We do motors offering a complete line of motor products meeting a broad range of applications.
Directions:
Apply once. No need
to repeat.
one-stop shop for all your motor needs.

We offer a complete line of motor products meeting a broad range of applications. Parker Trilogy’s linear motors offer industry leading solutions for both ironcore and ironless technologies. Our complete family of servo motors includes the high-torque MPP Series, the smooth/high-inertia SM Series and the cost-effective BE Series. The Parker Bayside family of servo motors includes gearmotors, kit motors and Food Grade Gearmotors. We also have a wide variety of step motors offering cost-effective solutions. Finally, we have the ability to build a broad range of custom servo motors. Please Visit: parkermotion.com/onestop for more information.
Packaging (filling/gantry/palletizing), material handling (inspection/analyzer), dispensing), medical (insertion/paste electronic assembly

Ideal applications for control and much more.

Motion-parameter velocity control, encoder following, torque and back of a high-quality — all packed into the controller and I/O

A servo motor, package, combining system in a single servo motion control

The iBE is a complete motor/drive, controller and I/O — all packed into the back of a high-quality brushless servo motor. The iBE is capable of coordinated motion, cam following, torque and velocity control, encoder following, on-the-fly motion-parameter control and much more.

Ideal applications for the iBE motor include electronic assembly [insertion/paste dispensing], medical [inspection/analyzer], material handling (gantry/palletizing), packaging [filling/printing] and biomedical [portable devices].

Integrative Motor/Drive

Integrated Motor/Drive

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Rotary Servo Motors

Parker’s rotary servo motors use slotless, bridged or segmented stator technology in their motor designs. All these designs reduce motor manufacturing costs while increasing performance. The slotless design (i.e., the SM Series) eliminates detent torque in the motor, providing extremely smooth operation. The bridged design (i.e., the BE Series) and the segmented stator design (i.e., Parker’s newest motor family, the MPP Series) result in extremely high torque-to-inertia ratios, providing a performance advantage in applications requiring high acceleration.

Linear Motors

Parker’s newest linear motor offerings include ironcore and ironless designs. Our RIPPED Series of ironcore motors uses patent-pending anti-cog technology to allow the motors to become a viable solution in many applications that traditionally would require a more expensive ironless solution for very smooth motion. Parker’s I-Force ironless linear motors, meanwhile, have no attractive force toward the magnets and are designed for maximum efficiency; their patented I-beam-shaped coil provides high-force density and excellent thermal efficiency.

Stepper Motors

The LV (Low Voltage) and HV (High Voltage) motor series provides outstanding performance at a competitive price. The LV 11, 14 and 17 frame motors are ideal for space-constrained or miniature-motion applications. This series also includes 23 and 34 frame sizes for larger applications requiring more torque. The LV motors are rated for use with drives running up to 80 VDC. The HV series includes 17, 23 and 34 frame motor sizes for use with drives running on 120 VAC power.

Gearmotors

Parker gearmotors represent the first time a brushless servo motor and a helical planetary gearhead have been integrated into a single product. Previously, engineers needing a gear drive with a servo were forced to purchase the gearhead and servo separately. We manufacture the Stealth precision gearmotor under one roof, allowing us to supply precision integrated gearmotors in a compact, powerful and cost-effective solution. Units are available in a wide variety of frame sizes, ratios and other options for all servo gearmotor needs.

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Integrated Motor/Drive

The iBE is a complete servo motion control system in a single package, combining a servo motor drive, controller and I/O — all packed into the back of a high-quality brushless servo motor. The iBE is capable of coordinated motion, cam following, torque and velocity control, encoder following, on-the-fly motion-parameter control and much more. Ideal applications for the iBE motor include electronic assembly [insertion/paste dispensing], medical [inspection/analyzer], material handling (gantry/palletizing), packaging [filling/printing] and biomedical [portable devices].

Direct-Drive Brushless Servo Motor

The Dynaserv DM Series is a high-performance direct-drive servo motor with optical encoder feedback. The motor is an outer-rotor type that contains precision bearings, magnetic components and integral feedback in a compact package and provides direct motion of the outside housing of the motor and thus the load. Brushless and without gears, the DM provides very high torque, eliminates the backlash or hysteresis inevitable in using any speed reducer and allows for long, maintenance-free operation.

Frameless Kit Motors

Frameless motors eliminate the need for the traditional coupling, increasing system stiffness. Now the engineer has complete control over the motor-to-product interface by allowing the engineer to position the motor within the product to adapt to design constraints. Parker’s frameless kit motors are ideal solutions for machine designs that require high performance in small spaces. They allow direct integration with a mechanical transmission device, eliminating parts that add size and complication.

