

**MARINE &
OFFSHORE**

Reliability at full steam



HÄGGLUNDS 



Smooth sailing in tough applications

When you work on the open water, you have to rely on what's on board. But that doesn't mean you're alone. For more than half a century, Bosch Rexroth has been at marine customers' side. Compact, efficient and utterly reliable, our Hägglund drive solutions take performance to the extreme. Combined with our singular focus and application knowledge, that keeps your equipment and business on a steady course.

Marine customers were the first to experience the ease and reliability of our Hägglund hydraulic direct drive systems. In fact, marine cranes and winches were what we had in mind when we developed them. Since the introduction of our Hägglund Viking motor, which is now joined by the Hägglund CA, CB, CBp and CBm motors, Hägglund solutions have been installed on everything from fishing trawlers to cruise ships, dredgers to research vessels.

AN OCEAN OF DIFFERENCE

Durable Hägglund drives bring you advantages you won't find anywhere else. They provide unbeatable torque, delivered with exceptional efficiency and built-in overload protection – but without a gearbox. Compact and easy to maintain, they let you handle any challenge you meet, on the water or under it. ●





Courtesy by Royal IHC

Any vessel, any challenge

GET BENEATH THE SURFACE

Hägglund's drives don't just withstand salt, wind and waves. The enclosed motors can dive down deep – well below the 40 meters needed for dredging.

SAVE SPACE ON BOARD

Hägglund's drives need no gearboxes, which means less footprint, less noise and no hassle with lubricating oil. On winches, the brakes and valves mount right on the motor.

GO FULL FORCE

Hägglund's drives offer an unbeatable power-to-weight ratio. Since their full torque is available from zero speed, you gain an immediate advantage.

RESIST SHOCKS AND OVERLOAD

Hägglund's drives have a low moment of inertia and built-in overload protection. If your equipment jams or strikes something unexpectedly, the drive system takes it in stride.

RESPOND INSTANTLY

With their high efficiency and low moment of inertia, Hägglund's drives let you take full advantage of the control system. That means rapid actions and near-immediate stops.

START AND STOP WITHOUT WORRY

There's no risk of overheating with Hägglund's drive systems. So you never need to think about the number or frequency of stops and starts.

CONTROL YOUR TENSION

The up to 98 percent starting torque of Hägglund's drives is maintainable throughout their speed range. Simply put, your winches get the best tension control available.

FREE YOURSELF FROM LIMITATIONS

Free-wheeling capacity makes Hägglund's motors perfect for winches, but also makes it possible to mount them in tandem (or back to back) or to install several of them through a ring gear. That creates an even wider speed and power range. ●

Complete marine solutions



Hågglunds solutions offer incredible versatility, which enables a perfect drive system match for even the most complex needs. You can be sure of the right solution for your vessel by drawing on our decades of application expertise.

DREDGING

On dredgers, Hågglunds solutions handle multiple duties. With motors submersible to well below 40 meters, they withstand shock loads and vibrations, making them an ideal fit for your cutter head drives. But they also offer a space-saving solution for driving your winches, complete with a DNV ATEX brake. Above or below the waterline, full torque from zero speed gives you power right from the start.

TOWING WINCHES

With their incredible power-to-weight ratio, Hågglunds solutions save space on board while boosting your towing muscle. From zero to full speed, you get access to every bit of torque they deliver. What you don't get, however, is the hassle of gearboxes and the ongoing need to purchase, cool and maintain lubricating oil.

THRUSTERS AND PODS

As drives for your thrusters or slewing drives for your thrusters and pods, Hågglunds solutions save space in

installation – and safeguard your mobility in operation. Able to start and stop repeatedly with no risk of overheating, they also absorb the sudden peak load if you strike ice or debris. On thrusters, in particular, you'll find no substitute for the Hågglunds CBp motor, which combines all this with extreme power density.

RORO RAMPS

Your RoRo ramps need precise tension control, especially if you have to balance them against the quay. Hågglunds solutions give you a starting torque of up to 98 percent, which they maintain throughout their speed range. Rugged and reliable, they also place a safety brake on the drum without intermediate gearing, which means you can keep the load supported – even if the drive line should fail.

PIPE AND CABLE LAYING

High-performance tension control isn't only for winches. You need it when laying cable or pipe in a tough marine environment. With starting torque of up to 98 percent that can be maintained throughout their

speed range, Hågglunds solutions on your tensioners keep things reliably taut. And in the unlikely event of a drive line failure, a safety brake without intermediate gearing minimizes your risk of dropping the load.

ANCHOR HANDLING WINCHES

Offering you full torque from zero to full speed, compact Hågglunds solutions have a high power density that makes simple work of hauling anchor. Though no gearbox is needed with a Hågglunds drive, you can choose to install several Hågglunds motors through a ring gear. That gives you exceptional torque with a number of speed steps – and redundancy as well.

OFFSHORE WINCHES

When you work offshore, the remoteness and harsh conditions make reliability more important than ever. Built for the most severe conditions above or below the surface, Hågglunds solutions combine robust engineering with space-saving simplicity. But they also give you performance you can count on, including the best tension control available for winches.

FISHING

With their low moment of inertia and exceptional control, Hågglunds solutions let you trawl more efficiently – eliminating snags and lost trawls. The motor, brakes and valves mount right on the drum, which gives you not only more space and less noise on board, but also free-wheeling ability for shooting out the net. Select the maximum speed range when starting the winch to pay in, then switch over to low speed for maximum line pull when lifting your catch.

