

Product Directory

Ballscrews



Linear Guideway

Industrial Robot



Precision Bearing

Linear Actuator

Linear Motor



AC servo Motor & Drive

Integration Products

High Speed
High Precision
Ecology First
Multifunctional Integration
Humanistic Technology

Industrial Robot - Multi Axis Robot



△ Articulated Robot RA605

- A compact and agile 6-axis jointed-arm robot for precise assembly, part transfer and workpiece loading/unloading.
- Applications include: pick-and-place, handling, assembly, deburring, grinding and polishing.



△ Electric Gripper

- Uses the closed-loop control of a stepper motor combined with an encoder.
- The gripping transmission is a single axis robot that utilizes a ballscrew.
- Adjustable gripping force, position, velocity and acceleration.
- The gripper's compact size offers high speed, accuracy, stiffness and efficiency.



△ SCARA Robot RS406

- SCARA [Selective Compliance Assembly Robot Arm]
- SCARA provides an excellent solution for rapid motion in the horizontal plane for pick and place and assembly applications. Widely used in the plastic, automobile, electronic pharmaceutical and food industries.



△ Wafer Robot

- Customized design to meet limited space, besides, HIWIN key components are used to keep high stability and repeatability.
- Applications include automatic wafer transfer and positioning.



△ Delta Robot RD401, Delta Robot RD403, Movable Delta Robot RK401

- A 4-axis parallel robot utilizing a parallel linkage mechanism to perform extremely high speed motions with stability and high accuracy.
- Applications include: pick-and-place, assembly, alignment and packaging.

Industrial Robot - Single Axis Robot



Δ KK Series

The KK single axis robot modularizes both ballscrew and guideway to achieve better performance on accuracy and stiffness while providing a space saving construction and easy installation.

The KK block is driven by the ballscrew while sliding on the optimized U-rail to obtain greater stiffness and higher accuracy.



Δ SK Series

The quiet single axis robot with SynchMotion™ Technology offers quieter operation, smooth movement, low particle emitting rate, longer service life and superior lubrication.

With the SynchMotion™ Technology, SK single axis robot will be more suitable for industries which need higher speed and quieter performance.



Δ KA Series

The KA single axis robot is actuated by a motor-driven ballscrew and guided by a linear guideway. The stage base is made from aluminum allowing for a lightweight design. It is commonly used in semiconductor and automation industrial applications.



Δ KU Series

- High accuracy, high efficiency, high reliability
- High dust-proof performance
- Lightweight
- Easy system installation and maintenance



Δ KS Series

The KS single axis robot is one of the newest motor-driven ballscrew modules equipped with a dust-proof strip to prevent any wear particles from exiting the robot. The dust-proof design allows this type of linear stage to be the most suitable product in the manufacturing of semiconductor equipment, LED examination equipment, medical equipment, etc.



Δ KE Series

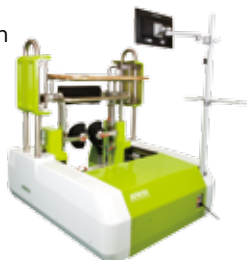
- High accuracy, high efficiency, high reliability
- Closed design
- Compact and lightweight
- MG guideway used for anti-corrosion

Medical Equipment (ISO13485)



Δ Robotic Gait Training System

- Provides automatic therapy
- Length-adjustable exoskeleton
- Mimics human walking
- User friendly interface
- Offers multiple color options



Δ Robotic Endoscope Holder

The robot focuses on controlling the position and angle (3-degrees of freedom) of the surgical instruments used during minimally invasive surgery (MIS). It's unique structure (remote center of motion) allows the robot to steadily hold surgical instruments in the desired positions during surgery.



