

Your Partner for High Performance Test Rig Products and Services

The ability to implement repeatable quality testing is a fundamental requirement for original equipment manufacturers of the latest generation test rigs. Parker Hannifin understands the real and direct correlation between performing quality testing and the motion control solutions utilised on a wide variety of demanding “test” machines. Armed with this understanding Parker has created a “full service” test rig engineering team.

Through close working partnerships, and over 40 years of experience Parker has gained a deep understanding of applications, and it is this knowledge which is used to develop even more competitive products and solutions for the test rig market globally.

Parker’s engineering team will assist you to make your machines:

- Deliver high quality test results consistently
- Operate to shortened test/cycle times
- Consume reduced power from the mains supply
- Easier to maintain and offer end-users years of trouble-free running

Why do test rig OEMs’ choose Parker? We offer:

- Cost effective, value engineered solutions to solve challenging problems
- Experienced engineering design resources to achieve solution objectives
- A complete portfolio of electromechanical, hydraulic, pneumatic and cooling solutions
- Fully validated solutions that simulate even the most extreme operational conditions

Parker’s complete control system services include:



Application support

- Engineering consultation
- Project management
- Control system design and build



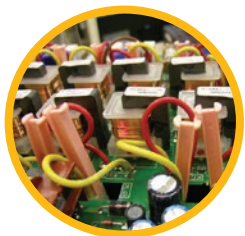
Installation and commissioning

- Electrical installation
- Commissioning and start-up
- Telephone support



Training

- Customer site training
- Parker site training
- On-line training



Spares/Repairs

- Product warranty
- Authorised repair centres
- Parker repair centre



High Performance Components for Automotive Test Rigs

Products and Services Overview

www.parker.com



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Your authorized Distributor



ENGINEERING YOUR SUCCESS.



Motor Control Drive Solutions

- Engineered Systems
 - Power up to 450 kW
 - Max. frequency up to 1500 Hz
 - Compact high power drives
 - Efficient energy consumption