Food Grade Gearmotor

Parker’s high-performance washdown series Gearmotor were co-designed with engineers from the world’s largest food-processing plants to guarantee the right solution for the most demanding applications. Ideal for above-food-line applications, our IP67-rated Food Grade Gearmotors feature a non-corrosive housing for extremely long life, field-serviceable seals for easy maintainability, multiple ratios, a paint-free exterior, a shaft PTFE seal, conduit fittings, a 316 SST single-piece housing and high-density copper-fill and rare-earth magnets.

Custom Servo Motors

If our standard servo motors don’t fit your application, Parker can modify any one of our rotary or linear motors to meet your requirements. We offer custom connectors, shafts, mountings, windings, feedback devices, coatings or almost any other modification built to your specification. We can also offer replacements for many other suppliers’ motors including Rockwell’s N-Series. Custom curved linear motors are made with a wide variety of force levels and curvatures using standard magnets and windings. Parker’s modern manufacturing system allows us to provide custom motors or cables with minimal impact on price and availability.
SM Series Motors

High-Performance Slotless Design

The SM Series brushless servo motors feature a slotless stator design. This design eliminates all detent torque in the motor, allowing the SM Series motors to provide extremely smooth motion, especially at low speeds. The slotless design also creates a higher rotor inertia, which is ideal for applications involving high inertial loads (such as lead screws and belt drives).

The SM Series motors also feature a rugged anodized aluminum body and connector housing. An IP65 rating can be obtained on motors with MS connectors and an optional shaft seal. All SM motors are CE (LVD) compliant. The SM Series servo motors are available with integrated planetary gearheads in ratios up to 100:1. Our unique package integrates the gearhead pinion into the motor shaft, reducing the overall package length by up to 2 inches.

---

Part Numbering System

<table>
<thead>
<tr>
<th>SM</th>
<th>232</th>
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<th>E-</th>
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<td>K - keyway</td>
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SM Series Features

- Size 16 and 23
- 0.8 to 11.3 lb-in continuous torque
- Brushless construction
- Slotless design
  - Negligible detent torque
  - Reduced torque ripple
  - Medium inertia
- High-performance neodymium magnets
- Thermostat protected
- TENV housing
- IP65 option
- Feedback options
  - Encoder/Hall effect
  - Hall-effect only
  - Resolver
  - Smart encoder
- Connectorization choices
- Special winding availability
- Ten-day deliveries
- Two-year warranty
- CAD (.dxf) drawings available
- CE compliant

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1 Includes Hall-effect
2 Not available on size 16 or SM230
3 Cable is hard-wired
4 Sizes 16 and 23 w/ MS, TQ or GS connectors—IP65.
5 Size 23 only
6 See amplifier sections for specific motor/amplifier compatibility
7 Specify "K" shaft option with Gearheads
MPP Series Motors
Low Inertia, Higher Power

The MaxPlusPlus (MPP) series of brushless servo motors from Parker features a new design that offers lower inertia and higher power, all in a smaller motor package. These brushless servo motors are designed for the demanding applications found in today’s high-performance servo systems.

The MPP motors feature segmented core technology, which can yield up to 40% higher torque per unit size than conventionally wound servo motors. “Potted” stators improve heat transfer for better thermal efficiency, resulting in increased torque at the motor shaft. High-energy neodymium magnets are employed for higher rates of acceleration.

Parker will customize any MPP motor to meet your specific system requirements. Parker does customs like no one else. We are specialists at customs, offering unrivaled custom motor solutions and support. Common customizations include:

- Shafts (longer, shorter, diameter change, hollow shafts)
- Front flange (bolt circle, pilot, NEMA dimensions)
- Motors coatings (white, PTFE, steel-it grey)
- Non-standard feedback devices
- Special connectors
- Special stator winding

MPP Motor Features
- Segmented core technology - 40% higher torque
- Potted stator design - improved thermal efficiency
- Size 92, 100, 115, 142, 190, 230, and 270
- Continuous torque: 1.3 Nm (12 lb-in) to 146 Nm (1295 lb-in)
- Continuous stall torque: 1.5 Nm (14 lb-in) to 162 Nm (1434 lb-in)
- Peak torque: 5 Nm (44 lb-in) to 513 Nm (4540 lb-in)
- Brushless construction
- High-performance neodymium magnets
- Thermistor protection
- Resolver, incremental encoder, or absolute encoder (single or multi-turn)
- 24 volt failsafe brake (optional)
- “Rotatable” right-angle PS-style connectors
- Optional IP65 shaft seal
- Two-year warranty
BE Series Motors
High-Torque Design, Low-Cost package

Parker’s BE Series brushless servo motors produce high continuous stall torque in a cost-reduced package.