Ballscrews



△ Super S series

- Low noise
(5~7 dB lower than external recirculation series)
- Space-saving and lightweight design
- Dm-N value up to 220,000
- High acceleration and deceleration
- Accuracy grade:
Precision ground ballscrews available in JIS Grade C0~C7
Rolled ballscrews available in JIS Grade C6~C10



△ Heavy load ballscrews-RD series

- Heavy Load:
 - A. The load capacity is up to 2~3 times
 - B. High acceleration
 - C. Special lubrication design for short stroke
- Accuracy grade : JIS Grade C7
- High speed operation and longer product life-cycle
- Recirculation divide
- Dm-N value is up to 160,000



△ The dust-proof ballscrews

- SS(Scrape wiper)
Extends out from the end face of the ball nut, the flexible fingers are pressed by a spring to eliminate the gap between the wiper and the shaft surface thereby improving the dust-proof ability.
- SH (Felt + Scrape Wiper)
Finger wiper and a high dense felt prevents powdery dust from entering the ball nut.
- EW
EW is designed for standard DIN ball nuts used on rolled ballscrews.



△ Super T series

- Low noise
(3~5 dB lower than external recirculation series)
- Low vibration and smooth operation



△ Rotating nut ballscrews - R1 series

- Nut and support bearing are integrated unit
- Compact and high positioning accuracy
- Simple installation
- Rapid feed - Higher stiffness - Low noise



△ Cool Type I-extra high Dm-N value ballscrews

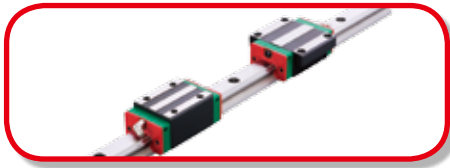
- Optimized design for high reliability
- Prevents thermal distortion
- Strengthen durability
- Extends lubrication life cycle
- Keeps temperature constant and reduces warm-up time



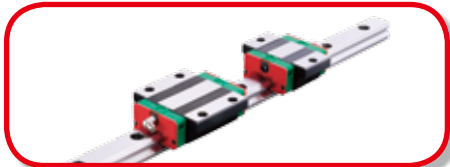
△ E2 self-lubricant

- Economical
- Easy and longer maintenance cycle
- Ideal lubrication position
- Effortless and flexible installation
- Clean and environmental friendly
- Interchangeable oil selection
- Applications for special environments: dusty or wet environments

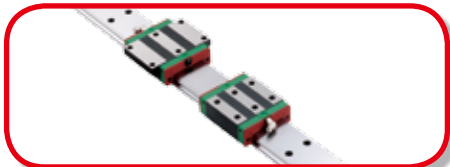
Linear Guideway



- △ HG Series** (Heavy Load Ball Type Linear Guideway)
- Self-aligning capability to absorb installation-error
 - High rigidity in all four directions



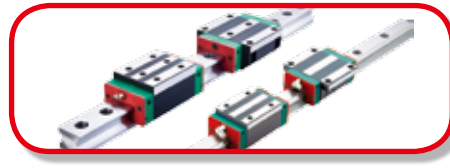
- △ EG Series** (Low Profile Ball Type Linear Guideway)
- Self-aligning capability to absorb installation-error
 - Suitable for high-speed automatic machines



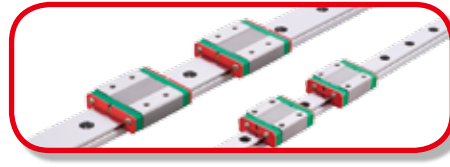
- △ WE Series** (Four-Row Wide Rail Linear Guideway)
- High loads, and rigidity
 - Ideal for space limitations, high moment rating requirements, and single axis applications



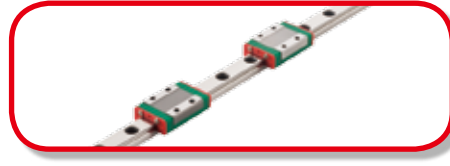
- △ RG Series** (High Rigidity Roller Type Linear Guideway)
- The linear contact of Rolling element, rail, and block, enables the rolling element only have slightly elastic deformation under the heavy load. High rigidity can raise the manufacturing precision, and fulfill the high accuracy requirement. Besides, the characteristic of heavy load can extend the service life of linear guideway.



