumps, hydraulic & mechanical anchors, drains, H-tools, on & off tools, stuffing boxes, rod and tubing rotators, fishing tools, acid tools, tubing bailers, pump off controllers, pumping units, and much more.

You can expect Black Gold Pump & Supply to provide detailed engineering reports, take pictures of all corrosion and causes of pump failure, and keep samples of sand, scale, and chemical build-up. We do this to provide our customers with a personal review analysis, in working with the production foremen and engineers to prevent future failures.



11AX-0134



Q1-2618

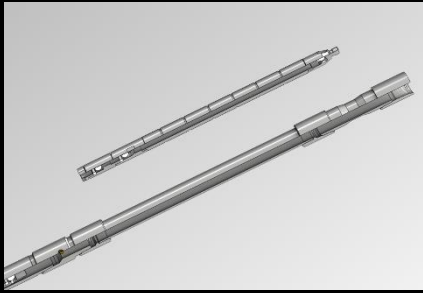


LEADERS

A black and white photograph of an oilfield. In the foreground, a large stack of dark metal pipes is neatly arranged, receding into the distance. In the background, a tall drilling rig stands next to a wellhead. A truck is parked to the left of the rig. The sky is overcast.

**WORDWIDE LEADERS IN
PRODUCTION WELL
ANALYSIS**

PRODUCTS & SERVICES



API 11AX ROD PUMPS

We manufacture API 11AX standard rod insert & tubing pumps at our API Q1 Spec certified facility. Our line of API pumps includes RWAC, RWBC, RHAC, RHBC, RXBC, RWTC, RSTC, TH and OTP pumps. All pumps and parts are 100% made in our facility in California, USA.



SPECIALTY PUMPS

We have designed & engineered specialty pumps to solve tough pumping conditions that are above the capabilities of the standard API 11AX pumps. These specialty pumps are designed for high solids & sand pumping, gas interference, high production requirements and many more.



PRODUCTION TOOLS

Decades of experience, research, development, and field trials has led to Black Gold developing our own patented production tools. These IP products are designed to solve most rod pumping challenges such as gas, alignment, anchoring, draining issues and much more.



MANUFACTURING

We have a state-of-the-art manufacturing facility that is ISO9001:2008 and API Q1 spec certified. All manufactured products are of the highest quality and are tested and inspected under strict quality control.



ENGINEERING & ANALYSIS

We are committed to be more than a pump & equipment manufacturer. We provide well design & optimisation, well analysis and troubleshooting. We had helped improved the productivity and efficiency of thousands of wells all around the world.

API 11AX ROD PUMPS



RHAC PUMPS

RHAC Pumps are heavy wall barrel top cup hold-down stationary type insert pumps suitable for shallow, sandy & gassy wells.

Typical sizes are:

- 2-3/8 x 1-1/4
- 2-3/8 x 1-1/2
- 2-7/8 x 1-3/4
- 3-1/2 x 2-1/4

API Designation:

- 20-125-RHAC
- 25-150-RHAC
- 25-175-RHAC
- 30-225-RHAC



RHBC PUMPS

RHBC Pumps are heavy wall barrel bottom cup hold-down stationary type insert pumps suitable for deeper wells with lower fluid levels.

Typical sizes are:

- 2-3/8 x 1-1/4
- 2-3/8 x 1-1/2
- 2-7/8 x 1-3/4
- 3-1/2 x 2-1/4

API Designation:

- 20-125-RHBC
- 25-150-RHBC
- 25-175-RHBC
- 30-225-RHBC



RWAC PUMPS

RWAC Pumps are thin wall barrel top cup hold-down stationary type insert pumps suitable for shallow, sandy & gassy wells.

Typical sizes are:

- 2-3/8 x 1-1/4
- 2-3/8 x 1-1/2
- 2-7/8 x 2
- 3-1/2 x 2-1/2

API Designation:

- 20-125-RWAC
- 20-150-RWAC
- 25-200-RWAC
- 30-250-RWAC



RWBC PUMPS

RWBC Pumps are thin wall barrel bottom cup hold-down stationary type insert pumps suitable for deeper wells with lower fluid levels.

Typical sizes are:

- 2-3/8 x 1-1/4
- 2-3/8 x 1-1/2
- 2-7/8 x 2
- 3-1/2 x 2-1/2

API Designation:

- 20-125-RWBC
- 20-150-RWBC
- 25-200-RWBC
- 30-250-RWBC

API 11AX ROD PUMPS



RWTC PUMPS

RWTC Pumps are thin wall barrel bottom cup hold-down travelling type insert pumps suitable for shallow, sandy wells where intermittent pumping is required.

