



**THOMSON™**

# Linear MOTIONEERING®

## Web-based sizing and selection tool for linear systems

Optimize your design, save time and compare multiple solutions to solve linear motion applications.  
Outputs include: 3D models, pricing, delivery times and ordering Information.

 **DANAHER**  
MOTION

*Helping you build a better machine, faster.*

## Linear MOTIONEERING®: Web-based sizing and selection tool for linear systems

Danaher Motion is very proud to introduce Linear MOTIONEERING, a new way to optimize your machine design, save time and, ultimately, help you build a better machine, faster.

Easy to use and free, it's at <http://www.danahermotion.com/linearmotioneering>. Enter application parameters in five simple steps. Application needs are filtered through a comprehensive set of calculations such as linear bearing load/life, ballscrew load/life, and ballscrew critical speed. Revealed is a selection of products tailored precisely to your application requirements.

And, it's easy to select system accessories and motor mounts. Outputs include interactive 3D models, pricing, delivery times, and ordering information for our Thomson and IDC brand linear units. Included are the following product families: 2DB, 2EB, 2HB, 2HE, 2RB, 2RE, MF, MG, MS, TF, TG, DS and URS.

### Sizing and selection based on real world application specifications

Linear MOTIONEERING requires only that the user input key parameters of the application: mounting configuration, positioning requirements, environmental conditions, loading conditions and move requirements.

- Calculates safety factors for the linear bearings and ball screw.
- Calculates both bending and torsional deflection of the base and linear bearing structure for end-supported configurations.
- Considers accuracy, repeatability and backlash to satisfy your positioning requirements.

### Environmental Conditions Evaluated

Environmental conditions of an application are critical in determining the correct material selection, cover strategy and lubrication scheme. Too often these are overlooked. Linear MOTIONEERING analyzes environmental factors and protects you from unpleasant surprises.

- Material options range from standard coating processes for clean environments to corrosion protection for caustic environments.
- Position and magnitude of the load (payload or an applied force) are used to evaluate component life requirements. And, safety factors are displayed in the solution.
- A user friendly graphical depiction of the acceleration limits enables the user to adjust the move profile according to the move requirements.



Your System Mounting Orientation is stored in the database to allow bearing and ball screw safety factor calculations.



Selecting your Environmental Condition enables various material, cover and lubrication options.

### Fast, easy and smart

- Calculations are processed in the background as you walk through 5 application screens.
- The output is a solution set that satisfies your application parameters. Solutions are sorted by price. Displayed are safety factors for linear bearing life, critical speed and column loading. A printable summary page enables convenient modification to the input data.
- 3D CAD models of your unique solution are available for download in neutral file formats or native CAD files for all major CAD software packages (20+ formats available)
- Product options such as motor mounts, limit switches, feedback options and load holding brakes are available. A smart part number makes ordering easy. Delivery information and email quotes are right there, too.

### Also, configure a system based on system type or from a existing part number

- Linear MOTIONEERING provides 3 different modes of functionality. The **Sizing and Selection** module is the all encompassing process that accepts application information and delivers a range of suitable products along with commercial and technical collateral to support the product selection.
- **Configure Your Solution** is for people who are familiar with Danaher Motion products and want to quickly configure a part number. A few simple steps are all that's required for product selection. The output is a solution with all the deliverables associated with the Sizing and Selection module.
- **Lookup by Part Number** allows you to confirm current pricing and part number configuration. This is a quick check for repeat customers and Danaher Motion distribution partners to verify part number integrity and current pricing.

### Engineer your next system in five minutes.

The tool is easy to use, free and just a few clicks away at <http://www.danahermotion.com/linearmotioneering>. Never worry about selecting the right linear system again.



Linear Motioneering delivers interactive 3D models of your specific product selection.



A single Part number and pricing are developed as you configure your base system and accessories.

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