PRESS INFORMATION

Bosch Bosch reveals fast and power-dense Hägglunds Atom hydraulic motor

Louise Persson | 21/04/2021 | Mellansel | 012/21

The smallest of the Hägglunds hydraulic motors from Bosch Rexroth has been transformed. 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 mobile, marine and recycling applications.

Power in miniscule format

Revamped and renamed, the Hägglunds Atom is a powerhouse in miniature, with a maximum torque of up to 13.6 kNm and a specific torque of 40 Nm/bar. Because it supplies full torque at speeds up to 400 rpm, it has a maximum power of 394 kW that outstrips other motors in its class.

“Never has so much power been packed into a motor this small,” says Wolfram Ulrich, Vice President Sales Hägglunds products and solutions at Bosch Rexroth. “The Hägglunds Atom, with its substantially higher torque and power, is a motor that deserves its name – unthinkably small and light, but with the power to change everything for customers.”

Ready for even tougher applications

Among those who will benefit from the Hägglunds Atom are customers in mobile, marine and recycling applications. The compact and lightweight motor fits easily on a winch on land or at sea, for example, but its peak pressure of up to 420 bar lets it deal easily with shock loads. That opens the door to smaller shredders and other machines in tough and unpredictable applications.

“The Hägglunds Atom is rugged and robust, like our larger Hägglunds motors,” says Ulrich. “That makes it just as dependable as it is versatile.”

The first of many new names

In fact, the Hägglunds Atom is the first of many new names that will appear in the Hägglunds family. In a departure from technical designations, all motors will soon be renamed after natural and scientific phenomena. That reflects not only the extensive development that has occurred since their introduction, but also illustrates its key characteristics today.

“Striking and memorable names will help guide customers to the Hägglunds motor that meets their needs,” says Ulrich. “In a way, this is a strong return to form. The original Hägglunds motor was the Hägglunds Viking – a motor and a name that have never been out of popular use.”

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Wolfram Ulrich, Vice President Sales Hägglunds products and solutions, Bosch Rexroth AG (Image source: Bosch Rexroth AG)

Basic Information Bosch Rexroth

As one of the world's leading suppliers of drive and control technologies, Bosch Rexroth ensures efficient, powerful and safe movement in machines and systems of any size. The company bundles global application experience in the market segments of Mobile Applications, Machinery Applications and Engineering, and Factory Automation. With its intelligent components, customized system solutions and services, Bosch Rexroth is creating the necessary environment for fully connected applications. Bosch Rexroth offers its customers hydraulics, electric drive and control technology, gear technology and linear motion and assembly technology, including software and interfaces to the Internet of Things. With locations in over 80 countries, more than 29,600 associates generated sales revenue of around 5.2 billion euros in 2020.

Basic Information Bosch

The Bosch Group is a leading global supplier of technology and services. It employs roughly 395,000 associates worldwide (as of December 31, 2020). The company generated sales of 71.5

billion euros in 2020. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT provider, Bosch offers innovative solutions for smart homes, Industry 4.0, and connected mobility. Bosch is pursuing a vision of mobility that is sustainable, safe, and exciting. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is to facilitate connected living with products and solutions that either contain artificial intelligence (AI) or have been developed or manufactured with its help. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life." The Bosch Group comprises Robert Bosch GmbH and its roughly 440 subsidiary and regional companies in some 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. With its more than 400 locations worldwide, the Bosch Group has been carbon neutral since the first quarter of 2020. The basis for the company's future growth is its innovative strength. At 129 locations across the globe, Bosch employs some 73,000 associates in research and development, of which nearly 34,000 are software engineers.

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