Typical sizes are:

- 2-3/8 x 1-1/4
- 2-3/8 x 1-1/2
- 2-7/8 x 2
- 3-1/2 x 2-1/2

API Designation:

- 20-125-RWTC
- 25-150-RWTC
- 25-200-RWTC
- 30-250-RWTC



RXBC PUMPS

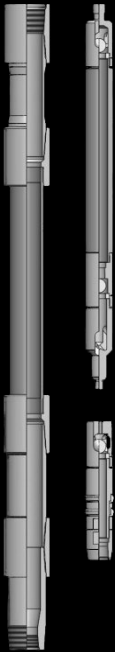
RXBC Pumps are heavy wall barrel bottom cup hold-down stationary type insert pumps suitable for deeper wells with more gas in the fluid.

Typical sizes are:

- 2-3/8 x 1-1/4
- 2-3/8 x 1-1/2
- 2-7/8 x 2

API Designation:

- 20-125-RXBC
- 25-150-RXBC
- 25-200-RXBC



TH PUMPS

TH Pumps are heavy wall barrel type tubing pumps suitable for deeper wells that produces sand, scale, paraffin and high level of gas. It is used in deviated & horizontal wells.

Typical sizes are:

- 2-3/8 x 1-3/4
- 2-7/8 x 2-1/4
- 3-1/2 x 2-3/4
- 4-1/2 x 3-3/4

API Designation:

- 20-175-THC
- 25-225-THC
- 30-275-THC
- 40-375-THC



RSTC PUMPS

RSTC Pumps are thin wall, soft packed travelling barrel, bottom anchor design insertable pumps.

Typical sizes are:

- 2-3/8 x 1-1/4
- 2-3/8 x 1-1/2
- 2-7/8 x 2
- 3-1/2 x 2-1/2

API Designation:

- 20-125-RSTC
- 20-150-RSTC
- 25-200-RSTC
- 30-250-RSTC

SPECIALTY ROD PUMPS



BARREL LENGTH PLUGGER PUMP

Designed to improve pump efficiency and run times in the presence of sand, scale, and/or trash. Plunger assembly is designed to keep sand in suspension and to prevent sand from settling between the plunger and barrel. The plunger is wiped clean after every downstroke, mitigating the possibility of a stuck pump. Traveling and standing valve cages have a double valve to increase the potential run life of the pump

Standard sizes are:

1-1/4" – 3-3/4" Bore

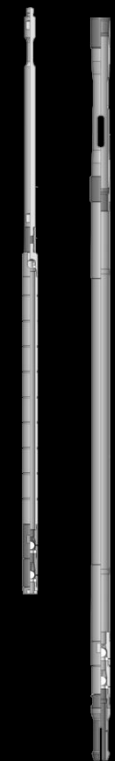


NON-COMPRESSION PUMP

The Black Gold Non-Compression Pump doesn't have a standing valve which eliminates the problem of solid/sand settlement on top of standing valve, it also has a vacuum compression chamber which mitigates gas interference and locking. The combination of these attributes make the Black Gold Non-Compression pump an ultimate solution for gassy wells with solid handling challenges.

Standard sizes are:

1-1/4" – 3-3/4" Bore

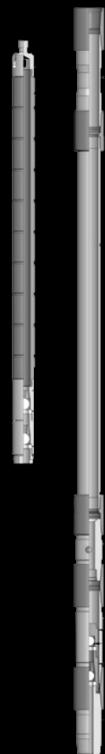


BLACK GOLD INSERT PUMP

Black Gold's Insert Pump uses a special configuration at the top of the pump that replaces the typical valve rod guide. This allows production on the upstroke to have less restrictive flow, reducing the turbulence at the upper section. Double valves are used to ensure that you will always have a proper seal in your valves. The configuration shown displays a bottom lock brass mechanical hold down.

Standard sizes are:

2-1/4, 2-3/4", 3-1/4"



BLACK GOLD TUBING PUMP

Black Gold's Tubing Pumps are double valved and full open. A knock out drain with a brass plug is available for 1-1/2" and above. To actuate the knock out drain, the plunger assembly is pulled and a bar is dropped downhole to break the brass plug, allowing the tubing to drain. Nylon or steel inserts are available for 2-3/4" and above configurations.

Standard sizes are:

1-1/4 – 2-3/4"

SPECIALTY ROD PUMPS



GAS & STEAM PUMP

The Gas & Steam Pump creates a continuous flow of gas/fluid mixture through the pump on both the up and down stroke which reduces the risk of gas compression in the Lower Barrel, a problem seen in high yield gas wells running conventional rod pumps.

