

Reliable performance for tunnel boring machines





A global partner to help you break through

No matter which climate you work in or which geological conditions you deal with, performance and reliability are first on your mind. You need the right combination of power, control and function for your tunnel boring machine – whatever its technology. With flexible system solutions from Bosch Rexroth, you have all the tools to optimize productivity and results.

40 years and countless tunnels

Boring is much more than extending a tunnel from A to B. With challenges both above and below ground, finishing on time takes force and precision in equal measure. It takes not just raw power, but the right amount of power at the right point in time. For four decades, Rexroth system solutions have offered the ideal combination of power and control.

Rock-solid experience

Over the years our safe, reliable and efficient systems have improved all kinds of tunnel boring machines. In total, our drive and control solutions have served more than 1000 tunnel boring machines worldwide. Combined with our expertise in application engineering, our high-quality system solutions are a unique opportunity to enhance your tunneling performance and productivity. Backing them up is a global network of resources, including production plants, sales offices and service facilities.

TBM benefits from Bosch Rexroth:

- ▶ Maximized uptime and performance through proven and reliable drive and control systems, built with high-quality components
- ▶ Space savings and simplified construction through compact and powerful solutions
- ▶ Efficiency and operating safety through a high level of controllability



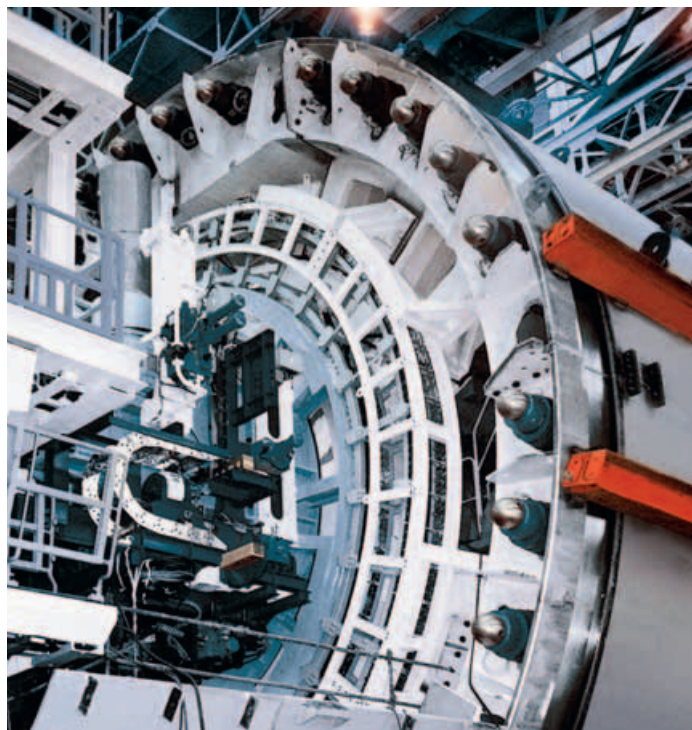


Technology to put you at the cutting edge

Cutting. Thrusting. Lining. Transporting. On a tunnel boring machine, these functions and more must work smoothly and reliably for safe and efficient operations. Bosch Rexroth is a one-stop shop for everything you need to make that happen. System solutions from Bosch Rexroth comprise cutting-edge technologies, matched perfectly to each other and to your application. You get reliable tools for boosting production and performance, built on our long experience with tunneling and tunnel boring machines.

Cutter head drives – features

- ▶ Robust and reliable design that withstands vibrations and performs well in even the toughest conditions, allowing you to maximize uptime
- ▶ Compact construction that enables space- and weight-saving solutions
- ▶ High breakaway torque and power density that give you power when you need it



Screw conveyor drives – features

- ▶ Robust design that ensures reliable operation and maximized uptime
- ▶ Compact construction that enables space- and weight-saving solutions
- ▶ A wide range of powerful motors with everything from low speed to high speed solutions.

Erectors drives – features

- ▶ Compact construction that enables space- and weight-saving solutions
- ▶ Robust design that maximizes uptime and operating reliability
- ▶ All functions in a complete system solution from one reliable supplier: travel cylinder, lift/grab cylinder, pumps, motors for rotation, etc.

Thrust/propulsion drives – features

- ▶ Control systems and a unique range of pumps that

enable high power with precise movement, ensuring powerful and controlled propulsion

- ▶ Robust design that ensures reliable operation and maximized uptime
- ▶ All functions in a complete system solution from one reliable supplier

Going the distance – right by your side

Our mission is to supply excellent solutions that ensure you get the most out of your processes. As an active long-term partner, we support and improve your operations by providing experience, know-how and excellent service.

With our global network of knowledge and service, we offer on-the-door-step support that goes well beyond the ordinary. Our engineers are not only experts in our own solutions, but also specialists in your applications. As a system partner, we take on the responsibility for retrofit and modernization work, for upgrading previously-installed machines to the latest state-of-the-art in safety technology, and for increasing the energy efficiency of the entire production system.

Our highly experienced local service staff can take care of your system solutions so that you can concentrate on the most important aspect of all – your core business.

No matter where in the world you operate, you can rely on Bosch Rexroth for fast, professional assistance. With 160 service centers in over 80 different countries, we are always close at hand. Our service is your key to higher productivity.



Range of Rexroth Services for Machinery Applications and Engineering



Spare Parts



Preventive and Predictive Services



Repairs



Retrofit and Modernization



Field Service

Detailed information

www.boschrexroth.com/service





Tough application,
ingenious solution } Exactly

Advantages

- ✓ Efficiency and operating safety through a high level of controllability
- ✓ Space savings and simplified construction through compact and powerful solutions
- ✓ Maximized uptime and performance through proven and reliable drive and control systems, built with high-quality components

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