## Product Directory

### Integration Products

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
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<td>- Precision and reliability, with high performance in precision applications.</td>
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<td>- High load capacity and speed, with low friction and wear.</td>
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<td>- Smooth and precise motion, with high accuracy and stability.</td>
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### Motion Control and System Technology

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<td><strong>High Speed</strong></td>
<td>- Fast and efficient motion control, with minimal delay and response time.</td>
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<td><strong>High Precision</strong></td>
<td>- Accurate and repeatable motion, with high resolution and precision.</td>
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<td><strong>Ecology First</strong></td>
<td>- Environmentally friendly design, with reduced energy consumption.</td>
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### Delta Robot RD401

- **Description:** Delta Robot RD401 offers high precision and speed, with adjustable load capacity and feedback systems. The robot's compact size allows for easy installation and maintenance.

### SCARA Robot RS401

- **Description:** SCARA Robot RS401 is designed for high precision and accuracy in pick-and-place tasks. The robot's modular design allows for easy customization and adaptability to various applications.

### Articulated Robot RA605

- **Description:** Articulated Robot RA605 offers high precision and accuracy in complex motion tasks. The robot's modular design allows for easy customization and adaptability to various applications.

### Electric Gripper

- **Description:** Electric Gripper offers high precision and accuracy in pick-and-place tasks. The robot's modular design allows for easy customization and adaptability to various applications.

### Delta Robot RD4631, Delta Robot RD4633, Maneuver Delta RH401

- **Description:** Delta Robot RD4631, Delta Robot RD4633, and Maneuver Delta RH401 offer high precision and accuracy in pick-and-place tasks. The robot's modular design allows for easy customization and adaptability to various applications.

### Industrial Robot - Multi Axis Robot

- **Description:** Industrial Robot - Multi Axis Robot offers high precision and accuracy in pick-and-place tasks. The robot's modular design allows for easy customization and adaptability to various applications.

### Industrial Robot - Single Axis Robot

- **Description:** Industrial Robot - Single Axis Robot offers high precision and accuracy in pick-and-place tasks. The robot's modular design allows for easy customization and adaptability to various applications.

### Subsidiaries & R&D Centers

- **Technological Park:** Taichung Precision Machinery Park
- **Innovative Centers:** HIWIN MIKROSYSTEM CORP.

### Contact Information

- **www.hiwin.tw**
- **info@hiwin.ch**
- **info@hiwin.de**
- **info@hiwin.fr**
Product Directory

**Ballscrews**

**Linear Guideway**

**Industrial Robot**

**Precision Bearing**

**Linear Actuator**

**Linear Motor**

**AC Servo Motor & Drive**

**Integration Products**

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**Ball Screws**

**Linear Guideway**

**Industrial Robot**

**Precision Bearing**

**Linear Actuator**

**Linear Motor**

**AC Servo Motor & Drive**

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**Industrial Robot - Multi Axis Robot**

- **Articulated Robot RA405**
  - A new generation of high-precision, multi-axis robots designed for medical, semiconductor, and electronics applications. The robot offers high precision, accuracy, and repeatability.
- **Electric Gripper**
  - Used in the handling of small parts in the medical equipment industry. It offers high speed, high precision, and a compact design.

**Industrial Robot - Single Axis Robot**

- **KK Series**
  - A single-axis robot designed for high-precision applications in the medical and semiconductor industries. It offers high accuracy, high efficiency, and high reliability.
- **KA Series**
  - A single-axis robot with a high level of integration, offering high accuracy and high reliability for various applications.

**Medical Equipment**

- **KS Series**
  - A medical robot designed for use in the medical industry, offering high accuracy, high efficiency, and high reliability.
- **SCARA Robot RS401**
  - A high-precision SCARA robot designed for medical applications, offering high accuracy, high efficiency, and high reliability.

**Humanistic Technology**

- **Humanoid Robot H2000**
  - A humanoid robot designed for use in the medical industry, offering high accuracy, high efficiency, and high reliability.

**Ecology First**

- **Industrial Robot - Multi Axis Robot**
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**Robotic Equipment Technology**

- **Robotic Endoscope Holder**
  - Designed for use in the medical industry, offering high accuracy, high efficiency, and high reliability.
- **Robotic Cart/Transport System**
  - A robotic cart designed for use in the medical industry, offering high accuracy, high efficiency, and high reliability.

---

**Integration Products**

- **Robotik Shafts**
  - A range of shafts designed for use in the medical industry, offering high accuracy, high efficiency, and high reliability.
- **Robotic Grippers**
  - A range of grippers designed for use in the medical industry, offering high accuracy, high efficiency, and high reliability.

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**High Speed, High Precision, Industry First, Multifunctional Integration, Humanistic Technology**

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**Motion Control and System Technology**

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### Ballscrews

- **Super S series**
  - Ballscrews
  - Super S series
  - EW is designed for standard DIN ball nuts used on rolled
  - Finger wiper and a high dense felt prevents powdery
  - SH (Felt + Scrape Wiper)
  - Extends out from the end face of the ball nut, the
  - Dm-N value is up to 160,000
  - High speed operation and longer product life-cycle
  - Accuracy grade: JIS Grade C7
  - Special lubrication design for short stroke

- **E2 self-lubricant**
  - Interchangeable oil selection
  - Clean and environmental friendly
  - Economical
  - Keeps temperature constant and reduces
  - Strengthen durability
  - Prevents thermal distortion
  - Optimized design for high reliability

### Linear Guideway

- **Roller type**
  - Segments
  - EG Series
  - HG Series
  - Self-aligning capability to absorb installation-error
  - High rigidity enables the rolling element only have slightly elastic
  - The linear contact of Rolling element, rail, and block,

