



PROCESS SYSTEMS



## High-Pressure Screw Compressors For Fuel Gas Boosting



# Rock Solid Reliability in a Critical Role

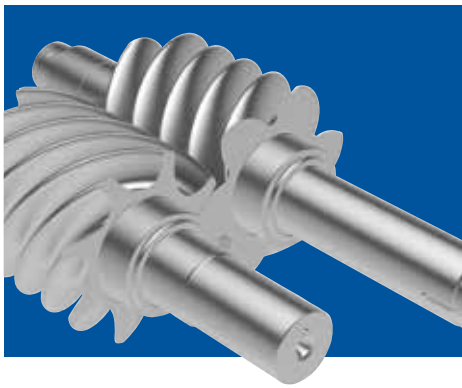
Natural gas is now the leading source of electricity generation in America and a rapidly growing source of power worldwide.

Today's gas turbines – bigger and more efficient than ever before – require a significantly higher feed pressure than their predecessors, one well in excess of the fluctuating pressures in a typical gas pipeline. As a result, they need Fuel Gas Booster (FGB) compressors that can satisfy the steady gas flow rate and high pressure needs of the turbine, while handling the fluctuating gas pressure at the inlet.

These turbines represent significant investments and, as such, are expected to perform at a high level for decades. Further, FGB compressors must do their job with steadfast reliability, because if the compressor fails, the turbine shuts down, too.

The solution?

High-pressure screw compressors from York® Process Systems.



# The Worldwide Leader in Gas Compression

Our equipment has run in some of the most complicated processes in the most demanding industries for over a century.

We bring this unmatched experience to the world's largest range of screw compressors, with capacities of up to 8,212 cfm (13,952 m3/hr) and 1,100 psi (76 bar).

Our vast experience, advanced technology, and smart controls serve as your assurance of a reliable compressor solution that can continually meet your flow and pressure demands.



## Leading-Edge Screw Compressors: Built for the Long Haul

York® Process Systems relies on the foundation of Frick® screw compressors.

The Frick® screw compressor product line is engineered to meet your gas compression requirements.

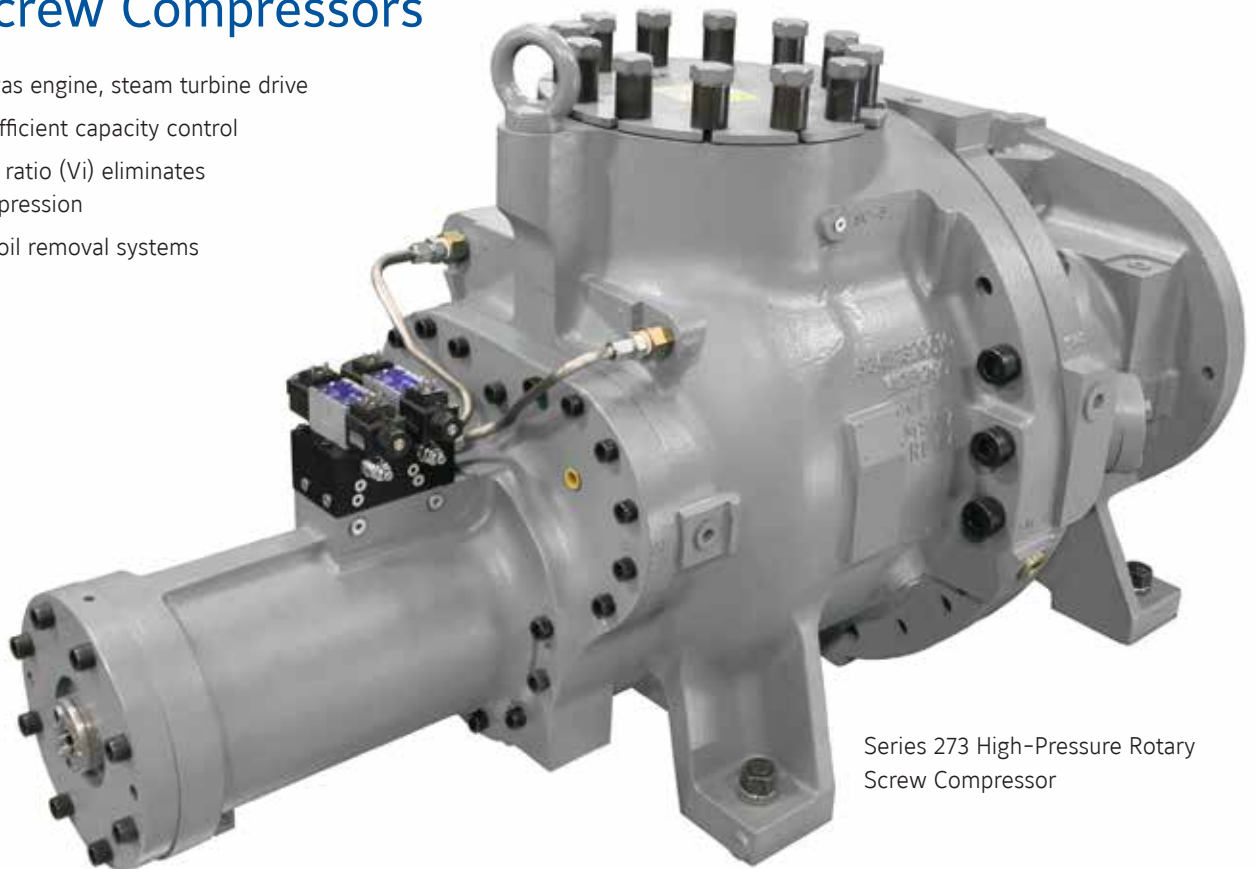
Each compressor is designed and manufactured to assure reliability, availability, accessibility and ease of service. In addition, advanced energy-saving features reduce operating costs significantly, all of which explains why more than 150,000 Frick® screw compressors are in operation around the globe.

