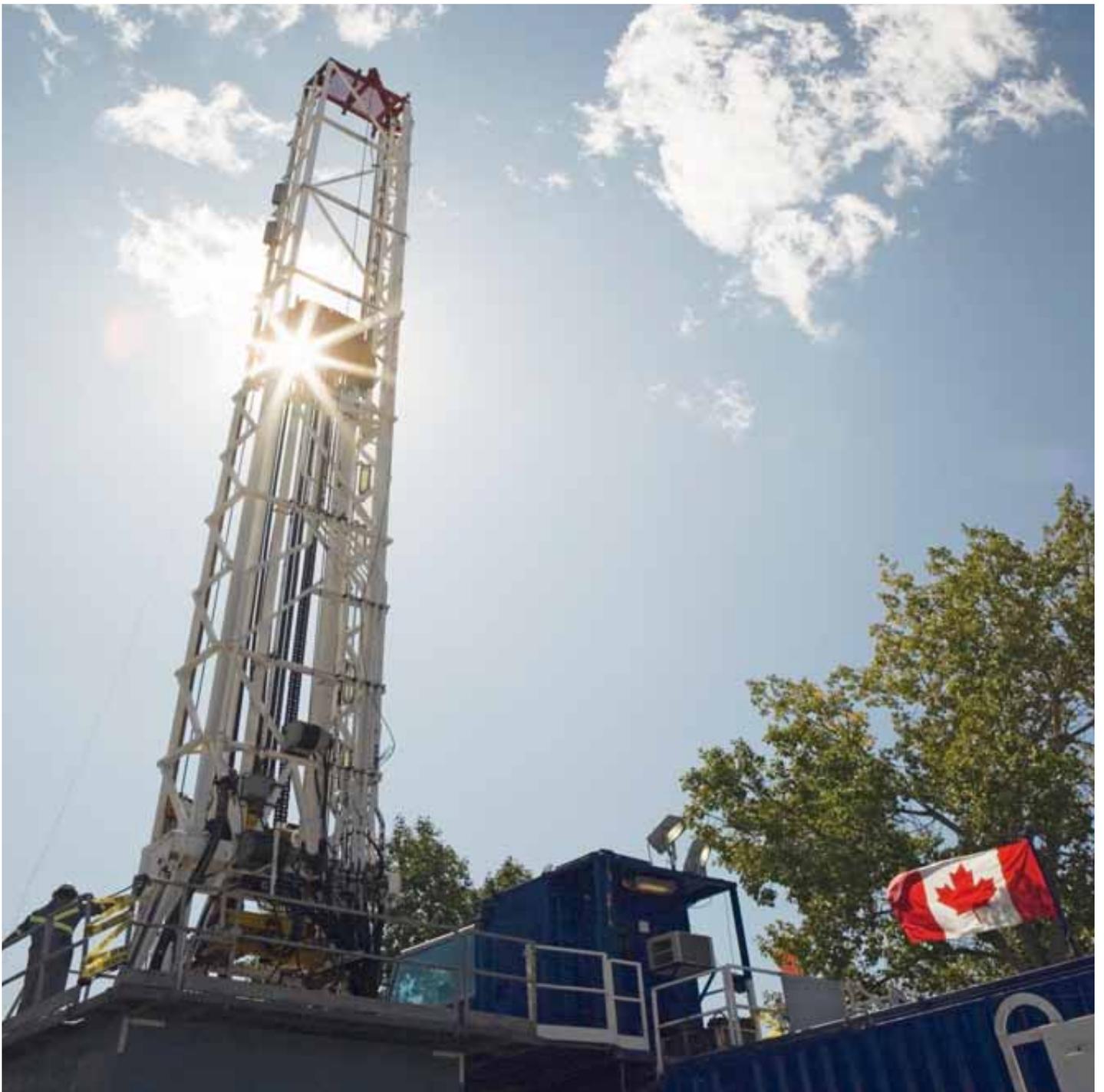


Reliable performance for the oil and gas industry



Optimizing performance - reliable operations day after day regardless of location.

