

Parker's Custom Servo Motors



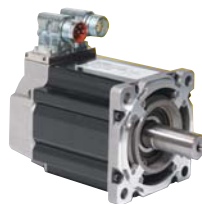
From life science applications demanding the highest precision and cleanroom standards to the largest industrial systems found on the factory floor, Parker Hannifin offers a motor for every motion control solution. And if our standard motors do not fit your brushless servo application, Parker can modify any of our motors to better meet your requirements. In order to ensure your custom motor is made specifically to your requirements, our design team will work closely with your engineers to verify all motor specifications and designs. It is a two way street, our design teams are communicating throughout the process, from order to installation.

Parkermotion.com/motors

Compumotor has the broadest rotary servo motor product range available. Whether you use one of our standard motors or a custom motor, we can meet the needs of your specific application.

Our motors are segmented into three product families: the MPP, BE, and SM. Each has unique design characteristics that are optimized to fit your needs.

MPP motors are available with such standard options as multiple winding variations, right-angle swivel connectors, various feedback devices, and an IP65 environmental rating. This is the highest-performing servo motor available in the market today.



BE motors have a laminated housing and bridged stator design, which means this is one of the highest torque density motors available. This motor is perfect for your lower-torque, higher-performance applications.



SM motors have a toothless stator design for extremely smooth applications. The SM has a higher rotor inertia than any other servo motor we manufacture. These motor families offer output torque ratings from 2 oz-in to 4000 in-lbs. of continuous torque (fractional to 100 HP servo motors).





Custom Motors for Every Application

While many customers find that Parker's standard motors suit their application needs, others need something unique. They may need an oil-cooled motor that will run underwater or submerged in oil. Maybe they're looking for a motor with a hollow shaft through which they can run a vacuum line. Or perhaps their application demands a sensorless motor (no encoder), to operate in extreme heat conditions.

In these cases and many more, Parker is happy to modify any one of our motors to better meet special requirements. Common customizations include:

- Shafts
- Brakes
- Flanges (bolt circle, pilot, NEMA dimensions)
- Motor coatings (white, PTFE, steel-it grey)
- Non-standard feedback devices
- Special connectors
- Special stator windings

Parker provides this custom capability for one reason: to make it easier for you to integrate a Parker servo motor into your system. The diagram below depicts just a few of the many possible motor options we can offer:

How Can We Do It?

In addition to being a lean manufacturing plant, Parker Compumotor uses one-piece flow, Kan Ban inventory and a vertically integrated assembly process that allows us full flexibility in the design and manufacture of servo motors with minimal impact on price and availability. All motors are manufactured in our New Ulm, MN, facility, with nearly all our components machined in our own machining centers. We require no minimum quantities for custom orders, and we frequently manufacture and ship custom motors within the same time frame as our standard products. Often, a custom servo motor can be delivered at a lower cost than you might expect.

Quality is everywhere in the Parker Electromechanical Automation facility. As part of being an ISO9001 - 2000 facility, all processes and procedures are strictly documented. All motors are tested by a fully automated system, so you can be certain that when you receive your motor, it is completely tested and built to the highest standards.

Other custom designs include:

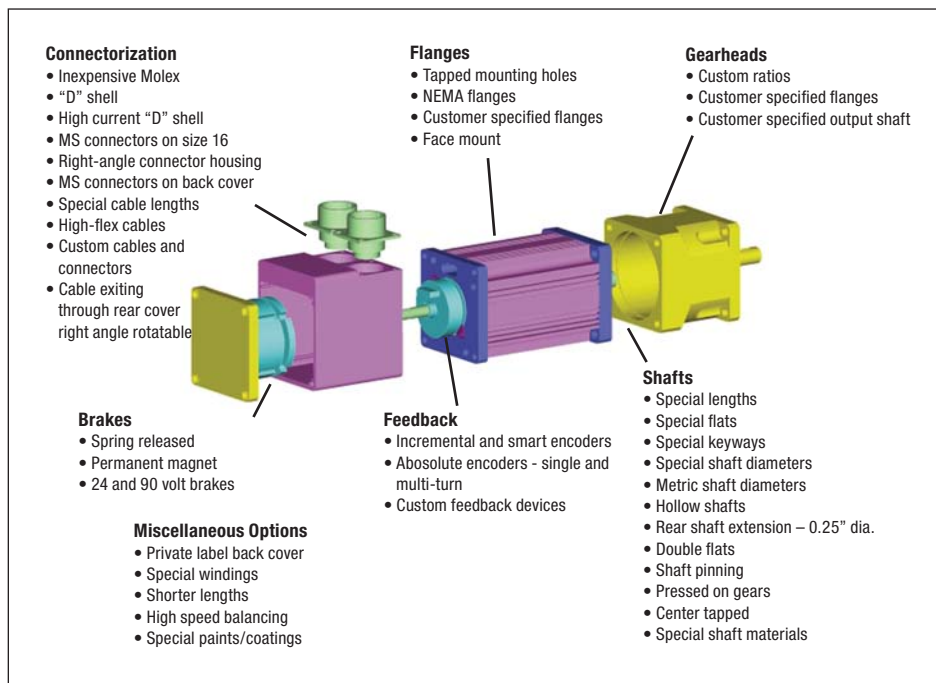
- Ballscrew motors with the nut of the ballscrew mounted to the end of the motor shaft. The motor shaft is hollow, to allow the shaft to move inside of it.

- Kit motors allowing you to mount just the stator into your own motor housing.
- Motors for -40° C operation.
- Motors rated for vacuum operation up to 10⁻⁵ Torr.
- High-speed motors with custom windings up to 20,000 rpm.

Need to match a competitor's motor with special feedback, special line count or special alignment? Feedback devices are never a problem for our engineers. We can supply custom feedback devices to work with whatever drive is available. This also applies to front-end caps. If you need to match a competitor's motor with special mounting flange, NEMA, IEC, etc., our engineers stand ready to assist you.

Next time you have any servo motor requirements, be sure to contact your Parker servo motor manufacturer.

Parker Hannifin
 2101 North Broadway
 New Ulm, MN 56073
 1-800-967-1785
parkermotion.com/motors



Savings Tip:

Looking for the most cost-effective solution possible? In the servo industry, current is expensive. We can often optimize the motor winding, allowing you to use a lower-current output drive. You might also consider a fan-cooled or water-cooled motor. These motors provide more torque and can be less expensive than adding a magnet stack length or two to the motor.

Drop-in Replacements

As part of our custom capabilities, we routinely build Parker motors to replace our competitors' motors, especially those that are hard to find or are no longer available. We can match mechanical and electrical specifications for a drop-in replacement, making a conversion simple. If you currently have applications and equipment with non-Parker servo motors, give us a call.