Standard sizes are:

1-1/2" – 3-1/4"

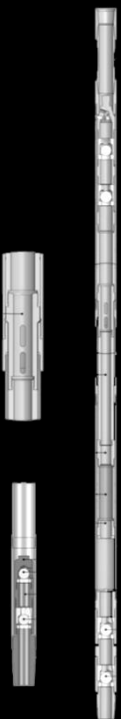


STROKE THROUGH PLUNGER PUMP

Black Gold's Stroke Trough Plunger Pump is designed for wells with sand, scale, and/or trash. Based off your well conditions and unit, a shorter barrel is used with long extensions and plunger. As the pump strokes, the plunger is always protruding out of the barrel. With this combination, the chances of a pump sticking is greatly reduced.

Standard sizes are:

1-1/4" – 4-3/4"



DOUBLE DISPLACEMENT PUMP

Black Gold's Double Displacement Pump is ideal for applications involving restricted pump bore size due to small casing diameters. This pump increases production without having to upsize the pump bore or pumping unit. On the upstroke, fluid is produced like a normal tubing pump. On the downstroke, the added production is pushed into the production tubing. These pumps are all double valved for improved run life.

Standard sizes are:

1-1/4" – 3-3/4"



GAS BOOSTER PUMP

Black Gold's Gas Booster Pump is designed for gaseous wells that produce high gas entrained fluids. The pump is designed to mitigate gas locking and gas interference. It has a special vacuum chamber that allows gas to escape from the travelling valve. The gas is then pumped out on every upstroke through a compression chamber.

Standard sizes are:

1-1/4" – 3-3/4"

IP PRODUCTION TOOLS



HYDRAULIC ANCHORS

Black Gold's Hydraulic Anchor is simple to install and simple to extract with strong holding power to maximize pump efficiency. Our engineered large bypass area eliminates gas problems and allows for the use of survey tools. With no surface manipulation needed, the anchor utilizes the weight of the fluid column to set. This compensating anchor can reset itself downwards but will not move upwards when actuated.



POLISHED ROD CENTRALIZER

Designed to centralize the polished rod in pumping tee to prevent uneven wear of the stuffing box rubbers and extends its running life. It also prevents catastrophic blow out of stuffing box rubbers while creating a differential pressure between the flow line and the stuffing box. We had tested an estimated 70% pressure decrease under the stuffing box.



GAS SEPERATOR / GAS ANCHOR

Black Gold's gas separator is installed at the end of the tubing string and is specifically engineered to maximise pump efficiency with any volume of gas. With a pump above the perforation, Black Gold's gas separator becomes a crucial solution. Each separator is designed based on individual well conditions and production parameters to allow maximum production.

Availability:

4.5" casing for greater flow area upon request



CHEMICAL INJECTION MANDREL

Black Gold's chemical injection mandrel allows producers to continuously or batch treat wells at any location in the production tubing string. While other methods of injecting chemicals require pulling of the pump and/or rod string, this mandrel is set when running the tubing in the hole. Its large bypass area prevents sand from building on top and gas slugs from forming below.

PRODUCTION TOOLS

R- DRAIN



Black Gold's R-drain is used to drain fluid from the tubing string. It is installed in line with the tubing having a box end on top and pin end on bottom. Actuation of the drain requires clockwise rotation of the tubing. The brass plug provides superior corrosion resistance for extended run times.

Suitable for tubing sizes 2-3/8", 2-7/8" and 3-1/2"

ROD ANODE



Black Gold Pump & Supply Inc's rod anode can be attached in any location on the rod string to reduce corrosion on rods and tubing. The anode acts as a form of cathodic protection against corrosion to the rod string. A galvanic relationship is formed between the anode and the rod string; drawing corrosion away from the rod string and towards the anode. Because of its large diameter, there is an increase in velocity and pressure of the fluid as it flows over the anode. This allows the dissolved gases in the fluid to "break out", thus allowing the dissolved gases to corrode the anode.

POLISHED ROD COLLET BUSHING



As polished rods may flex due to misalignment, polished rod failures may occur at the bottom thread of the polished rod. Installed between the polished rod and the remainder of the rod string, Black Gold's polished rod collet bushing eliminates the risk of polished rod pin failures. The polished rod pin is threaded into the collet body. The nut is threaded onto the body, wedging the tabs between the nut and the polished rod. This specific design is tailored to have maximum holding strength as more tensile forces are applied to the collet bushing.

IMPACT RESISTANT CAGE



The impact resistant cage was named because of its unparalleled resilience to beating out. Compared to hard line cages, the insert demonstrates elasticity and absorbs impact energy rather than deforming or chipping. This eliminates scoring or stuck plunges as a result of chipped hard lined cages. Design to perform, the insert features no windows, preventing erosion/corrosion to the shell of the cage. The insert is designed with a "full open" geometry, maximizing flow area and preventing scale buildup.

ENGINEERING & MANUFACTURING

ENGINEERING

Black Gold Pump & Supply has a staff of engineers who support all the technical aspects of our products. Our engineers support our customers, sales team, and the development of our new products. We are capable developing custom products for the oil industry, detailed failure analysis, applications support, and API standard products.