The increased torque of the BE Series motors is the result of an increased number of magnetic poles on the rotor. Traditional motors in these frame sizes have four magnetic poles on the rotor, while the BE Series motors have eight poles.

The cost reduction of the BE Series motors is achieved from their open-lamination design. Unlike a traditional servo motor, the BE Series motors do not have a metal housing. Instead, the laminations of the motor stator are shaped into the body of the motor. This design reduces both material costs and time required for assembling the motor.

The BE Series motors are created using Parker’s proven bridged stator design. This two-piece lamination design simplifies the manufacturing process, creating further cost savings. The bridged stator construction also results in less audible noise being generated by the motor.

The BE Series servo motors are available with integrated planetary gearheads in ratios up to 100:1. Our unique package integrates the gearhead pinion into the motor shaft, reducing the overall package length by up to 2 inches.

BE Motor Features
- Sizes 16, 23 and 34
- 1.4 to 46 lb-in continuous torque
- Brushless construction
- High torque density packaging
- Bridged stator design - quiet
- High-performance neodymium magnets
- Thermal switch protection
- 2000 line encoder standard
- Resolver feedback option
- Connectorization choices
- 10-day deliveries
- Two-year warranty
- CAD (.dxf) drawings available
- CE compliant

Part Numbering System

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<tr>
<th>BE</th>
<th>342</th>
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</table>

1 Encoder feedback motors only
2 Refer to “Wiring and Cable Specifications” section for connector wiring
3 Not available on size 16
4 Specify “K” shaft option with gearheads
LV & HV Step Motors
High-Performance Stepping in a Wide Variety of Sizes and Voltages

The LV (Low Voltage) and HV (High Voltage) motor series provides outstanding performance at a competitive price.

The LV 11, 14 and 17 frame motors are ideal for space-constrained or miniature-motion applications. This series also includes 23 and 34 frame sizes for larger applications requiring more torque. The LV motors are rated for use with drives running up to 80 VDC.

The HV series includes 17, 23 and 34 frame motor sizes for use with drives running off of 120 VAC power.

Part Numbering System

LV 23 1- 02- FL

Series Frame Stack Shaft FL
LV 11 1 01 - Single shaft FL - 18” Flying leads
HV 14 2 02 - Double shaft 10 - 10’ attached cable
17 3 23 3 24 3

LV & HV Motor Features
- High performance
- Cost effective
- Optimized motors for both low-voltage and high-voltage applications
- Five frame sizes from size 11 to 34
- Static torques from 5 to 1000 oz-in.
RIPPED Ironcore Motors

Ultra-Smooth, Anti-Cog Technology

Ironcore linear motors can produce the large forces needed for many industrial applications. With this force comes an even larger force between the coils and the magnets. Ironcore motors use steel alloy laminations to concentrate and focus the magnetic flux but also produce a large attractive force. The coil must be held off the magnet track by about 1mm through the use of mechanical or air bearings.

Unlike Ironless motors, Ironcore motors typically have a cogging or ripple force. There are two causes of this unwanted force. The first cause is interaction between the leading and trailing edges of the laminations as they pass over a north and south pole magnet during motion. The second is ripple caused by the internal lamination teeth passing over the magnets.

Parker Trilogy’s RIPPED Ironcore motors use a unique, proprietary lamination design that virtually eliminates ripple caused by the internal lamination teeth. This design also significantly reduces the ripple from the leading/trailing lamination edges. Other Ironcore motor competitors must skew their magnets to reduce ripple. This in turn decreases the motor’s peak force. Magnets are not skewed in RIPPED motors due to the effectiveness of our lamination and winding design.

RIPPED motors use Parker’s innovative connector module. Connector modules include the motor power and overtemp connections, HEDs, Home and Limit sensors. The removable connector module enables quick and reliable replacement of worn or damaged cables in the field.

