Press Information

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Why Parker servo motor kits enable compact size and better performing systems

The accompanying image can be downloaded in
high and low resolution by clicking here

April, 2016 – Parker Hannifin, the global leader in motion and control technologies, has built up considerable first-hand experience over many years about the complex topic of how to integrate servo motor kits into machines, especially when working in conjunction with demanding OEMs. Now, Parker is looking to share this wealth of experience with the machine buildering community and in particular those seeking unrivalled precision, reliability and robustness in comparison with conventional machine construction techniques.

When it comes to selection of the right servo motors, Parker has turned the re-engineered the process to deliver high performance servo motor kits that can be skillfully be integrated directly into today's sophisticated machines. This approach gives a variety of benefits to the customer including, improved ROI, increased design flexibility, end-user energy savings, compact dimensions, overall machine performance improvements, and not to be forgotten more secure intellectual property.

Usually design engineers have used standard servo motor solutions, which frequently need to be adapted to the machine's mechanical configuration using couplings.

Traditionally the construction of the machine starts with the functional definition of the system being specified by the mechanical design department. In turn, this is followed by the search for standard motorization, which often must be modified to the mechanical system with various couplings, gearboxes and flanges etc. Parker engineers like to get involved as early as possible in the machine design phase. That way, working in close partnership, the main elements, of the

stator and rotor will be selected to seamlessly integrate with the aim from the outset of reducing complexity.

The ‘kit’ servo motor approach offers many advantages over traditional technologies:

- Maximum energy efficiency as all couplings and mechanical components (pulleys, belts, gearboxes etc.) usually necessary for the motor adaptation are not required.
- Reduced footprint and total weight.
- A unique solution thanks to mechanical and electrical adaptation to the corresponding application requirements.
- Reduced maintenance thanks to the mechanical simplification of the machine.
- Quiet operation especially when water-cooled solutions are used.

The components for Parker’s kits come from its proven, high performance, standard motor platform that ensures quick availability. The parts are already used in global sectors such as energy, medical, machine tools and industrial machinery.

A complete range of products is available to meet the design needs of many different mechanical systems. The NK kit series for example, is available with a torque range of up to 42 Nm, while for more demanding applications the NKW water-cooled series covers the range up to 72 Nm (for speeds up to 15,000 rpm). In addition, Parker’s K series is available for low voltage applications. Several sensor types can be used with the motor kits, depending on application requirements such as robustness, resolution and accuracy.

Parker’s experience and know-how in the design, manufacture and integration of frameless servo motors means that the company can also offer other high-speed solutions with its HKW and SKW series, as well as the high torque TKW series. In addition, Parker is happy to develop highly customised solutions upon request.

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Image caption: Parker’s frameless servo motor range is an innovative and unique solution for more compact and better performing systems.

About Parker Hannifin
With annual sales of approximately $13 billion in fiscal year 2015, Parker Hannifin is the world's leading diversified manufacturer of motion and control technologies and systems, providing precision-engineered solutions for a wide variety of mobile, industrial and aerospace markets. The company employs approximately 55,000 people in 50 countries around the world. Parker has increased its annual dividends paid to shareholders for 59 consecutive fiscal years, among the top five longest-running dividend-increase records in the S&P 500 index. For more information, visit the company's website at www.parker.com, or its investor information website at www.phstock.com