

Press Release

Bosch Rexroth introduces hydraulic motors with unmatched power density

Extreme power density and high flexibility make hydraulic direct drives the optimal choice in lighter applications

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For Immediate Use



Smaller, yet more powerful, Hägglunds CA 10 to 40 hydraulic motor

Bosch Rexroth has powerfully repackaged its compact series of Hägglunds industrial hydraulic motors. The new Hägglunds CA 10 to 40 motors are far smaller and lighter, yet nothing has changed in their output. This gives them unmatched power density, with the unique ability to deliver full torque and full speed simultaneously.

The new motors will extend the Hägglunds compact series downward to 10 Nm/bar. With extreme power density and high flexibility, they will make hydraulic direct drives the optimal choice in lighter applications.

Initially, the focus for the [Hägglunds CA 10 to 40 series](#) will be injection molding machines in the plastics industry. These machines represent a large portion of the demand at 50 Nm/bar and below. Additional industries and further applications are set to follow in the very near future.

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Unequaled power density

To achieve the unmatched power density of the CA 10 to 40 motors, Bosch Rexroth has reduced the motor diameter while refining the internal construction. These changes have no effect on reliability or output, which is why the motors deliver more kilowatts per kilo than any other. Full speed and full torque are available simultaneously, and both can be sustained for an indefinite time.

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“In designing the series, we’ve used principles similar to those in our proven Hägglunds CBM motors,” says Bengt Liljedahl, Technical Product Manager. “The new CA 10 to 40 motors provide the same power as before but with far less weight – up to three times less than a competitor solution.”

Energy-saving productivity

For customers, the power density means energy and production efficiency. Compared to competitor solutions, CA 10 to 40 motors provide 10 to 15 percent more torque for the amount of energy put in. “Because they weigh so much less, they use less energy in the high-speed range,” says Liljedahl.

Further efficiency comes from the flexibility in the series, which includes four basic models and a wide variety of displacements. Fourteen configurations in small torque steps allow tight dimensioning, as well as full optimization in relation to the hydraulic pumps. The configurations are achieved using just two mechanical interfaces, which means easy adaptation is also possible.

The full range of hydraulic advantages

Combined with the unbeatable power and flexibility of the CA 10 to 40 series are the unique benefits specific to hydraulic radial piston motors. These include a built-in ability to withstand shock loads, as well as perfect internal symmetry. The latter ensures consistent torque throughout the revolution, as well as a perfect balance of forces that minimizes noise and vibration.

From unique power density to high energy efficiency, the new Hägglunds CA 10 to 40 series means powerful benefits in plastics and beyond.

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About 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 drives and controls, 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 30,500 associates generated sales revenue of approximately 5.5 billion euros (\$6.2 billion) in 2017.

To learn more, please visit www.boschrexroth-us.com

About Bosch

Having established a regional presence in 1906 in North America, the Bosch Group employs nearly 34,500 associates in more than 100 locations, as of December 31, 2017. In 2017 Bosch generated consolidated sales of \$13.7 billion in the U.S., Canada and Mexico. For more information, visit twitter.com/boschusa, twitter.com/boschmexico and www.bosch.ca.

The Bosch Group is a leading global supplier of technology and services. It employs roughly 402,000 associates worldwide (as of December 31, 2017). The company generated sales of 78.1 billion euros (\$88.2 billion) in 2017. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT company, Bosch offers innovative solutions for smart homes, smart cities, connected mobility, and connected manufacturing. 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 deliver innovations for a connected life. 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 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. The basis for the company's

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future growth is its innovative strength. At 125 locations across the globe, Bosch employs some 64,500 associates in research and development.

Additional information is available online at www.bosch.com, www.iot.bosch.com, www.bosch-press.com, [www.twitter.com/BoschPresse](https://twitter.com/BoschPresse).

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