

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

IA15003
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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

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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.

About Bosch Rexroth:

Economical, precise, safe, and energy efficient: drive and control technology from

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Bosch Rexroth moves machines and systems of any size. The company bundles global application experience in the market segments of Mobile Applications, Machinery Applications and Engineering, Factory Automation, and Renewable Energies to develop innovative components as well as tailored system solutions and services. Bosch Rexroth offers its customers hydraulics, electric drives and controls, gear technology, and linear motion and assembly technology all from one source. With locations in over 80 countries, roughly 36,700 associates generated sales revenue of approximately 5.7 billion euros (\$7.6 billion) in 2013. To learn more, please visit www.boschrexroth-us.com

About Bosch:

The Bosch Group is a leading global supplier of technology and services. In 2013, its roughly 281,000 associates generated sales of 46.1 billion euros (\$61.2 billion.) (NB: Due to a change in accounting policies, the 2013 figures can only be compared to a limited extent with the 2012 figures). Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. The Bosch Group comprises Robert Bosch GmbH and its roughly 360 subsidiaries and regional companies in some 50 countries. If its sales and service partners are included, then Bosch is represented in roughly 150 countries. This worldwide development, manufacturing, and sales network is the foundation for further growth. In 2013, the Bosch Group invested some 4.5 billion euros in research and development and applied for some 5,000 patents. This is an average of 20 patents per day. The Bosch Group's products and services are designed to fascinate, and to improve the quality of life by providing solutions which are both innovative and beneficial. In this way, the company offers technology worldwide that is "Invented for life." Additional information is available online at www.bosch.com, www.bosch-press.com and <http://twitter.com/BoschPresse>

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