RIPPED Ironcore Motor Features

- Ideal for high-force applications
- Patent-pending ultra-smooth, anti-cog technology
- Three series of motors (R7, R10, R16) with 3 different coil lengths
- Peak forces to 9342N (2100lb), continuous forces to 2348N (528lb)
- Connector modules allow quick and easy installation
- Internal thermal cutout switch protects coil
- Digital HEDs, home and limit sensors incorporated into connector module
- Modular magnet tracks with flush-mounted magnet separators
- Built-in cable strain relief
- Two lengths of modular magnet tracks allow unlimited length of travel
I-FORCE Ironless Motors
High Force Density, Maximun Efficiency

Ironless linear motors are also known as air-core linear motors. Ironless motors are characterized by having no attractive force toward the magnets. A coil assembly typically moves between two opposite facing rows of magnets.

Parker Trilogy invented and patented (RE34674) the first ironless motor to use thermally conductive epoxy together with the windings as a primary structural element. This is now the standard construction method adopted and used by all of our competitors.

Parker Trilogy developed a vacuum encapsulation process that allows our motors to be used in high vacuums found in semiconductor applications. Our vacuum molding process removes entrained and entrapped air that could possibly foul the process vacuum.

Ironless motors can have overlapping windings, creating the I-beam shape, or non-overlapping windings, creating a T-shape when the coil bar is included. Motors with overlapped, I-beam windings contain about 15% more copper and efficiency than the non-overlapped windings. With the I-beam-shaped coil, less heat is produced for a given motor size. Alternately, a smaller I-beam coil will deliver the same force as the T-shaped motor coil. The I-beam shape also provides more top mounting surface area for heat removal.

Parker Trilogy Ironless motors have molded-in Hall effect devices with 1 motor or 2 motor/HED cables coming out of the coil assembly. This approach, unique to Parker, protects the HED circuit board from the industrial environment and from mechanical damage. Peak accelerations up to 15g and speeds to 350 inches/sec are possible. Accelerations of 3-7g’s and 4m/sec are common. Positioning resolutions down to nanometers are also common.
Stealth Servo Gearmotor

Revolutionary Design

When to Use:
• High torque in compact package
• Reduce mechanical complexity
• Cost reduction

Applications:
• Automotive
• Machine Tool
• Material Handling
• Medical
• Packaging
• Paper Converting
• Robotics
• Semiconductor

Parker Bayside’s Stealth® represents the first time a brushless servo motor and a helical planetary gearhead have been integrated into a single product. Previously, engineers needing a gear drive with servo motor were forced to purchase the gearhead and motor separately. Parker Bayside manufactures precision gearheads and brushless motors under one roof. This provides us with the unique ability to design and supply precision integrated gearmotors.

Stealth® gearmotors combine both mechanical and electronic parts into a compact, powerful package. The motor magnets are attached directly to the input gearshaft, eliminating the extra couplings, shafts and bearings required when the two components are separate. Eliminating these extra parts means that Stealth gearmotors are more reliable, have higher performance and cost less than traditional motor/gearhead assemblies.

Gearmotor Features
• Large output bearings for high radial loads
• IP65 protection with viton seals, DIN-type connectors, O-rings and an anodized aluminum alloy housing for use in harsh environments
• High-density copper windings and rare-earth magnets provides maximum torque and efficiency
• Skewed laminations with odd slot counts reduce cogging
• Duplex angular contact bearing for optimum motor assembly stiffness
• Modular encoders, resolvers and brakes offered standard without increasing package size
• Two winding options, single or double stack motors and multiple gear ratios for a wide range of torques and speeds
• Single-piece construction of rotor and sun gear guarantees alignment for smooth operation
• Motor, gearhead and encoder in one compact package eliminates extra parts, improving reliability and performance
• Stealth® helical planetary output provides high torques, low backlash and quiet, reliable performance
• Innovative thermal design runs 20% cooler than a separate motor/gearhead assembly
• Stainless steel output shaft won’t rust in corrosive environments
Food Grade Gearmotor

Washdown Motors for Harsh Conditions

Applications:
• Food processing
• Pharmaceutical
• Chemical processing
• Material handling
• Semiconductors
• Packaging

Parker Bayside, a leading innovator within the motion control industry, is proud to provide servo solutions for the harshest environments. Parker Bayside’s high-performance washdown series servo gearmotors and servo motors were co-designed, with engineers from the world’s largest food-processing plants—guaranteeing the right solution for the most demanding applications. Whether it be food processing, pharmaceutical or material handling, Parker Bayside’s commitment is to provide solutions designed to make automated machines run faster, better and at a lower cost!

