

Complementary Products



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Parker Hannifin Corporation
 Actuator Division
 Wadsworth, Ohio USA
 Phone: 1-866-PARK-ACT
 email: actuatorsales@parker.com
 website: www.parker.com/actuator

Linear Actuators



ETR Series Electric Cylinders



The new ETR Series features a high-performance roller screw drive for high-thrust applications that demand performance and longevity. High-performance tapered roller thrust bearings ensure long life.

- Stainless steel thrust tube
- Internal tie rods permit high thrusts
- Anti-rotate guide bearing
- Tapered roller thrust bearings
- CAD drawings available

For more information, visit www.parker.com/actuator.

Series	ETR50	ETR80	ETR100	ETR125
Max thrust N (lbf)	6,500 (1,460)	18,000 (4,045)	45,200 (10,110)	100,000 (22,470)
Max velocity m/sec (in/sec)	1.2 (47)	0.93 (24)	1.3 (50)	0.97 (25)
Rated acceleration (g's)	0.9	1.1	2.2	2.2
Max travel (m)	0.8	0.8	1.0	1.0
Repeatability (mm)	±0.025	±0.025	±0.025	±0.025

LR Series Linear Actuators



Linear Roller (LR) Series products provide a high level of accuracy, load-bearing strength and flexibility in a modular, low-cost package. These products utilize standard components and can adapt to a wide range of applications.

The modular design allows for easy assembly, fast engineering and a flexible platform capable of meeting even the most demanding application.

- Custom carriage options
- Easy mounting to AC motors
- Instant motor/gearbox approval
- Ideal for material handling, gantry systems, visual inspection, and assembly and transfer lines

For more information, visit www.parker.com/actuator.

Series	LR 6	LR 14	LR14HD	LR25
Max carriage load, N (lb)	649 (146)	2669 (600)	3350 (753)	11,552 (2597)
Max travel w/o splice (mm)	5900	5850	5840	5680
Min travel (mm)	300	250	240	80
Max drive torque, reversing unit 40 (Nm)	20	20	20	20
Max drive torque, reversing unit 80 (Nm)	37	37	37	37
Max speed (m/s)	5	5	5	5
Max acceleration at no load (m/s ²)	10	10	10	10
Repeatability (mm)	±0.10	±0.10	±0.10	±0.10



Controllers and Drives

Stand Alone and Bus-Based Controllers



Parker motion controllers are powerful multi-axis designs that have the processing power to coordinate multiple axes of motion. Parker controllers have advanced features

built in, such as kinematics transformation for the control of robots and other non-linear functions. Each Parker controller comes with free libraries for Visual Basic® and C++®.

For more information, visit www.parkermotion.com.

Servo Drives



Parker drives are digital designs that deliver a maximum amount of power output and performance in minimal package size.

These drives have industry leading power density and smart digital designs with features to ease integration and start-up.

Output power levels range from 50W - 20kW to match your application requirements. Control level is

also selectable between Drive only, Drive/Indexer and Drive/Controller depending on your application requirements.

Drive/Indexer and Drive/Controller versions can also be configured with Profibus, CANopen, and DeviceNet interfaces for seamless integration into any control system.

For more information, visit www.parkermotion.com.

Stepper Drives



Known for robust design and exceptional quality, Parker's microstepping drives offer high performance and value all in one package. Anti-resonant technology developed by Parker and high selectable resolutions (up to 128,000 steps/rev) allow for very smooth operation

at all speeds. Drive families are optimized to work with either VAC or VDC input power with output current ratings up to 12 Amps. Simple positional indexing or full blown motion control can also be achieved with drive/indexer and drive/controller options.

For more information, visit www.parkermotion.com.

Complementary Products

Motors, Gearheads & Interface



Servo & Stepper Motors



Parker offers a complete line of rotary and linear servo motor products designed to meet the demands of a broad range of applications in both the industrial and high tech marketplaces. With both ironcore and ironless technologies, Parker offers industry leading linear motor solutions that can achieve the highest performance and throughput

requirements. Parker's comprehensive line of rotary servo motors range from 40mm frame sizes up to 270mm.