- △ QH/QE/QW/QR** (Quiet Linear Guideway with SynchMotion™ Technology)
- Low noise design, smooth movement, superior lubrication and long product life cycle



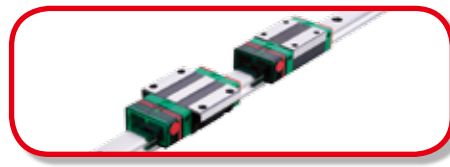
- △ MG Series** (Miniature Linear Guideway)
- MGN Series: Anti-corrosion prevention, compact size
 - MGW Series: Anti-corrosion prevention, wide rail
 - High stiffness against moment loads



- △ PM Series** (Miniature Linear Guideway)
- Integrated design, the recirculation part is made of resin
 - Smoother motion performance
 - Small and lightweight, suitable for miniaturized machine



- △ SE Type** (Metallic End Cap Linear Guideway)
- Excellent temperature resistance temperatures under 150°C with temperature spikes up to 200°C

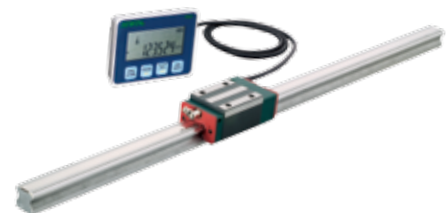


- △ E2 Series** (Self-Lubricant Linear Guideway)
- Cost savings by reducing oil usage and maintenance

Positioning Guideway

Integrating the linear guideway with a magnetic encoder

- The linear guideway provides high stiffness while the magnetic encoder provides high precision.
- The sensor and magnetic strip are embedded to prevent possible damage caused from external factors.
- Non-contact measuring sensor: ensures a long lifetime.
- Long distance measurement (magnetic strip up to 30m)
- Insusceptible to harsh environmental factors; such as water, oil, dust, vibration, and heat.



Precision Bearing



△ Linear Bearings

- European and Japanese specifications
- Shaft diameter ranging from 6 mm to 50 mm
- Standard Closed Type, Clearance Adjustable Type, Open Type, Lengthened Type (in Japanese Spec.), Flange Type (in Japanese Spec.), and customized designs



△ Crossed Roller Bearings

- Patented high rigidity and high load capacity
- Higher Accuracy than the ISO standard
- Space saving construction
- Support combination of both radial and thrust loads
- Easy installation - Multiple specifications



△ Ballscrew Bearings

- Smooth rotation - Space saving
- Easy installation and adjustment
- Can be supplied with Hiwin ballscrews for a total solution



△ Support Units

- Standard type and High capacity type
- Matched with high accuracy, high stiffness angular contact ball bearings
- Black Oxide surface coating
- Easy installation and adjustment
- Various Support unit types and dimensions to meet customer requirements
- Can be assembled with Hiwin Ballscrews for a total solution

AC servo Motor & Drive

Features:

- High Reliability - High Speed, High Torque
- High Efficiency - Low Heat Generation

Model Type:

50W, 100W, 200W, 400W, 750W, 1KW

Applications:

- Automation - Semiconductor
- FPD industry



Linear Actuator

△ LAN3A

- Max. thrust/pull: 5000N~12000N
- Max. speed: 5~18 mm/sec
- Standard stroke: 100~500 mm
- Protection: IP54/IP66 - Screw type: ACME
- Control:
 1. Built-in limit switches
 2. Potentiometer 10k ohm
 3. Mechanical quick release
 4. Safety Nut
 5. Mechanical spline

△ LAC1

- Max. thrust/pull: 500N~2000N
- Max. speed: 8~16 mm/sec
- Standard stroke: 300~500 mm
- Protection: IP54 - Screw type: ACME
- Control: 1. Hall sensor 2. Potentiometer