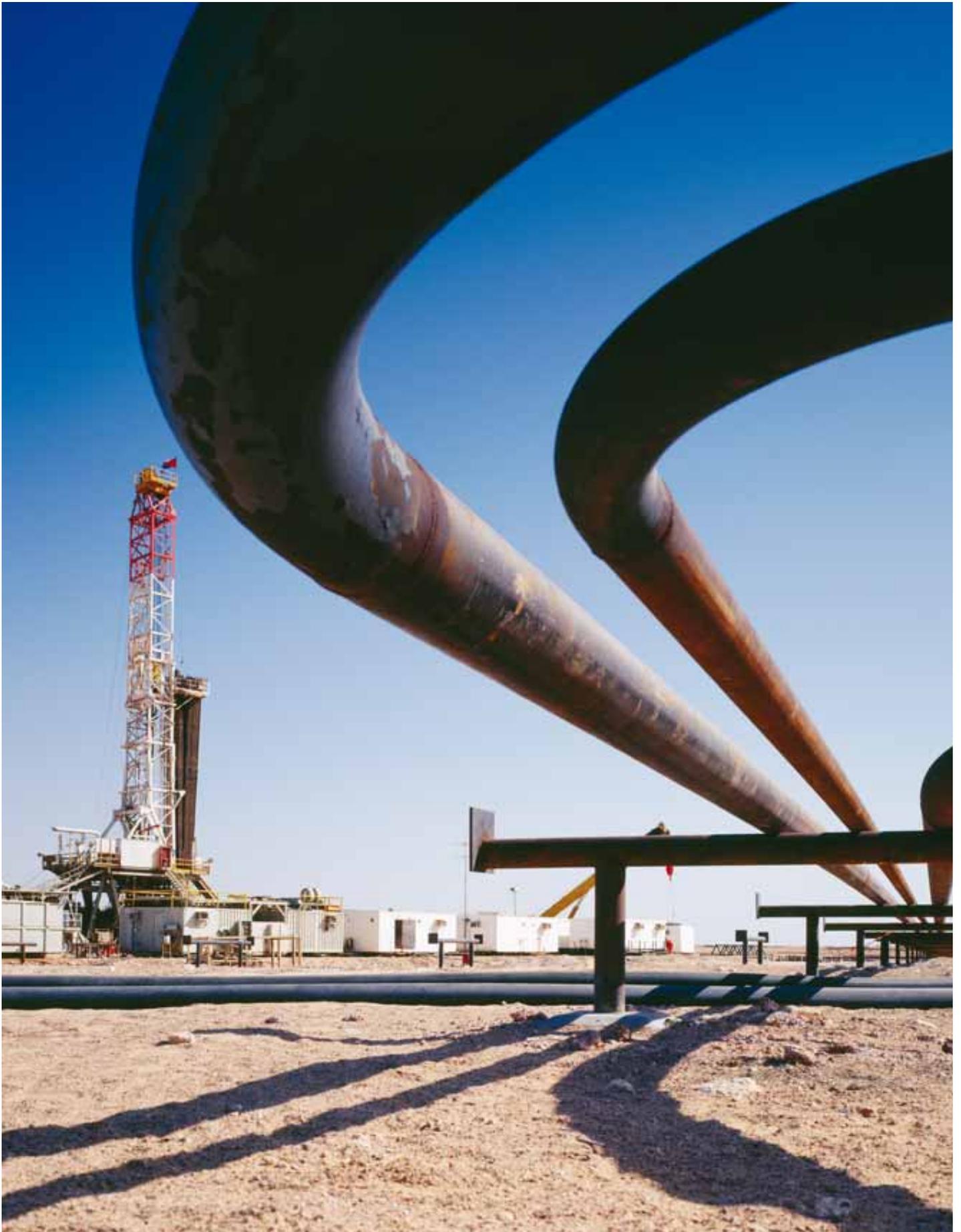
Keeping production going

In harsh environments, when meeting tough demands, you need equipment that you know you can count on – equipment that helps you optimize production and keeps on working reliably, day after day, regardless of location.

Our innovative systems and robust components are within easy reach wherever you operate, along with in-depth service provided at the local level. And supporting it all is our engineering expertise, which builds on our work with oil and gas installations around the globe.

With Bosch Rexroth system solutions and components for the oil & gas industry, you'll be well-prepared to optimize performance and improve productivity. Our line offers you well-proven solutions with the latest technology, engineered to the toughest standards. But more importantly, you'll find flexibility and versatility for the extreme demands of the oil and gas industry. Our equipment combines compact and lightweight design with unbeatable torque, plus the ability to match any speed requirement – slow or fast, forwards or backwards.





