rexroth
A Bosch Company

Power to excel in mining and materials handling

HÄGGLUNDS

www.boschrexroth.com

What drives your performance?

Mining, mineral processing and materials handling are different businesses with a shared challenge. All place extreme demands on their driven equipment – and none can accept a single unplanned stop. Whether you excavate, crush, refine or simply keep things moving, you need equipment and a supplier you can trust.

TOUGHING IT OUT

In a business that's constantly changing, you need highly adaptive and productive equipment. With industry and infrastructure growing worldwide, so is the demand for metals, minerals and materials. And the strong market competition means you can't afford any standstill.

Staying ahead takes machines that are more than just heavy-duty. It takes the right combination of power, control and protection for specific tasks and requirements. The tougher your applications, the more adaptable your equipment and its drive and control systems have to be.

In short, you need system solutions that:

- Maximize equipment uptime in order to optimize productivity
- Reduce limitations but still protect machines from damage
- Withstand harsh environments and resist wear
- Add ruggedness and function without adding bulk and weight
- Give you global access to top-notch support

You can expect nothing less from Bosch Rexroth.

A partner who goes the distance

Success comes from high productivity and well-utilized machinery and processes. To achieve it, your drive system and its supplier must provide the same qualities you look for in your equipment – performance, availability, longevity. Bosch Rexroth offers all these and more.

A POWERFUL OFFER

Bosch Rexroth has a long history of making a difference in mining, mineral processing and materials handling. Using our deep application knowledge, together with our extensive drive and control portfolio, we offer the right solutions to meet your challenges. We bring you what's best for your machine and process, as well as what's best for your business.

Our portfolio of high-quality products is constantly developing, which means new opportunities to boost productivity and stay competitive. Behind it lie our unique application and engineering knowledge, along with a comprehensive offering of service and support.

Wherever your business is and wherever it takes you, our expertise is at your side.

By choosing Bosch Rexroth solutions, you choose:

- The highest reliability, longest service life and best uptime
- High energy efficiency and superior control, with full command over speed and torque
- Simple and easy installation through compact and lightweight design
- High flexibility, through modular design and a wide working range
- Worldwide support, with fast service provided by skilled and experienced engineers

Groundbreaking durability

You need heavy-duty equipment to break the ground itself and bring out valuable materials. Rexroth gives you full power to handle any condition you meet, while giving you solid protection for your machinery.

From high starting torque to the brutal stress of shock loads and severe environments, our system solutions withstand it all. Yet tough as they are, they sacrifice nothing when it comes to flexibility and highly responsive control.

Benefits for bucket wheel drives

- Low-weight construction that reduces the need for counterweight and limits the stresses on your boom and slewing gear, which means a leaner design and less machine weight in total
- Built-in overload protection that eliminates trip-outs and minimizes production losses in the event of a stall, for example caused by pile avalanche
- Full torque throughout the speed range, combined with infinitiely variable speed, which lets you adjust to all types of materials and conditions – at any time

Benefits for slewing and luffing drives

- Compact arrangements that save space and weight
- Reliable shock load protection that maximizes equipment uptime
- Excellent controllability for superior performance at any speed

Benefits for long travel drives

- Perfectly balanced load sharing that ensures reliable operation
- Excellent controllability for superior low-speed performance
- Robust design intended for heavy-duty conditions

Reliability at every turn

Crushing and grinding rock to release valuable material creates tough and sometimes unpredictable challenges. Variations in mineral quality can put unexpected strain on your equipment and your process. System solutions from Rexroth are your insurance against overloads, letting you manage high torque – from standstill to maximum speed – for an unlimited period of time.

Our tough and well-proven solutions minimize downtime and optimize the utilization of your machinery. They provide the highest flexibility, which means you can handle both variable load and future demands. With accurate and instant control of speed, flow and capacity, you can fully maximize your process versatility.

