

Linear Motion Designer 3.1

Quick Start

1 Description

With the design calculation program “Linear Motion Designer (LMD)” Bosch Rexroth is offering a tool for easy dimensioning of Profiled rail systems, Linear bushings and Screw assemblies. The software covers the complete range of Bosch Rexroth roller-, ball- and miniature rail systems, ball screw- and planetary screw assemblies as well as the linear bushings.

The specialist in linear motion technology has produced a user-friendly software solution that satisfies all requirements of practical project planning and offers engineers unique opportunities to select and dimension the linear motion components themselves.

- Optimal dimensioning of all Rexroth Profiled rail systems, Linear bushings and Screw drives, considering safety aspects
- Time savings through intuitive user guidance as well as integrated digital engineering and supply chain
- Simplified engineering process from the selection of components, via configurable CAD file to ordering in the eShop
- Continuous development and automatic update function

2 Different variations

LMD include various possible applications for guidance systems:

Variations for guidance systems

Number of guide rails / number of shafts	1	1	2	2	2	2
Number of runner blocks / number of linear bushings	1	2	2	4	6	8

3 Further advantages

- LMD also produces a visualization of calculated configuration
- It is possible to dimension a Profiled rail system and a Screw assembly in one calculation
- 3-axis applications may be calculated conveniently and flexibly by entering transverse acceleration rates
- Between the various guide combinations a change is possible at any time
- Lubrication recommendation for lubrication interval and lubrication quantity for linear guides and screw drives
- Integrated deflection calculation at profiled rail systems
- Input of the dynamic values via classic dynamic cycle, part of time, percentage of stroke and pre-defined dynamic cycles
- Selection guide for a preferred carriage for customer application
- Easier selection of bushings by specifying the required application criteria
- Selection of an existing bearing unit for screw drives
- Integrated calculation guide for linear technology components
- The program is available in following languages: German, English, French, Spanish, Chinese and Chinese traditional

4 Reference

Before using the software the following training is recommended by the Drive & Control Academy: "[LTSY - Design of profiled rail systems and ball screw assemblies](#)"

5 Contact

E-Mail address for overall questions:

Technical_LT-Support@boschrexroth.de

E-Mail address for registration on trainings

training@boschrexroth.de

LMD-Download File

www.boschrexroth.com/lmd