



## CASE STUDY

**The Customer:** ENSCO International

**The Challenge:** Rugged offshore drilling operations

**The Conclusion:** Quincy QSI Series rotary screw air compressors



ENSCO International counts on the rugged reliability of Quincy Compressor equipment for the demanding applications and harsh conditions of its global offshore drilling operations.

# Quincy's Rugged Reliability Meets the Challenge of Demanding Offshore Drilling Applications

## The Customer

ENSCO International, a premier global offshore oil and gas drilling contractor, is an S&P 500 company headquartered in Dallas, Texas. ENSCO's drilling services are essential to the exploration, development and production of oil and natural gas. The company provides drilling services under contract to major international, government-owned and independent oil and gas companies, including well-known entities such as Shell, ExxonMobil, BP, ConocoPhillips and Chevron.

ENSCO's drilling operations are strategically concentrated in the most prolific domestic and international oil and gas markets – from the Gulf of Mexico and Venezuela, to the U.K. and Denmark, to Nigeria and India, to Brunei and Qatar, to Malaysia and Indonesia, to Singapore and Vietnam, to Australia and New Zealand.

ENSCO owns and operates one of the world's largest and most capable fleets of drilling rigs including 44 premium jackup rigs, one barge rig and one ultra-deepwater semisubmersible rig – with four additional ultra-deepwater semisubmersible rigs currently

under construction. Jackup rigs stand on the ocean floor with the hull and drilling equipment on connected leg supports and elevated above the water, and are generally capable of drilling in

water depths of 225 to 400 feet. Semisubmersible rigs float on pontoons or columns partially submerged to a predetermined depth and are dynamically positioned in a fixed location over the ocean floor by computer-controlled propellers or "thrusters." Ultra-deepwater semisubmersibles are capable of drilling in water depths of 8,000 feet or more.

## The Challenge

Worldwide operations and the demands of offshore drilling require world-class equipment with a reputation for reliability and performance proven in the toughest applications.

Currently, one-third of the ENSCO fleet operates in the Gulf of Mexico. "The Gulf is a demanding environment and our air compres-

sors have to operate under adverse conditions," explains Don Hataway, engineer of preventive maintenance with ENSCO's North and South America business unit based in Broussard, Louisiana.

"It's very hot down in the Gulf with high temperatures and a lot of moisture. The compressors are down in the hull; they're air cooled and they run extremely hot."

In that type of demanding operating environment, dependable equipment is critical. ENSCO's drilling rigs are in open water, often far from shore, so they can't afford unreliable air compressors. Productivity can quickly come to a halt ... and help is miles away.

That's why ENSCO has standardized the use of dependable, long-lasting Quincy air compressors on all its drilling rigs around the world.

## The Conclusion

ENSCO's drilling rigs will typically use three Quincy air compressors, although some of the larger rigs may have four units. A pair of QSI Series rotary screw compressors power the

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main compressed air systems and supply rig air for all the pneumatic controls and functions throughout the drilling rig – air-powered tools and winches, clutching operations

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Don Hataway  
ENSCO International

on the main draw works which pulls loads in and out of the hole, and aero-hydraulic controls on the top-drive drilling system. The dependable direct-drive QSI features oversized rotors and low

rpms to ensure maximum air production using minimum horsepower for long compressor life and increased efficiency.

The rigs also use a Quincy QSLP low pressure rotary screw compressor to move bulk materials used to make the drilling mud that is pumped down the hole. The compressor also pumps dry cement to the make-up equipment, then cement is pumped down the hole when setting pipe or sealing the hole.

“Quincy Compressor has always been the vendor of choice in this business,” says Hataway. “Overall, the compressors have been very reliable. Plus Quincy and Hertz/Service Pump & Compressor



Don Hataway of ENSCO International depends on compressed air to operate at peak performance in the roughest conditions in the open and unforgiving waters of the Gulf of Mexico.

(the authorized distributor) provide great support, from training schools for our mechanics to periodic analysis to check the condition

of the lubricating fluid. If we have any questions or concerns, they are right on top of it and dealing with it.”

#### PRODUCTS AND SERVICES

Quincy's product line includes the following categories:

- Rotary Screw Compressors
  - QSI 50 hp - 350 hp
  - QGV 50 hp - 200 hp
  - QGB 20 hp - 60 hp
  - QSF 50 hp - 200 hp
  - QGS 10 hp - 15 hp
- Reciprocating Compressors
  - QR25 1 hp - 25 hp
  - QT 3 hp - 15 hp
  - PLT 3 hp - 15 hp
  - QRD Oil-less 2 hp - 30 hp
- Climate Control
- Medical Systems
- Vacuum Pumps
- Air Treatment
- EQ™ System
- Analysis Services

#### MARKETS AND INDUSTRIES

- Agriculture/Farm
- Automotive/Tire
- Climate Control
- Contractor/Builder
- Dry Cleaning
- Energy Exploration
- Food/Beverage
- Low Pressure
- Manufacturing
- Medical/Dental
- Pharmaceutical
- Plastics
- Woodworking

#### UNDENIABLY THE WORLD'S FINEST

Quincy Compressor specializes in compressed air technology, offering top-notch products and services since 1920. Serving the industry nearly nine decades, Quincy is on the cutting edge, engineering reliability and quality into every offering. Award-winning accomplishments have allowed Quincy to build solid relationships with its customers and achieve compressed air systems best practices. Quincy's flagship products include the QSI and QGV rotary screw compressors, the reciprocating QR-25, QT and Climate Control packages along with its innovative Royal Blue Warranty, widely recognized as the industry's strongest warranty program that covers both parts and labor on select rotary screw models. The True Blue Warranty offers industry-leading coverage on select reciprocating models. These programs deliver on the promise of superior performance. To learn more, contact your local distributor who can be found by visiting the sales and service locator at [quincycompressor.com](http://quincycompressor.com).



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