CRANE WINCHES

Keeping business going at sea means keeping cargo lifts and other crane operations in motion. Hågglunds solutions help your cranes stay in service, providing immediate overload protection if a hook or load jams. With their high starting efficiency and low moment of inertia, the drives are quick to respond. And the same is true for their class-approved brakes, which keep your load from dropping in a drive line failure. ●



Made for marine use

We provide not just Hägglunds hydraulic motors, but complete drive systems with accessories, power units and even online condition monitoring.



HÄGGLUNDS VIKING THE MODERN ORIGINAL

Designed for winches over 50 years ago, the Hägglunds Viking has been continuously developed. Elegant in its simplicity, with a rotating casing that allows a direct-mounted band brake, it gives you up to 98 percent starting efficiency and the best winch tension control – which is why it's still the marine standard today.



HÄGGLUNDS ATOM TINY BUT POWERFUL

Revamped and renamed, the Hägglunds Atom is a powerhouse in miniature. The Hägglunds Atom takes over from the existing Hägglunds CAb – supplying not only more revolutions per minute, but also far more power than motors of similar size. The result is a tiny, power-dense package ideal for marine applications.



HÄGGLUNDS CBM UNMATCHED POWER DENSITY

Our development of Hägglunds solutions never stops. The Hägglunds CBm packs 50 percent more torque into a motor that's smaller and up to 50 percent lighter than its predecessor. That creates a truly compact powerhouse – offering you not only the world's highest available torque, but also world's highest torque-to-weight ratio.



HÄGGLUNDS CA COMPACT CONTINUITY

Tried and true for over 30 years, the Hägglunds CA is power-dense and fit for continuous use. Possible to mount with a multi-disc brake on the opposing side or on the rear of the motor, it has a modular construction and a flexible range of valves that enable a space-saving build with just the functions you need.



HÄGGLUNDS CB POWERFUL VERSATILITY

From winch drives and cutter head drives to the slewing drives of pods, the Hägglunds CB opens up new possibilities with its through-hole and many mounting possibilities. Available in a wide range of sizes and displacements, it gives you high flexibility and quick response in heavy-duty applications.



HÄGGLUNDS CBP HIGH-SPEED EFFICIENCY

Featuring a through-hole with splines, the Hägglunds CBp runs at higher speeds with increased efficiency, which brings you new drive solution opportunities. Despite its small size and low weight, it can operate continuously with immense power, for example in applications such as thrusters and pods.

MARINE ACCESSORIES

- Brakes
- Valves
- Speed encoders
- Torque arms
- Bearing brackets
- Stainless steel wear rings
- Protective covers
- Marine painting



MARINE CERTIFICATIONS

We can deliver Hägglunds drives with certifications from major marine classification societies, including ABS and DNV-GL.

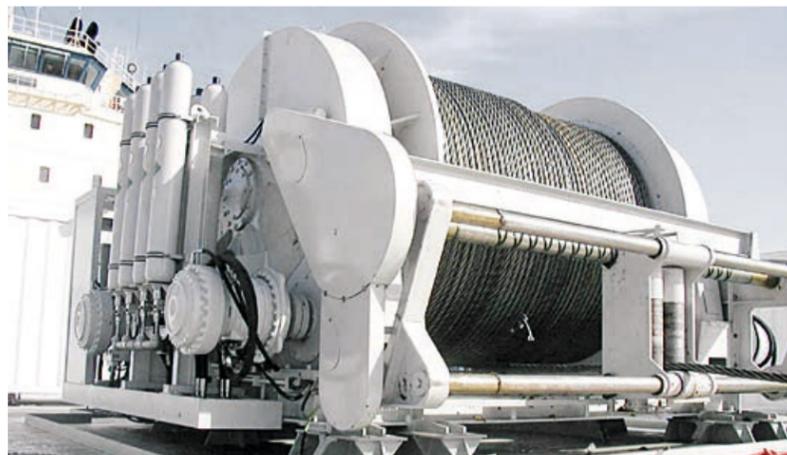
ENVIRONMENTALLY SOUND HYDRAULIC FLUIDS

All Hägglunds motors can be operated with Environmentally Acceptable Lubricants (EAL).





Courtesy by Royal IHC



Designed, engineered and manufactured by ACE Winches



Right where you need us to be

Your productivity is our constant focus. That's why we're ready at your side – on site, around the world and online through cutting-edge connectivity. What you get from our experts and specialist knowledge isn't just support. It's partnership.

No matter where you find yourself, you'll also find Bosch Rexroth. Our global organization is as active locally as it is worldwide, ready to assist with you with engineering, installing, optimizing or upgrading. Around the clock, our experts deliver the services and tailored support to keep you and your equipment going strong.

MOVING YOU FORWARD

Your needs change over time, but we remain dedicated to meeting them. Many of our customers have worked with us for decades, and we've kept them up to date with smart upgrade packages as our modular solutions develop. We'll do the same for you.

RESPONSIBILITY IN EVERY DETAIL

We see that your drive solution works as a whole, which means caring for even its smallest aspects. You get everything you need from a single supplier, from original Hägglunds spare parts to in-depth application knowledge. Each of our Hägglunds products and solutions is fully tested in our own hydraulic laboratory in Sweden.

CONNECTING AT THE FOREFRONT

Today you'll find Hägglunds expertise more accessible than ever, thanks to our Hägglunds Inside Intelligence connectivity solutions. Through Hägglunds CMp, for example, our experts can monitor and keep you aware of your drive system's health – and provide you with valuable insights to improve its use. ●





HÄGGLUNDS
Bosch Rexroth AB
SE-895 80 Mellansel
tel: +46 (0)660 870 00
www.hagglunds.com

R999001513 (2022-04)
© Bosch Rexroth AG 2022
Subject to revision

Häggglunds is a brand of Rexroth, a leading global supplier of drive and control technologies. Häggglunds solutions enrich a comprehensive Rexroth portfolio.

