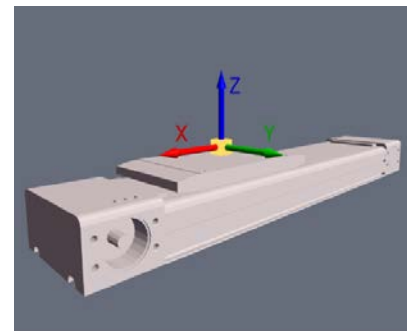




## Meet Your Virtual Engineer

Online sizing and selection tool to simplify collaboration, reduce design time and ensure optimal solutions.

[www.parker.com/virtualengineer](http://www.parker.com/virtualengineer)



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# Collaborate on a Whole New Level

**Virtual Engineer** is a new tool where users can easily enter application specifications (ex. speed, load, external forces) and quickly navigate to accurately sized product options.

Features include: Product life estimation, “Compare” function for multiple products (including price), CAD model availability, and a “My Projects” area, allowing engineers to create, save, and share projects to revisit at a later time.

After completing specifications, Virtual Engineer will clearly display the differences between the most suitable products, and this information can be submitted to Parker for a price quote.

With the ability to connect directly with Parker motion control experts, Virtual Engineer takes collaboration to a whole new level, and by doing so, helps to increase efficiency of your own valuable engineering resources.

## STEP 1 Intuitive Graphical Interface

Enter your application details in the easy-to-use interface with visual guides for load position, orientation relative to gravity and external forces

The screenshot displays the 'ORIENTATION' and 'MOTION PROFILE: SEGMENT 1' sections of the software. The orientation section includes a 3D model of a linear actuator with X, Y, and Z axes, and buttons for 'Initial', 'X-Y View', 'Y-Z View', 'X-Z View', and 'RESET ORIENTATION'. The motion profile section includes input fields for 'Pushed Mass' (0 kg), 'Pushed Mass Friction Coefficient' (0.16), 'External Force' (X: 0, Y: 0, Z: 0 N), and 'Contact Point' (X: 0, Y: 0, Z: 0 mm). Below these are sliders for 'Roll', 'Pitch', and 'Rotate View', each with a range from -180° to 180°. A 'CALCULATED VALUES' table is also visible.

	CALCULATED VALUES	
Max Travel	100.0000	mm
Max Velocity	0.0750	m/s
Max Acceleration	0.1125	m/s <sup>2</sup>
Max Payload	15.0000	kg
Max Axial Load	16.9110	N
Thrust Peak	16.9110	N

Virtual Engineer uses the application details and passes through hundreds of formulas in the background, utilizing over 1,000,000 variables

Enter application details and Virtual Engineer runs hundreds of millions of difficult calculations in the background, utilizing over a million product specific data points. After completing a dynamic simulation and analysis of Parker’s products performing in your application, a list of products that meet your criteria is presented.

The image shows three product cards from the Virtual Engineer interface. Each card features a 3D model of a linear actuator, a price indicator (e.g., \$\$\$\$), an 'Include in Compare' checkbox, and a 'PRODUCT INFO' button.

# STEP 2 Product Comparison

Make your final product selections, configure part numbers and download CAD files in a matter of minutes

**Compare Linear Actuators**

**CALCULATED VALUES**

Max Travel	20 mm	Max Velocity	0.02 m/s	Max Acceleration	0.07 m/s <sup>2</sup>	Max Payload	10 kg
RMS Thrust (Distance)	16,415 N	Peak Thrust	17,491 N				

**REPORT CRITERIA**

Thrust Capacity  Velocity Capacity  Drive Train Lead  Price   
 Normal Load Capacity  Acceleration Capacity  Travel

Display: 10 products

Sort based on what is important to you: velocity capacity, price, drive train lead, etc...

**Select Attributes**

SERIES: 404  
 TRAVEL: T04 - 250 mm Travel  
 STYLE: LXR - Linear Motor Table  
 MOUNTING: M - Metric Mounting  
 GRADE: P - Precision Grade  
 DRIVE TYPE: D3 - No Motor (Free Travel)

3D CAD models now available in multitudes of native formats for easy import into your system

# STEP 3 Design Collaboration & RFQ

Collaborate internally with your team and also externally with Parker via chat, email or system dashboard. Seamlessly save your project and submit your project for quotation.

**Parker**

PRODUCTS SUPPORT DIVISIONS WHERE TO BUY ABOUT PARKER

← BACK TO MY PROJECTS

**PROJECT: NEW PROJECT**

Last Activity: 12-14-2017  
(Description)

**ACTIONS**

Request a quote from the Parker Sales Team

RFQ/EST HELP REQUEST QUOTE SHARE PROJECT VIEW BOM

DELETE HELP

# About Parker Electromechanical & Drives Division

A division of Parker Hannifin Corporation's Motion Systems Group since 1987, Electromechanical Automation is a pioneer, developer and manufacturer of full-spectrum computer-based motion controllers, servo/step motor drives, servo motors and human-machine interfaces, positioning systems, gearheads and gear motors. These products automate the manufacturing of a significant fraction of the world's goods and services. Electromechanical Automation products are sold via independent authorized Automation Technology Centers—a group of nearly 100 professional, highly trained organizations with more than 135 points-of-presence throughout the world. An informative and up-to-date Web site with downloadable libraries, tutorials, and background information on motion control and automation is located at [www.parkermotion.com](http://www.parkermotion.com).

## Why Parker?

A Fortune 250 company with annual sales exceeding \$13 billion and more than 450,000 customers in 43 countries, Parker Hannifin is the world's leading supplier of innovative motion control components and system solutions serving the life science, OEM, industrial, mobile, and aerospace markets. We are the only manufacturer offering customers a choice of electromechanical, hydraulic, pneumatic, or computer controlled motion systems. By partnering with customers, Parker improves their productivity and profitability and seeks new ways to solve humanity's biggest challenges. For more information, visit the company's Web site at [www.parker.com/aboutus](http://www.parker.com/aboutus).



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