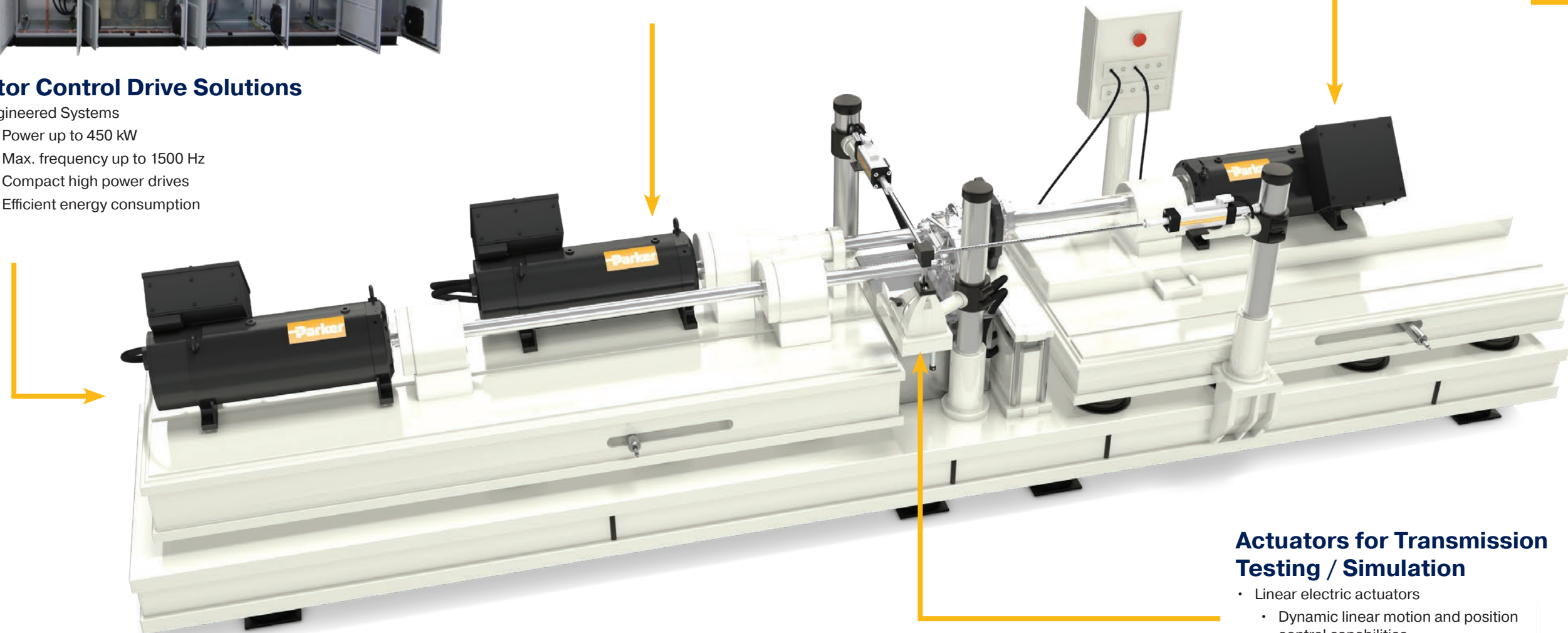
Motors for Durability Testing

- MGW high power density servo motor up to 500 kW
 - Eliminates additional gearboxes
 - Very low inertia
 - More than 45000 rpm
 - Suitable for acyclism testing



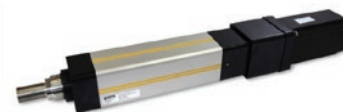
Motors for Load Simulation

- TMW high torque synchronous motors up to 22000 Nm
- GVM high power compact motors



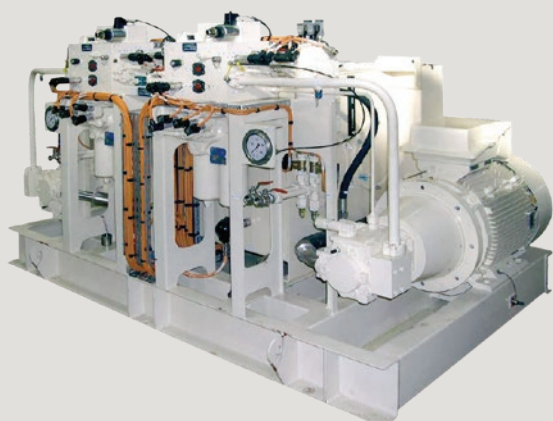
Actuators for Transmission Testing / Simulation

- Linear electric actuators
 - Dynamic linear motion and position control capabilities
 - High-thrust forces up to 12 tons
 - Long service life
 - Reduced noise emissions



Hydraulic Power Systems

- Provide maximum functionality with reduced engineering complexity
- Reduce costs through collaborative design
- Minimise end user down time and maintenance related costs



Precision Cooling Systems

- Offer cooling capacities: 1.7 to 230 kW
- Have a compact design for a space saving and ease of installation
- Incorporate condenser filters which reduce contaminants, thereby preventing system downtime



Experience in Test Rig Control

Aerospace and Automotive Experience

From concept, through design, build, installation, in fact for the complete lifecycle of your test system, Parker will work closely with you to create tailored technical and cost effective solutions. Access to the knowledge, experience and expertise of Parker's multi-control technology focused engineers allows you and your team to decide how much or how little support you need. Parkers' highly qualified and experienced team of designers, application and service engineers, will help take the risk out of your project's control solution by ensuring that all key milestones are managed and executed precisely to your requirements.

Parker Hannifin's Test Applications & systems Experience:

ICU Engine and Components Testing

- Qualification process
- Quality assurance and production
- Endurance
- Emissions & calibration
- High-end racing applications

Electric or Hybrid car / Hybrid Dynamometer

- Drive units
- Differentials

Electric or Hybrid car

- Bi-directional AC/DC converter
- Rapid charge/discharge

Powertrain Testing

- Gearbox - functional
- Complete powertrain system
- Endurance/durability
- Road load simulation

Complementary Intelligent Motion and Control

As a global leader in motion and control technologies, Parker Hannifin's wide range of motion and control solutions offer OEMs and end users flexibility and choice. Comprising motors, drives, controllers, actuators and more, this portfolio ensures you will find the right combination of products for your needs, however complex your application challenge.

Controllers



HMI Visualisation



High Power Drives



Servo Drives



Gearheads



Servo Motors



Rodless Actuator



Rod Actuators