Black Gold Engineering Capabilities:

- Client specific designs
- Engineering consulting & collaboration
- Technical sales support
- IP product development
- Surface and subsurface failure analysis
- ASME Y14.5 GD&T
- Luminary group (oil industry's seasoned veterans)

MANUFACTURING

Black Gold Pump & Supply meets the requirements of the standard ISO 9001:2008. With over 30 years of experience, our API and custom non-API manufacturing capabilities are time tested for projects big and small. Our process in machining, welding, and assembly ensure quality products and timely delivery.

Black Gold Pump & Supply's in-house full service team is capable of designing and manufacturing complex products and pumps. Our ubiquitous approach includes engineering, product development, design, manufacturing, and assembly. We are a one stop shop for all your down hole artificial lift needs.

Contact us today and let us help you with your part or project.



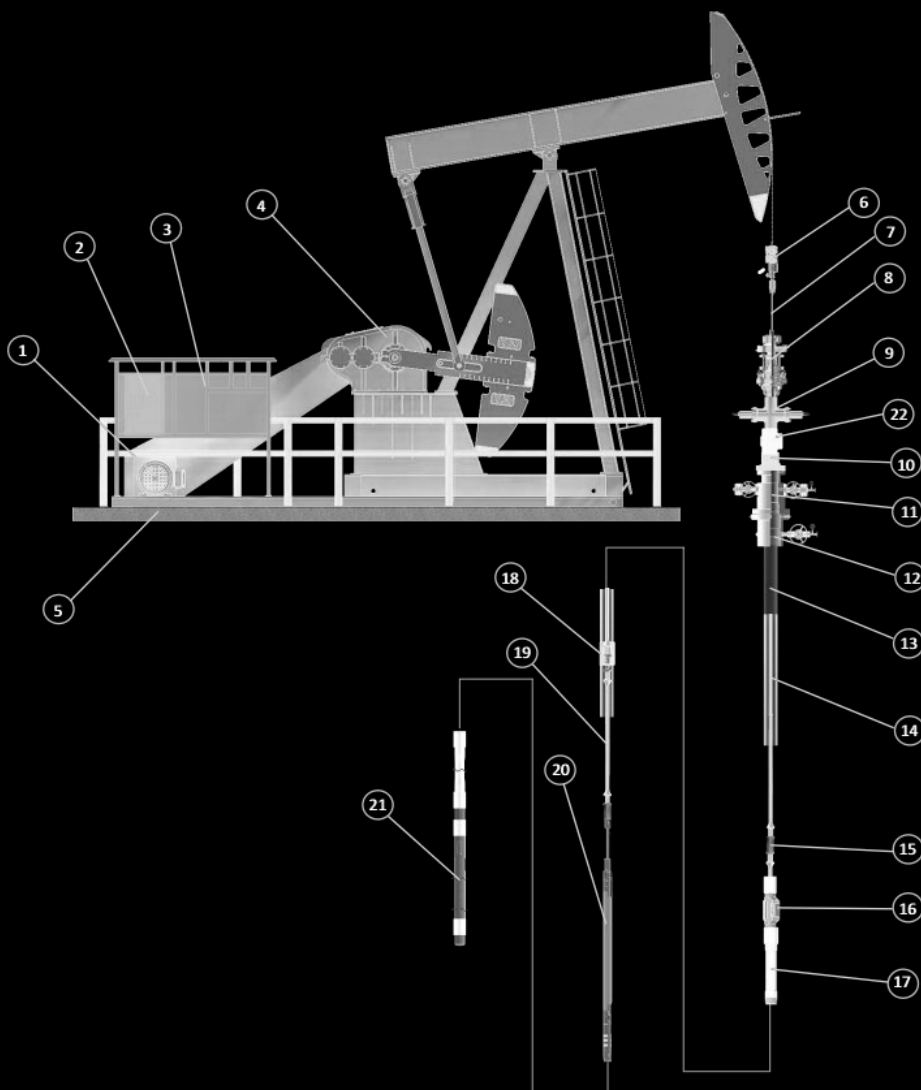
WELL ANALYSIS

WELL DESIGN

All wells are different and unique, and they need to be designed as such. From the bottom hole pump to the surface equipment it all is critical to get the wells system efficiency at its highest so we pump the amount of production needed without causing harm to the system and making the wells uneconomical. We have the ability to design all applications for rod pumps from down hole to surface. There is nothing Black Gold has not designed over the years for customers to help midget their problems

WELL OPTIMIZATION

Our goal is to optimize all down hole and surface conditions and track the success and failures of products. We optimize, re-design, and re-engineer items constantly for our customers to ensure the next product they get is the right one.





LEADERS & INNOVATORS OF ROD PUMPING TECHNOLOGY

FOR MORE PRODUCTS AND INFORMATION

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