

A photograph of industrial machinery in a factory setting. The main focus is a large, red, circular hydraulic component mounted on a blue metal frame. Several thick, black hydraulic hoses are connected to the component and loop around it. The background shows a complex industrial environment with various pipes, metal structures, and overhead lighting. The overall scene is brightly lit, highlighting the metallic surfaces and the vibrant colors of the machinery.

**Formulas for success
in the chemicals industry**

Drives to power productivity

When it comes to chemicals, the success of your process often depends on the strength of your method. In reactors, mixers, agitators and more, our Hägglunds hydraulic direct drive systems have given chemical producers an edge for over 40 years. With their unique blend of characteristics, they can improve your end products as well as your processes.

In fact, Hägglunds solutions now take you further than ever before. Through the optional connectivity of Hägglunds Inside Intelligence, you can add condition-based monitoring, analytics and direct access to service expertise that further boost your productivity.





Hägglunds direct drive systems for hazardous areas



Where gas, steam, solvent mist or dust pose an explosion hazard, Hägglunds direct drive systems provide vital protection – not only of equipment, but also of life and limb. Yet these rugged drives from Bosch Rexroth do more than comply with legislated standards. Their ultra-reliable component performance ensures productivity throughout the machine life cycle.

HÄGGLUNDS DIRECT DRIVE SYSTEMS FROM BOSCH REXROTH OFFER:

Solutions for safe productivity

- ▶ Vital protection – for equipment and human.
- ▶ Ultra-reliable component performance ensures productivity throughout the machine life cycle.
- ▶ Hägglunds direct drive systems comprise a wide range of components and solutions that meet national and international directives for explosion protection.

Explosion protection for your industry

- ▶ Offer tailor-made solutions for your specific applications.
- ▶ Provide proven performance and reliable explosion protection in a much wider range of applications all over the world.
- ▶ Focus on explosive atmospheres involving zone 1 and zone 2 gas/air mixtures.

Drive benefits for the chemical industry

Unmatched power density

Häggglunds drives are space-saving and lightweight solutions with torque and speed capabilities far beyond the expected. With no foundations or gearbox, they supply exceptional power straight to the driven shaft.

Stepless control of speed and torque

With gearless Häggglunds solutions, you can easily optimize the output and quality of continuous processes. Soft-started without any ramp times, they can be run at any speed within their range and switch effortlessly between forward and reverse. Torque – including torque well above nominal – can be supplied at reduced speed and without time restriction, so that you can make optimal use of the installed electric power.

Protection for your equipment

Häggglunds drives are insensitive to dirt, dust and moisture, but they also protect your equipment as a whole. Hydraulic pressure limiting creates an infinitely adjustable safeguard against torque stresses, while an extremely low moment of inertia offers protection at dynamic loads. You can take blockages and other overload situations in stride.

Ease in keeping things moving

With Häggglunds solutions, you can keep standstills to a minimum. Multiple pumps, for example, let you implement redundancy within the drive system. You can also start quickly after an emergency stop or power failure, because the electric motor has virtually no load and maximum torque is available from zero speed.



Easy integration with process control

Combining a Hägglunds system with your existing control systems is simple, both through different fieldbus cards and through optional interfacing with the drive's control and monitoring unit. Process-dependent speed control and even torque measuring are convenient and cost-effective to implement.

Readiness for explosive environments

Hägglunds hydraulic motors are EX-proof from the start, complying with ATEX Equipment Category II G/D and Temperature Class T4. Drive units can be placed outside

the EX-classified area or supplied in an EX-proof configuration for Equipment Category II 2G/3G and Temperature Class T3 or T4.

Improved working conditions

Besides being prepared for a tough production environment, Hägglunds drives can make it easier on your workers. Their gearless transmission of power means reduced noise levels in the production area.



A global partner, always nearby

When you want to get things moving, Rexroth is your one-stop shop for system solutions and expertise – anytime and anywhere. Our extensive portfolio of products, systems and services can help you improve performance and optimize production in every step of your chemical production.

Whether you need complete drive solutions, upgrades of existing equipment or connectivity to improve your drive utilization, you can count on Rexroth assistance. Our global organization can provide engineering, installation, service,

knowledge and more, no matter where you are in the world. For your chemical business, that means quick and well-coordinated global support – from the initial quotation to long-term optimization and peace of mind.



Service that connects you with expertise

More than 40 years of Rexroth experience in the chemical industry give you access to a depth of drive application knowledge. By listening closely and applying it to your challenges, we help you get the most from each of your processes. In addition, we provide solutions that minimize risk and maximize peace of mind throughout your drive system's life cycle.

Today those solutions include not Hägglunds original spare parts, smart upgrades and expert field service, but also cutting-edge connectivity. Our Hägglunds Inside Intelligence

portfolio offers new ways to utilize our expertise, combining smart technology in your drive system with mobile devices and interactive solutions. Whether using Hägglunds CMp for condition monitoring or Hägglunds InSight Live to work with our service experts through augmented reality, you experience new levels of confidence and optimization.

For total peace of mind, you can combine the right mix of support and services – from parts to connectivity – in a Hägglunds performance agreement designed for your specific needs.

RANGE OF REXROTH SERVICES FOR MACHINERY APPLICATIONS AND ENGINEERING

	<p>Spare Parts</p>		<p>Preventive and Predictive Services</p>
	<p>Repairs</p>		<p>Retrofit and Modernization</p>
	<p>Field Service</p>		<p>Hägglunds Inside Intelligence</p>

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