Maximizing productivity – top-down efficiency

When it comes to reliable performance in demanding environments, we know all about providing the right mobility, power, control and function, regardless of technology or location. Flexible system solutions for a wide range of applications help you optimize performance and productivity, wherever you are.

Oil & Gas – efficient and smooth operations day after day, regardless of environment

When you need to move swiftly from one project to the next you want to travel light and with the most efficient tools. With powerful and lightweight Rexroth solutions you can rely on solid performance for all the demanding everyday tasks in the oil and gas industry. Everything is at the ready, providing the power and control you need, when you need it. Our powerful, lightweight system solutions and components help you do your job efficiently, quickly and reliably, day after day, hour after hour. Our wide portfolio of reliable products and system solutions enables you to increase longevity and improve rig utilization for all important drill rig functions. We know how to provide the power to get the job done efficiently, while bringing a high level of control to optimize production and to help ensure safe solutions for machinery and personnel.

Mud pumps – features

- ▶ high torque and low speed, as well as infinitely variable speed, ensure optimal mud pump flow
- ▶ direct drive system enabling simplicity in design and efficiency in performance
- ▶ space and weight-saving solutions allow layout optimization and efficient operations

Top head drives/power swivel drives – features

- ▶ reliability and flexibility through heavy-duty design and proven technology
- ▶ rugged equipment withstands the toughest environments, enabling optimization of production
- ▶ space and weight-saving solutions allow smooth, efficient transition from one project to the next

Draw works – features

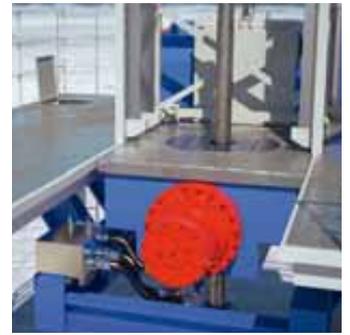
- ▶ high power-to-weight ratio and power capacity enable efficient tripping of the pipe or rod
- ▶ excellent low speed performance, even at around zero rpm, making it easier to feather control the load and run smoothly in auto drilling mode
- ▶ space and weight-saving solutions

Rotary table drives – features

- ▶ proven technology
- ▶ reliable products with rugged design to withstand the harshest environments

Coiled tubing – features

- ▶ direct drives provide simplicity and fast operations
- ▶ excellent control, even at the lowest speeds and highest torques
- ▶ space and weight-saving solutions



Increasing production rates

Our electro-hydraulic drive system for crude oil pumps provide you with an opportunity to improve efficiency and save energy

Oil & Gas Production - energy efficient operations in a compact solution

Crude oil and natural gas are the most important energy sources in our modern world. Many oil companies complement their traditional mechanical technology with modern electro-hydraulic systems to increase availability as well as production rate. There is a demand for technical solutions that offer reliable, clean, economic and energy-efficient oil production. The electro hydraulic downhole pump drive R7 from Bosch Rexroth meets all these requirements. The R7 design is based on a hydraulic cylinder mounted directly on the well head tubing and a hydraulic power unit. Bosch Rexroth also provides perfectly matched electro-hydraulic drive systems for the complete range of progressing cavity pumps (PCP).

R7 electrohydraulic downhole pump drive – features

- ▶ simple installation thanks to compact design
- ▶ overload protection
- ▶ improved efficiency due to potential for energy recovery and energy storage
- ▶ remote management of parameters via control center
- ▶ increased crude oil production

PCP pump head drives – features

- ▶ reliable motors, with field-proven dependability
- ▶ compact mounting, with SAE standard mounting flanges and shafts
- ▶ high efficiency, minimizes heat
- ▶ long field service life
- ▶ quiet solution – AA2FM motor noise levels consistently rank amongst the lowest



Easy adjustments

Whether working in biting cold or intense heat, Bosch Rexroth control valves can handle the pressure

Oil & Gas Transportation - valve adjustment with a mouse click

In the past, in settings such as the biting cold of the Siberian permafrost, workers had to laboriously control the discharge pressure of several hundred wells by hand. Today, with electrohydraulic adjustments from Bosch Rexroth, gas field owners can easily control and manage the pressure from a control center. Regardless of weather and location, all relevant parameters are always at your fingertips and the master control fittings can be adjusted as needed to help increase flow rate and reliability. The compact hydraulic modules from Bosch Rexroth fit perfectly into the conveyor designs and communicate directly with the master controller.