Benefits for kilns and drums

- Perfect load sharing that minimizes wear and ensures reliable operation
- Full torque control and the ability to provide starting torque indefinitely
- Excellent controllability throughout the whole speed range, enabling process optimization and trouble-free inching with the main drive
- Flexible system solutions for easy installation and high redundancy

Benefits for ball mills

- Well-proven design with a long rated service life that minimizes maintenance needs
- Infinitiely variable speed that enables process optimization
- Excellent controllability throughout the whole speed range that enables trouble-free inching with the main drive

Benefits for crushers

- Full torque available from standstill and the ability to provide high torque indefinitely
- Built-in overload protection that eliminates trip-outs and minimizes production losses
- Superior controllability for easy starts, stops and even reversals if required
- Excellent shock load protection that extends the life of machinery and wear parts

▲ **Kilns and drums**
◀ **Ball mills**
▼ **Crushers**

Unstoppable productivity

No matter what material you handle, getting it from one place to the other is seldom as easy as it sounds. Loading, unloading and transporting pose unique challenges for your equipment, and there's no room for downtime or mistakes.

Drive system solutions from Rexroth can easily be tailored to your task and your load, running quickly or slowly, backwards or forwards. Our solutions are rugged and reliable, taking stops, shock loads and rapid reversals in stride. That means you can get your materials exactly where you need them – exactly when you need them.

Benefits for conveyors

- Excellent torque control from standstill, which protects the machinery and belt from overloads
- Soft starts and stops that keep belt stress to a minimum and increase the service life of belts and chains
- Low-speed running, for example to allow easy belt or chain inspection and replacement
- High starting torque that can be maintained for an unlimited time

Benefits for ship unloaders

- Outstanding, 100% control of acceleration, deceleration and positioning
- Ability to run forward and reverse in both driving and braking mode without limitations
- Compact and low-weight construction that minimizes the need for space, allowing a lean design with a minimum of counterweight

Benefits for car handling

- Excellent control of acceleration, deceleration and positioning, which enables optimization of the emptying cycle
- Good service life and high reliability for optimized availability
- Compact and space-saving construction that allows a smart machine structure and lean design

Benefits for feeders

- Full torque that is available from start and can be maintained for an unlimited time
- Built-in overload protection that guarantees uninterrupted production
- No limitation to the number of consecutive starts and stops
- Fully variable speed that enables process optimization

▲ **Conveyors**
▲ **Ship unloaders**
◀ **Car handling system**
▼ **Apron feeder**

Everything you need

In challenging applications, you need to be able to rely completely on your equipment. With Bosch Rexroth you get flexibility, versatility and extensive engineering expertise. In other words: rugged and reliable solutions from one single supplier.

INVESTING IN PEACE OF MIND

There are many reasons to seek out smart systems and solutions, and also for getting them from a single source. Our commitment to supporting and optimizing your performance doesn't stop at complete solutions and entire processes.

No matter the application or technology, Bosch Rexroth offers a quick response and thorough answers. Big or small, we are a one-stop-shop for all your drive and control needs. With our expertise and complete portfolio of high-quality products, we can provide solutions for any functionality you might need to boost your production.

We can supply all that is needed for an efficient and highly beneficial solution – everything from the power source, e.g. the electric grid or diesel motor, to the machine shaft for rotation or the machine point to be moved. Our solutions give you full access to torque, force and speed, with sturdy equipment and excellent controls.

With our extensive experience and thorough application knowledge, we offer an optimal solution with the highest possible value for you.

...everywhere you need it

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

Nothing should stand in the way of your productivity – least of all the materials you move. With our compact Hägglunds direct drive systems, you can adapt easily to the job at hand, taking advantage of full torque at an infinite range of speeds. And should an overload try to stop you, the drives' low moment of inertia and quick response will keep your machines protected. We'll support you too, with an agile global network and smart connectivity to bring you peace of mind.
Hägglunds – Driven to the Core.

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