

Linear units



Compared to time consuming and cost intensive designs with single components like ball screw, support units and slide guides, the pre-assembled MISUMI KUH / KUA unit is a simple solution. The linear unit is available with SVR type slide guides for medium load up to 16,8kN (Co) and SXR type slide guides for heavy load up to 43,5kN (Co).

MISUMI LX Single Axis Actuators with ball screws are suitable as “ready-to-built in” modules for many different tasks like measurement units or servo press machines. Thanks to their compact construction, LX actuators can be easily integrated into applications with limited space. The variety of configurations (greases, with/without motor bracket, with/without cover etc.) enable a wide range of applications.

The highlights in short

- High rigidity, high precision and compact design
- Compatible with a wide range of motors, short lead time compared to the competitors

Due to the high-rigid extruded profiles in combination with high precision ball screws, the LX units guarantee smooth and high precision operation. The repeatability is $\pm 5\mu\text{m}$ (precision grade $\pm 3\mu\text{m}$). An inspection record is enclosed with each precision grade unit.

Selectable are high lead types for fast operation and grease for clean rooms (low dust raise). MISUMI provides motor adapter plates in accordance to NEMA. They are available for various brands like Mitsubishi Electric, Oriental Motor and SIEMENS and thus the LX units are easy to use and adapt.

Available types



- Standard type with motor bracket

<http://www.misumi-europe.com/en/e-catalog/vona2/result?Keyword=LX2001>



- Standard type without motor bracket

<http://www.misumi-europe.com/en/e-catalog/vona2/result?Keyword=LX20>

Linear units



- Cover type with motor bracket

<http://www.misumi-europe.com/en/e-catalog/vona2/result/?Keyword=lx2001c>



- Cover type without motor bracket

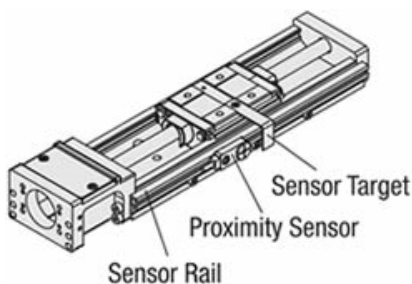
<http://www.misumi-europe.com/en/e-catalog/vona2/result/?Keyword=lx2001c>



- For parallel motor mount (incl. side mount bracket , pulley and cover)

<http://www.misumi-europe.com/en/e-catalog/vona2/result/?Keyword=lx30>

Sensor Sets



Sensor Sets are available for the LX units. It is possible to select between proximity or photo sensors. Usually, 1 to 3 sensors can be selected and are freely adjustable during assembly.

- LX2605CPG-B1-F-350-FA2 (FA2 = 2 proximity sensors including sensor rail, screws and sensor flag)

Grease

The LX units are filled with following greases by default:

- LX15, LX20, LX26 => Alvania Grease S Nr.2 made by Showa Shell Sekiyu
- LX30 & LX45 => Cartridge Grease EP2 made by Showa Shell Sekiyu

Details can be found here: http://uk.misumi-ec.com/pdf/fa/p1_0403.pdf

Linear units

Calculation Software

MISUMI provides a helpful tool to calculate the product lifespan:

[↗ http://fawos.misumi.jp/FA_WEB/unit/web/misumi_LX_en.html#page0](http://fawos.misumi.jp/FA_WEB/unit/web/misumi_LX_en.html#page0)

The calculation tool also incorporates operation and mounting conditions. This prevents mistakes and reduces the workload during the planning phase.

Hints about configuration

- LX2001 – The standard type without cover but with motor bracket
- LX2001C – The “C” adds the cover
- LX2001P / LX2001CP - A precision class is available for nearly all types. It is configured by the letter “P”
- LX2001G / LX2001PG / LX2001CPG The letter G replaces the standard grease with “low particulate grease” => NSK LG2
- LX2001-B1-F... / LX2001CPG-B1-F... The letter “F” in the product codes - instead of a motor adapter plate - removes the motor bracket