

Compact and economical linear modules from Bosch Rexroth



SMALL HANDLING LINEAR MOTION – LOWER COST, SHORT LEAD TIMES, AND A QUALITY PRODUCT

SHL Linear Module

Our successful and diversified linear module line-up just got a little bigger. The SHL lead screw driven module is designed for those light load, low-cost applications. Made with a 55 mm wide aluminum frame, the SHL is precise and compact. The SHL module includes the motor, controller, and encoder, with the option to also add the I/O port and E-stop port to completely automate the process. From college projects to Industrial Automation to Biomedical applications and everything in between, the SHL is a great addition to the Bosch Rexroth Linear Module product offering.

SHB Linear Module

Adding onto our belt-driven linear module product offering is this compact, yet robust SHB linear module. With stroke lengths up to 2 meters and load capacities up to 110 lbs., the SHB is hard to overlook. Just like the SHL, you can get this module with the motor and controller attached to the linear module, along with I/O and E-stop ports for an automated workflow. Alternatively, the module is available as a standalone unit if you prefer to handle the electronics yourself. At only 40 mm wide, it's compact and precise with a repeatability of < 20 microns. It can also handle speeds of up to 3 m/s! The SHB is a great addition to our belt-driven linear module product offering.

ADVANTAGES

- Lead times:
 - In stock: 2-3 days
 - Out of stock: 2-3 weeks
- Low Cost
- 24-48 Volts range
- Motor and Controller on board with the linear modules
- Hooks up to a laptop via USB

KEY TECHNICAL DATA

SHL:

- Strokes from 50 – 200 mm
- Max. centered load capacity up to 30 N (6.7 lb)
- Max. offset load capacity up to 50 N-cm
- Lead screw driven

SHB:

- Strokes from 100 – 2000 mm
- Max. centered load capacity up to 500 N (112 lb)
- Max. offset load capacity up to 5 N-m
- Belt Driven

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Further information:
www.boschrexroth-us.com/linear-motion

General notes

- Vertical Installation
The drive is not self-locking, so in vertical use a load may cause movement. Vertical use is only recommended for cases where the load falling is acceptable, safe, and will not cause damage. Vertical use will exert additional force on the drive components, and may limit service life.

Intended use

- The product is intended exclusively for use moving and positioning loads.
- The product is intended exclusively for professional use and not for private use.
- It's intended that users read and understand all documentation to the product before operation.

Misuse

- Use of the product in any other way than as described under "Intended use" is considered to be misuse and is not permitted. If products are installed or used in unsuitable safety-relevant applications, this misuse may lead to personal injury and/or damage to property.
- The product may only be used in safety-relevant applications if this use has been expressly specified and permitted in the product documentation.
- The product is not intended for users to service. Any unauthorized disassembly of the product is misuse and voids any warranty.
- Operating in an environment that is unsuitable for the product is misuse. Unsuitable operating environments include (but are not limited to):
 - wet environments
 - high-humidity environments
 - extreme high or low temperatures
 - extreme high or low pressures
 - radiation
 - corrosive environments
 - in proximity to strong magnets
- Bosch Rexroth AG will not accept any liability for injury or damage caused by misuse of the product. The risks associated with any misuse of the product shall be borne by the user alone.
- Misuse of the product includes:
 - transporting people
 - use in medical devices or applications

General safety instructions

- Safety rules and regulations of the country in which the product is used must be complied with.
- All current and applicable accident prevention and environmental regulations must be adhered to.
- The product may only be used when it is in technically perfect condition.
- The technical data stated in the product documentation must be complied with.
- The product must not be put into service until it has been verified that the final product (e.g. a machine or system containing product) installation complies with the country-specific requirements, safety regulations and standards for the application.
- Pinch prevention and labeling are recommended.
- Motors can generate heat, and access to them should be limited during operation.
- At high travel speeds a certain amount of noise is caused by the product. If necessary, appropriate measures should be taken to protect hearing.
- Special safety requirements for specific sectors (e.g. foodstuffs, chemicals, semiconductor processing) as provided for in laws, directives, and standards must be complied with.