△ Other available types :

LAI, LAM, LAS, LAN Series

△ LAN5

- Max. thrust/pull: 3000N~8000N
- Max. speed: 3~17 mm/sec
- Standard stroke: 100~300 mm
- Protection: IP54/IP66 - Screw type: ACME
- Control: 1. Built-in limit switches
- 2. Position feedback hall sensor

△ LAK2J

- Portable design (operated by battery)
- Controls 1 to 2 Linear Actuators
- Emergency stop button
- Front panel access for emergency operation
- Over load protection
- Soft- start / stop - Automatic Energy Saving Mode
- Automatic alarm when the battery is low
- LED for power indication - Customized software
- Protection: IP54/IP66



Positioning Measurement System

- Easy installation: installation method is similar to that of the stainless steel strip used on the positioning linear guideway; the gap between the head and the scale is 0.1~2.0mm.
- Compact size
- Non-contact measurement system: ensures a long lifetime.
- Insusceptible to water, oil, dust, and other harsh environmental factors.
- Scale length up to 30m
- 1µm resolution with speeds of up to 10m/min
- Repeatability within ±1µm



Torque Motor Direct Drive Motor

Features:

- Drive free of clearance
- No gear transmission losses
- High torque
- Brush-free drive
- Hollow shaft
- Maintenance free and compact
- Extremely dynamic
- Encoder or Resolver

Applications:

- Production equipment
- Assembly machines
- Machine tools
- Inspection/testing equipment
- Robots



Linear Motor

△ LMS Linear Motor

- Large thrust
- High acceleration
- Repeatability within 1µm

△ LMC Linear Motor

- Smooth movement
- Dynamic motion
- Repeatability within 1µm

△ Planar Motor

- Air bearing, free of wear
- Closed loop servo control
- Very low heat generation
- Upside down mounted

△ Drives

- Accuracy enhancement
- Vibration suppression filter
- Pulse interface (STEP/DIR, CW/CCW)

△ Motion Controller

- Pulse output
- Encoder counter
- PCI bus interface

△ Products

LMS, LMC, LMT, LMSP, LMAP, TMS, TMX, LMF, PCI-4P



Multi-axis Linear Motor Positioning System

Features:

- Customized design
- The deviation in synchronization movement < 5µm
- Total system can have up to 18 axes
- Best positioning feedback system resolution 50nm
- Max. Velocity 5 m/s
- Max. Acceleration 3.5G

Applications:

- Automation Pick and Place
- Solar Energy equipment
- PCB/ AOI equipment
- Water Jet
- Laser Scanning and Cutting equipment
- Machine Tool



I am interested in learning your products. Please send me more information on the items I have checked.

Ballscrews	<input checked="" type="checkbox"/> Technical Info	<input type="checkbox"/> English	<input type="checkbox"/> 日本語	<input type="checkbox"/> 中文
Linear Guideway	<input checked="" type="checkbox"/> Technical Info	<input type="checkbox"/> English	<input type="checkbox"/> 日本語	<input type="checkbox"/> 中文
Precision Bearing	<input checked="" type="checkbox"/> Technical Info	<input type="checkbox"/> English	<input type="checkbox"/> 日本語	<input type="checkbox"/> 中文
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Industrial Robot-Multi Axis Robot	<input checked="" type="checkbox"/> Technical Info	<input type="checkbox"/> English	<input type="checkbox"/> 日本語	<input type="checkbox"/> 中文
Medical Equipment	<input checked="" type="checkbox"/> Technical Info	<input type="checkbox"/> English	<input type="checkbox"/> 日本語	<input type="checkbox"/> 中文
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AC servo Motor & Drive	<input checked="" type="checkbox"/> Technical Info	<input type="checkbox"/> English	<input type="checkbox"/> 日本語	<input type="checkbox"/> 中文

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Other requirements:



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