Food Grade Gearmotor Features
• 316 SST single-piece housing
• Paint-free exterior
• Stealth® helical planetary gears
• Brushless motor
• Large output bearings
• IP67 dual output seals
• Shaft seals are PTFE and viton
• Conduit fittings
• Ease of wiring via internal terminal blocks
• 115, 230 & 460Vac (160, 300 & 600Vdc) operation
• 2000 LPR encoder or resolver
The Dynaserv G3 system consists of a direct-drive servo motor, digital servo drive and a resolver or encoder for position feedback. The primary benefit of the Dynaserv system is high accuracy and torque without speed reducers. Additional advantages include:

• Faster settling time than a traditional servo motor and speed reducer system
• Smooth rotation at slow speeds
• A flat speed/torque curve for high controllability

The G3 motors utilize an outer-rotor design for maximum application benefit. This design offers the highest torque per package size of any motor in its class. The stationary interior section increases the usability of the aperture for routing cables and airlines. The motor bearings are sealed and lubricated for life, eliminating maintenance issues associated with gear reducers. The motor’s sealed design is well suited for cleanroom applications, and with minimal attention to installation considerations, the motors are also a good fit in more industrial applications.

Applications that require high accelerations and short cycle times, such as material handling and turrets, will benefit from the Dynaserv. In scanning and inspection applications, the outstanding low-speed performance will be of merit. The motors can also be used as precision rotary tables, with run-out as low as 5 microns.

Dynaserv systems come complete with a digital servo drive that is exactly matched to the motor’s performance requirements. The drives can operate in torque or velocity mode in conjunction with an upper motion control, or in position mode where the user can take advantage of the drive’s outstanding servo-loop capability and auto-tuning feature. The same drive can also operate as a single-axis controller, with simple set-up for index moves.

Each Dynaserv is a complete servo system, with a single part number for convenient ordering of drive motor and cables assuring the user of getting all the proper components for a direct-drive system.

Dynaserv G3 Servo Motor Features

• 29 models: 4-, 6-, 8-, or 10-inch diameter
• Incremental encoder or resolver feedback
• Apertures up to 150mm
• Outer rotor design for optimal control
• Resolutions to 4,096,000 steps/rev
• Torques to 370 ft-lb (500 Nm)
• Repeatability to ±1 arc seconds
• Axial and radial run-out to 0.1mm

- Select models available with run-out of 0.005 mm
• Cleanroom operation
• Includes 10ft cables with connectors
• Selectable cable lengths also available

Dynaserv G3 Digital Servo Drive Features

• Operates in position, velocity or torque modes
• Built-in index move capability
• Advanced control and filtering designed for direct drive
• Low pass, notch and velocity loop filters
• Regeneration power monitoring
• UL, CE certified
• Optional display panel for diagnostic information and parameter changes
• Includes DrvX3 Support Software Tool
  - Drive set-up and configuration
  - Auto-tuning functionality
  - Oscilloscope
  - Diagnostics and monitoring tools
  - Error/alarm history log
• User-configurable I/O
• RS232C/485 interface
• Screwless terminal strip connections
Frameless Kit Motor
High Performance in Small spaces

When to Use:
• A significant cost savings
• Reduced mechanical complexity
• Greater design flexibility
• High performance in a compact package
• Improved dynamic response and settling
• Minimum motor size per application space
• Low cogging for smooth operation
• Low inertia for high acceleration

Applications:
• Automotive
• Machine tool
• Material handling
• Packaging
• Robotics
• Semiconductor

Direct-drive motor construction gives equipment designers the advantages of lowered costs, increased reliability and improved performance. Frameless kit motors are the most cost effective direct drive motor solutions available. Kit motors save space in applications because the couplings, motor mounting brackets and extra bearings you would find in coupled drive construction are eliminated. Since there are fewer moving parts, the direct drive kit motor approach allows for a more reliable and compact design.

The Kit Motor Approach: Reliable and Compact
Frameless kit motors are the ideal solution for machine designs that require high performance in small spaces. Kit motors allow for direct integration with a mechanical transmission device, eliminating parts that add size and compliance. Use of frameless kit motors results in a smaller, more reliable motor package.