Parker also offers an extensive line of rotary gearmotors, frameless kit motors, cost effective stepper motors, and customized solutions such as stainless steel, food grade motors.

For more information, visit www.parkermotion.com.

Precision Gearheads



Parker precision gearheads incorporate a helical planetary design resulting in higher torque output, quieter operation, and lower backlash. Standard inline and right angle gearheads are available with frame sizes ranging from 40mm to

300mm and nominal output torques up to 40,000 in-lbs. Custom gearhead solutions prepped for special environments such as cleanroom, vacuum, and washdown can be engineered to meet your application requirements.

For more information, visit www.parkermotion.com.

Operator Interface



Parker HMI incorporates Windows®-based software into rugged touchscreen computers to ease the development of the user interface without sacrificing the benefits of open architecture.

Parker HMI also incorporates multiple connection options to easily tie the machine into higher level IT/IS systems.

For more information, visit www.parkermotion.com.



Pneumatic Components

Pneumatic Cylinders



Parker pneumatic cylinders are engineered to meet ISO, NFPA and other standards, and they come in a variety of shapes (compact, round body and tie rod) and sizes (6-200 mm, 5/16" to 14" bores).

Whether you need to move a load fast or slow, in a straight line or through an arc, or even sense the load's position, Parker has a cylinder for your application.

Pneumatic guided cylinders are available in four unique designs with multiple configurations suitable for any application. Cylinder bore sizes range from 16 to 100 mm and are available in both metric and imperial designs.

Parker guided cylinders feature a patented alignment coupler which allows the piston rod to self-center providing millions of trouble-free cycles.

For more information, visit www.parker.com/actuator.

Rotary Actuators



Parker is the industry leader in Pneumatic Rotary Actuators with output torques from 1 to 10,000 in-lbs at 100 PSI. Configurations include rack and pinion and vane and are available in both metric and imperial designs.

Rotary actuators are suitable for lubricated and non-lubricated service and will produce millions of trouble-free cycles making them suitable for a wide range of pneumatic applications.

For more information, visit www.parker.com/actuator.

Grippers



Parker's grippers are designed to incorporate high grip force to weight ratio, making them ideal for end of arm tooling and high-speed applications.

Grippers are available in parallel, angular and three jaw configuration with grip forces to 3,000 lbs and feature single acting, double acting, spring assist or spring return options.

For more information, visit www.parker.com/actuator.

Vacuum Products



To complement its pneumatic product offerings, Parker has a complete line of vacuum generators and cups. Integrated sensors provide feedback for improved system response time. Additionally, emergency stop systems

hold parts during electrical power loss to prevent product/machine damage. Parker's space saving manifold systems and extensive cup availability provide unlimited automation solutions.

For more information, visit www.parker.com/pneumatics.

Complementary Products

Structural Framing



Industrial Profile Systems



Parker Industrial Profile Systems (IPS) structural automation products offer unique benefits over traditional methods of structural fabrication. All systems and assemblies are pre-engineered to customer requirements, yet offer extreme flexibility as needs change.

Profiles and accessories are available in metric or inch-based designs.



Benefits

- Extremely short turnaround time from design to completion
- No welding, grinding, cleaning, painting or distortions
- Lower cost through the elimination of costly traditional manufacturing processes
- Flexibility to reconfigure as requirements change

Fasteners and Accessories

- Unique T-slot design for reliable connection and easy modification
- Metric and Inchbased hardware available
- Complete line of accessories

Typical Applications

- Enclosures and guarding
- Machine bases and frames
- Work stations and tables
- Material handling systems

Profiles

Parker Industrial Profile Systems has one of the most comprehensive product offerings in the industry.

- More than 130 individual high-strength aluminum profiles
- Metric- and inch-based profiles and accessories
- Metric sizes range from 20 mm to 160 mm
- Inch sizes range from 1" to 6"
- Extensive range of smooth, grooveless profiles
- Provide attractive and robust structures



Linear Motion

- Roller bearing systems
- Extrusion-based linear actuators
- Delrin and UHMW slide bearings



For more information, visit www.parker.com/industrialprofile.