**Our rotary screw compressors are manufactured to meet the exacting requirements of the gas compression industry.**

FEATURE	DATA
Flow Range	Up to 8,212 CFM (13,952 m <sup>3</sup> /hr)
Power Range	Up to 6,000 hp (4,474 kW)
Pressure Range	Up to 1,100 psi (76 bar)
Gases	Natural Gas
Certifications & Classifications	ANSI, ASME, BS OHSAS 18001, CE, CSA, ISO 9001 & 14001, PED, UL

## Frick® Screw Compressors

- Electric motor, gas engine, steam turbine drive
- Slide valve for efficient capacity control
- Variable volume ratio (Vi) eliminates over/under compression
- High-efficiency oil removal systems



Series 273 High-Pressure Rotary Screw Compressor

# Everything You're Looking For in Fuel Gas Boosting Compressor Packages

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## **Performance and Long-term Reliability**

You expect your gas turbines to run hard for a long time. It's not unreasonable to expect the same durability and reliability from your FGB compressor. Our screw technology is significantly more reliable than other technologies.

## **Availability**

When you call on our compressor packages, they will be ready with the steady supply of gas at the pressure you need. Our engineering expertise and non-wearing parts combine to deliver longer intervals between scheduled maintenance and greater performance over longer periods of time.

## **Heightened Compressor Efficiency for Enhanced Sustainability**

Our advanced technology brings exceptional energy efficiency to your operation.

## **Experience**

With more than 135 years of industry-leading compression experience and more than 150,000 compressors installed, we have earned a reputation for making screw compressors that are extremely reliable.

## **Low Oil Carryovers**

Years of R&D and rigorous testing have enabled us to optimize our oil separators and deliver the low oil carryover you demand to protect your investment.

## **Meeting the Highest Industry Standards**

Our compressors are designed to meet ASME, ANSI, NEMA, ISO standards and other standards as applicable.

## **Lower Total Cost of Ownership**

Non-wearing parts, longer maintenance intervals and less frequent rebuilds, coupled with the rotary screw compressor's longer operating life, make the Frick® screw compressor the perfect component in your 20+ year, life-cycle planning.





## Our State-of-the-Art Screw Compressor Test Laboratory Allows You to Buy With Total Confidence



Our new, high-pressure, variable speed, Screw Compressor Test Stand is one of the largest, most sophisticated test stands in the screw compressor industry, and is a significant addition to our existing lab.

At 7,000 square feet, the \$6.7 million facility features the latest testing technology to verify large compressor capabilities, capacity and power ratings with unsurpassed accuracy.

With it, we are uniquely capable of precisely load testing and confirming performance of our array of large screw compressors that support refrigeration and gas compression applications in the oil and gas process industries.

The resulting data allows you to purchase equipment with the highest degree of confidence. Exactly the kind of confidence you need when selecting FGB compressors for your gas turbines.

At the heart of the stand is a 5,000 HP variable speed electric motor. The test loop is rated for 1,100 psig, supporting test conditions up to 1,000 psig discharge pressure. An ammonia refrigeration system equipped with a Frick® RWFII 177 screw compressor with electric motor drive is used, along with a cooling tower to remove the heat of compression and achieve desired suction temperatures. The lab operates on nitrogen, with the ability to model a wide range of gases.

Our state-of-the-art test lab stands as unequivocal proof of our commitment to – and confidence in – the industry and its bright future.