Frameless Kit Motor Features
• Pre-installed integral commutation board with Hall effects is prealigned for easy assembly. Motor and feedback as integrated unit
• Rare-earth magnets provide high flux in a small volume, high resistance to thermal demagnetizing
• Rotor assembly for easy mounting directly on the drive shaft with or without keyway
• Machined grooves to securely lock magnets to rotor and ensures optimized radial location
• Class H insulation for high-temperature operation (up-to 155ºC) meeting UL approved requirements
• High density copper winding for low thermal resistance and consistent performance across all motors
• Minimized end turns to maximize performance. Formed to minimize motor size
• Skewed laminations with odd slot counts reduce cogging for precise rotary motion with drastically reduced torque ripple even at low speeds
• Optimized slot fill for maximum torque-to-size ratio, hand inserted to obtain highest slot fill possible, maximizing ampere-turns
For those applications where you have limited space, yet need performance, the iBE motor from Parker Hannifin is an excellent solution. The iBE is an entire motion control system, combining a servo motor, drive, controller, encoder and I/O in a single package. This small package yields tremendous performance, as the iBE is built on the industry-leading compact, high torque density BE motor.

Programming is simple with iWare, a Windows-based software interface. The iBE can solve applications ranging from simple indexing all the way to cam following. If your application is currently using stepper motors, the iBE is an optimal upgrade path. You still maintain an easy-to-use, low-cost solution, yet the iBE and its superior performance will yield much higher throughput, with more dollars added to your bottom line.

iBE Motor Features
Performance
- Single-axis package motor/drive/controller
- 37-330 oz-in continuous torque
- Brushless DC servo motor
- Operates in position, velocity or torque mode
- Dual-encoder capability
- Limit switch inputs
- 7 programmable inputs or outputs

Language
- Easy Windows® software interface - iWare
- EEPROM for 32K of user program storage
- Multiple modes including camming and step & direction
- Infinite ratio gearing
- Change parameters on the fly

Protection
- Software current limit
- Thermal protection

Physical
- Single 24-48 VDC voltage input
- Battery operation is possible

Connectivity
- RS232/RS485 port
Custom Designed Servo Motors for Your Specific Application!

Parker offers a broad range of standard options with all of our brushless servo motor families. Our numerous shaft, feedback and connection options will fulfill the needs of most of our customers. However, we realize that from time to time the need arises to have a custom motor designed specifically for your application.

Whether you need custom connectors, mounting or a custom winding, Parker can build a motor designed to your exact specifications. Parker provides these special designs for our customers with:

- Minimal impact on product lead time
- Modest impact on pricing
- No minimum quantities

Parker’s modern manufacturing system allows us to offer custom motor solutions without sacrificing product quality and availability. All of our custom motors are built in our standard servo motor work cell, and our computerized custom product tracking system allows us to provide consistent, high-quality custom products. And, because custom motor manufacturing is integrated into our standard manufacturing process, we can often build and ship custom-designed motors and cables in the same time frame as standard products.

Parker provides this service for one simple reason: to make it easier for you, our customer, to integrate a Parker servo motor into your application. We provide more than just a component, we provide a custom designed servo motor solution. Custom designed servo motors for your specific application!

**Connectorization**
- Molex
- "D" shell
- MS connectors on size 16
- Right angle connector housing
- MS connectors on back cover
- Special cable lengths
- Hi-flex cables
- Customer specified cables and connectors
- Cable exiting thru back cover

**Brakes**
- SM16, 1 & 3 in. lb. brake, external
- SM23, 3 in. lb. brake, external
- SM23, 10 in. lb. brake, enclosed

**Flanges**
- Tapped mounting holes
- NEMA 34 flange
- Customer specified flanges
- Face mount

**Gearheads**
- Custom ratio
- Customer specified flanges
- Customer specified output shaft

**Shafts**
- Special lengths
- Special flats
- Special keyways
- Metric shaft diameters
- Hollow shafts
- Rear Shaft Extension – 0.25” dia.
- Double flats
- Shaft pinning
- Pressed on gears
- Center tapped
- Harder shaft materials (431 S. S.)

**Feedback**
- 1250 line encoders
- 2000 line encoders
- 5000, 8196 line encoders

**Miscellaneous Options**
- Private label back cover
- Special windings
- Shorter lengths
- High speed balancing
- Different or no anodizing

Custom Servo Motor Features
- Minimal impact on product lead times
- Modest impact on pricing
- No minimum quantities
- Replacement for many other suppliers’ motors
We offer a complete line of motor products meeting a broad range of applications. Parker Trilogy’s linear motors offer industry leading solutions for both ironcore and ironless technologies. Our complete family of servo motors includes the high torque MPP family, the smooth/high interia SM family and the cost effective BE family. Parker Bayside offers unique variants of servo motors such as gearmotors, kit motors and stainless steel motors. We also have a wide variety of step motors offering cost effective solutions. Finally, we have the ability to build a broad range of custom servo motors.