**HIWIN Linear Motor Stage**

- Built in the USA for quick delivery
- Powerful motor with high force, acceleration and velocity
- μm accuracy with magnetic and optical encoder options
- Stroke length up to 3700mm with many sizes and configurations
- Proven HIWIN components including the Q series linear guideway with SynchMotion™

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**HIMC Multi-Axis Motion Controller & E1 Series Servo Drives**

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**HIMC Motion Controller:**
- 16 fully synchronized axes
- Up to 256axis controller cycle time
- 10/100/1000 Mbps Ethernet with TCP/IP host communication
- Multi-tasking HiWIN programming language with maximum 64 user tasks
- Programming library for C/C++/LabVIEW/Python
- All mega-6lk 2.0 compatible drives and I/O modules supported

**E1 Series Drives:**
- 3.2kHz speed response
- Inertia ratio up to 2501
- Advanced auto-tune function
- Ripple compensation
- Linear and Taw control for gantry applications (when 2 or more drives used)
- Network connectivity
- Built-in Safe Torque Off (STO)
- Linear motors, direct drive (torque) motors, and servo motors supported
- Digital, Analog, Tamagawa, EnDat and BiSS-C encoders supported

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**Ordering Info**

- For custom configurations contact HIWIN for details and specifications

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**LMXK: Linear Motor Stage**

- Many configuration styles, gantries, and lengths available
- Built in the USA for quick delivery
- Powerful motor with high force, acceleration and velocity
- μm accuracy with magnetic and optical encoder options
- Stroke length up to 3700mm with many sizes and configurations
- Proven HIWIN components including the Q series linear guideway with SynchMotion™

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**www.hiwin.com | (2405 Jim Dhamer Drive | Huntley, IL 60142 | info@hiwin.com | (877) 804-4946**

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ALUMINUM COVER
An optional lightweight aluminum cover helps prevent unwanted debris from falling in the path of the slider. The cover also reduces the ingress of large pieces of ferromagnetic material which may be attracted to the stator magnets.

HIWIN linear motors are direct drive, plug and play solutions that are capable of fast accelerations and high speeds, while providing unmatched precision and accuracy.

The LMXK linear motor system is a high quality, quick delivery solution with features, lengths and power options to fit any need. Multiple single axis linear motors can be combined to form cross tables, cantilever or gantry systems built to your requirements.

LOW MAINTENANCE OPERATION
Driven by electromagnetic force, the LMXK linear motor has low maintenance mechanical wear components. This leads to lower cost of ownership by eliminating downtime and MRO expense replacing belts, screws, gearboxes, or other mechanical drive components.

CABLE CHAIN
Optional horizontal and vertical orientations of the cable chain are available in multiple sizes. Custom options available.

ALUMINUM CARRIAGE PLATE
The high strength aluminum carriage plate is lightweight, allowing higher payloads for each motor size.

E2 LUBRICATION KIT
The optional E2 self-lubricating linear guideway kit with replaceable/refillable oil cartridge extends time between maintenance cycles and ensures long service life. Lubrication flows from the kit cartridge to the lubricator and coats the grooves of the rail and crossover with an effective capillary action process.

LIMIT SWITCHES
Optional optical limit switches with either PNP or NPN transistors. These limit switches can be used for homing or to prevent overtravel. Two limit switches provided per stage.

IRONCORE LINEAR MOTOR
The LMXK is powered by a high-force synchronous ironcore motor providing high thrust density and low stepping lower. Three motor sizes are available to fit a variety of demands and duty cycles.

OPTICAL LIMIT SWITCHES
Optional optical limit switches with either PNP or NPN transistors. These limit switches can be used for homing or to prevent overtravel. Two limit switches provided per stage.

Q SERIES LINEAR GUIDEWAY
The Q Series linear guideway with SynchMotion™ Technology has four-row circular-arc contact, smooth movement, superior lubrication, quieter operation, and longer running life. This allows for a broad industrial application and is perfect for linear motors, where high speed, low noise, and reduced dust generation is required.

Magnetic Encoder
- The PG system integrates a linear guideway with a magnetic encoder. The solution offers rigidity while obtaining high precision. The encoder is a non-contact measuring sensor with the magnetic strip embedded into the guideway to prevent possible damage caused from external materials.

Optical Encoder
- An optical encoder gives LMXK the highest accuracy possible. The standard offering is a 4x digital incremental encoder. Other resolutions available upon request.

Hall Effect Encoder
- The Hall Effect Encoder utilizes the permanent magnets of the stators as a positioning scale. The Hall Effect Encoder reads the pitch of the magnets and interpretes the signal into an accurate position measurement. Having the stators double as a positioning scale reduces complexity and cost.

LIMIT SWITCHES
- Optional optical limit switches with either PNP or NPN transistors. These limit switches can be used for homing or to prevent overtravel. Two limit switches provided per stage.

SINGLE AXIS LINEAR MOTORS
- Multiple single axis linear motors can be combined to form cross tables, cantilever or gantry systems built to your requirements.

Q SERIES LINEAR GUIDEWAY
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HARDENED STEEL CARRIAGE PLATE
- The high strength steel carriage plate is lightweight, allowing higher payloads for each motor size.

SINGLE AXLE LINEAR MOTORS
- Multiple single axis linear motors can be combined to form cross tables, cantilever or gantry systems built to your requirements.

ALUMINUM COVER
- An optional lightweight aluminum cover helps prevent unwanted debris from falling in the path of the slider. The cover also reduces the ingress of large pieces of ferromagnetic material which may be attracted to the stator magnets.

HARDWARE
- HIWIN linear motors are direct drive, plug and play solutions that are capable of fast accelerations and high speeds, while providing unmatched precision and accuracy.

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HIWIN offers a variety of linear motor products with standardized or custom designs, contact us to find out how a linear motor system can help your business.