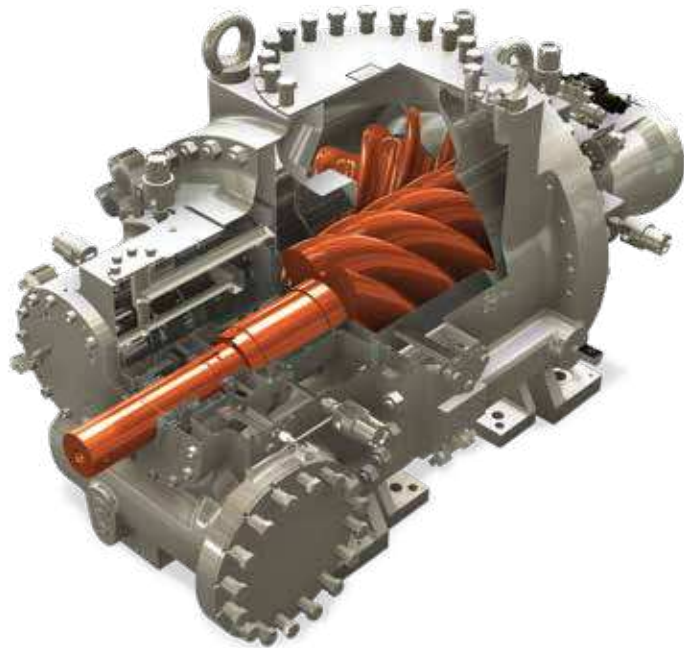
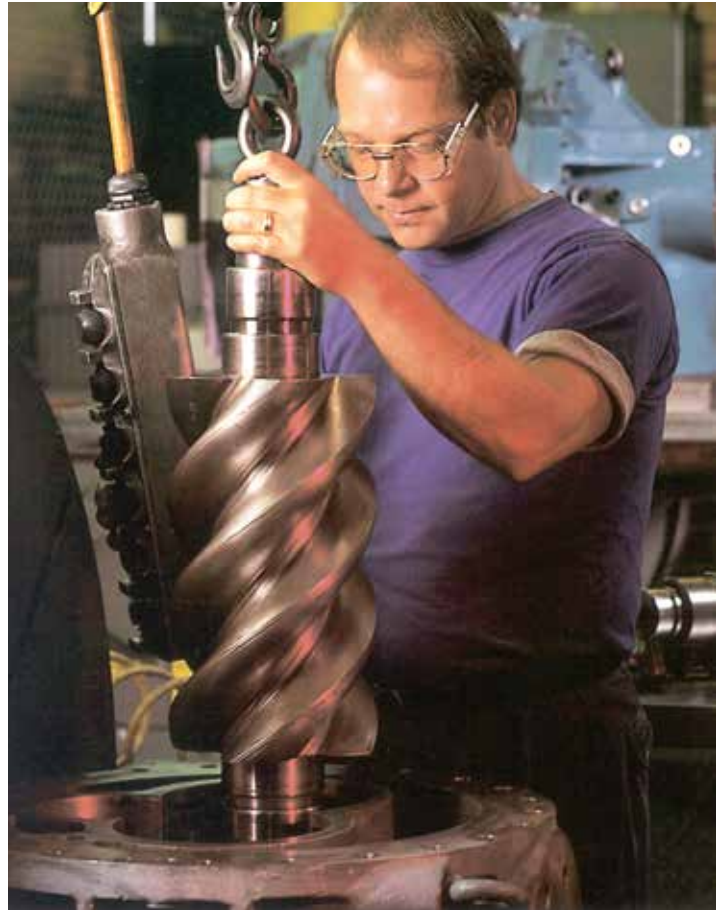
## 135 Years of Compressor Manufacturing Experience

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Our screw compressors are manufactured in advanced facilities in multiple locations globally in order to be close to our worldwide customers. We design and build compressors to deliver the most rugged, efficient, and flexible machines on the market.

Rotors are precision-cut in temperature controlled machining areas; profiles are finish ground for consistent surface finish and close tolerances.

Assembly areas are also temperature controlled and under positive air pressure to assure cleanliness and accuracy. All rotors are balanced to ISO 1940-Grade G2.5 for smooth running, and every compressor is test run to guarantee proper operation.



Designed for durability. Built with precision.



## With More than 300 Locations Around the World to Serve York® Process Systems Equipment



### We're There When You Need Us

As part of Johnson Controls, York® Process Systems has access to the resources of a global technological and industrial leader.

We have more than 300 service locations around the world, so when you partner with us, you benefit from one of the industry's foremost commitments to service.

Regardless of your location, our locally-based teams of factory-trained technicians stand ready to provide preventive maintenance, troubleshooting, repair, and, if need be, retrofit services.

All of our services are performed by highly skilled technicians who specialize in specific types of equipment, enabling them to ensure continued safe, reliable, efficient equipment performance.

If unexpected failure should occur, York® Process Systems will be at your door with expert repair service and support. We know critical equipment breakdowns always seem to happen at the worst time, and that your compressor is one of the most vital assets in your facility.

We make sure that you get the most out of your investment by offering the following time- and money-saving support services:

- Supervision of installation
- Start-up and commissioning
- Staff training
- Service and maintenance (4,000 technicians in 192 countries, trained on all brands of rotary screw and centrifugal compressors)
- Technological upgrades
- Power-saving improvements
- Replacement parts
- Information and advice
- Design studies



# Sales Offices Strategically Located Around the Globe

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## Global Manufacturing Locations



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Rock solid reliability™



PROCESS SYSTEMS

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