Gas transportation valve - features

- ▶ easy handling of adjustments over a large temperature range
- ▶ onshore and offshore X-mas tree and shut off valve control systems
- ▶ dedicated liquids (for arctic application)
- ▶ explosion protection for the system
- ▶ hydraulic system pressure from 210 to 1200 bar



Rugged and reliable system solutions and components.

When working with explosive materials in challenging environments, you must be able to rely on your equipment. Bosch Rexroth offers you flexibility, versatility and extensive engineering expertise, providing rugged and reliable solutions from a single supplier. We have operations around the globe and local support available on all continents.

Our systems and solutions have provided oil and gas operators around the globe with peace of mind for many years. Our commitment to enhance performance in the oil and gas industry does not stop at big solutions and entire processes. We have a vast product portfolio of high-quality products to give you the extra functionality needed for various rig functions. In our portfolio you can also find products and systems that are rated for use in hazardous areas and classified as explosion-proof. Please contact your local Bosch Rexroth representative for further information; no questions are too big or too small.

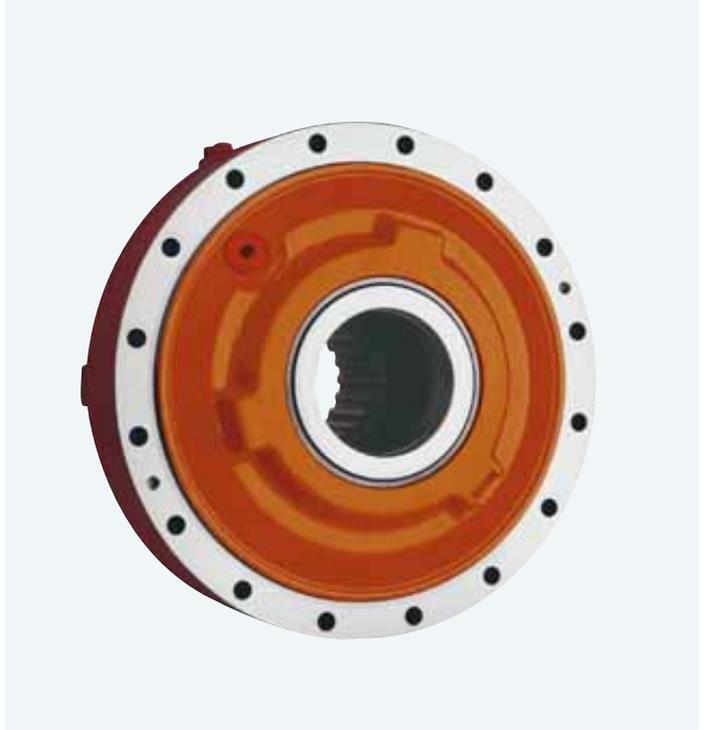
- ▶ motors
- ▶ power units and manifolds
- ▶ pumps
- ▶ cylinders
- ▶ valves
- ▶ control platforms
- ▶ field service and start up support
- ▶ maintenance programs



More information
about products
and solutions



More information
about explosion
proof systems



Global partner with local service – reliability all the way

Our mission is to make sure that our clients get the most out of their processes and work with great solutions and services – to facilitate and enhance their operations by being an active, long-term partner providing experience, know-how and excellent technological solutions.

Investing in peace of mind

Wherever you are, we are right there with you. With our global network of knowledge and service, we offer local support that goes well beyond the ordinary. Our experienced engineers are not only experts in our own solutions, but also specialists in your applications.

With our own local service personnel who understand our products and your situation, we can take care of the system solutions so that you can concentrate on what's most important – your core business.

You can rely on us for fast, professional assistance anywhere in the world. With 160 service centers in over 80 different countries, we are always close at hand.



More information
Bosch Rexroth
Service

Advantages

- ✓ Maximized productivity
- ✓ Rugged and reliable system solutions and components
- ✓ Global partner with local service and support

Tough application, ingenious solution } Exactly



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