- **Precision Ground**
  - Provides high accuracy, enables the rolling element only have slightly elastic
  - The linear contact of Rolling element, rail, and block,

- **EG Series**
  - with Fully Field (EG Linear Guide)
  - Self-aligning capability to absorb installation-error
  - High speed operation and longer product life-cycle
  - Accuracy grade: JIS Grade C7

- **HG Series**
  - High precision (HG Linear Guide)
  - Self-aligning capability to absorb installation-error
  - High speed operation and longer product life-cycle

- **PM Series**
  - Low profile (PM Linear Guide)
  - Self-aligning capability to absorb installation-error
  - High speed operation and longer product life-cycle

- **SC Series**
  - Sliding guide (SC Linear Guide)
  - Low noise and no backlash: self-lubricating ballscrews

### Linear Actuator

- **LJLNA**
  - N: 400000~600000
  - S: 300000~400000
  - X: 200000~300000
  - High precision
  - Scale length: 0.1~2.0mm.

- **LJLP**
  - N: 400000~600000
  - S: 300000~400000
  - X: 200000~300000
  - High precision
  - Scale length: 0.1~2.0mm.

### Linear Motor

- **LJM**
  - Large stroke
  - High speed
  - High precision

### Linear Motor Direct Drive Motor

- **LJL**
  - Large stroke
  - High speed
  - High precision

- **LJN**
  - Large stroke
  - High speed
  - High precision

- **LJL**
  - Large stroke
  - High speed
  - High precision

### Torque Motor Direct Drive Motor

- **LJL**
  - Large stroke
  - High speed
  - High precision

### Positioning Measurement System

- **HIWIN position measurement system**
  - Excellent measurement precision
  - High accuracy
  - Application to the following systems

- **HIWIN Linear Guide System**
  - Excellent measurement precision
  - High accuracy
  - Application to the following systems

- **HIWIN Linear Actuator**
  - Excellent measurement precision
  - High accuracy
  - Application to the following systems

- **HIWIN Linear Motor**
  - Excellent measurement precision
  - High accuracy
  - Application to the following systems

- **HIWIN Linear Motor Direct Drive Motor**
  - Excellent measurement precision
  - High accuracy
  - Application to the following systems

### AC servomotor

- **Servomotor Drive**
  - High performance
  - Excellent measurement precision
  - High accuracy
  - Application to the following systems

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**Positioning Measurement System**

- High precision and high performance linear positioning system
- Optimized for use in processing linear guides, the measurement head and guide axes
- Closed-loop control system
- Accuracy and repeatability under ±0.3 µm
- Excellent performance in high-speed operations
- Suitable for various industries such as automotive, semiconductor, and medical sectors

**Torque Motor Direct Drive Motor**

- Suitable for high-speed applications
- High torque and speed capabilities
- Compact and lightweight design
- Easy integration and high efficiency

**Linear Motor**

- Linear actuator for high-speed and high-precision applications
- Various types available including standard and customized models
- Features such as high-speed, high-precision, and high-reliability

**Multi-axis Linear Motor Positioning System**

- Ideal for complex movement systems
- Suitable for applications requiring precise control
- Compact design for easy integration
- Provides high-speed and high-precision positioning

---

**Precision Bearing**

- Precision ball bearings for high-speed and high-precision applications
- Multiple types available including standard and high-precision models
- Features such as high-speed, high-reliability, and high-stiffness

**Linear Guideway**

- Linear guideway for high-speed and high-precision applications
- Various types available including standard and high-precision models
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**Linear actuators**

- High-speed and high-precision linear actuators
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**Positioning Guideway**

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**AC servo Motor & Drive**

- AC servo motor and drive system
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**AC servo Motor & Drive**

- AC servo motor and drive system
- Various types available including standard and customized models
- Features such as high-speed, high-reliability, and high-stiffness
**Positioning Measurement System**


**Linear Motor**

- **Model**: LMS, LMC, LMT, LMAP, TMS, LMAP
- **Features**:
  - Encoder: Encoder counter, pulse output
  - Accuracy enhancement: ±1µm at 10m/min
  - High acceleration: 10,000mm/s²
  - Large thrust: 500N ~ 1200N
  - Customization: Customized design
  - Applications: Robots, inspection/testing equipment, automation, pick and place, FPD equipment

**Linear Actuator**

- **Model**: LMCS, LMC, LMT, LMAP, LMAP
- **Features**:
  - Encoder: Encoder counter, pulse output
  - Accuracy enhancement: ±1µm at 10m/min
  - High acceleration: 10,000mm/s²
  - Large thrust: 500N ~ 1200N
  - Customization: Customized design
  - Applications: Robots, inspection/testing equipment, automation, pick and place, FPD equipment

**AC Servo Motor & Drive**

- **Model**: SVM, SVM, SVM, SVM, SVM, SVM
- **Features**:
  - Encoder: Encoder counter, pulse output
  - Accuracy enhancement: ±1µm at 10m/min
  - High acceleration: 10,000mm/s²
  - Large thrust: 500N ~ 1200N
  - Customization: Customized design
  - Applications: Robots, inspection/testing equipment, automation, pick and place, FPD equipment

**Torque Motor Direct Drive Motor**

- **Model**: LMG, LMG, LMG, LMG, LMG, LMG
- **Features**:
  - Encoder: Encoder counter, pulse output
  - Accuracy enhancement: ±1µm at 10m/min
  - High acceleration: 10,000mm/s²
  - Large thrust: 500N ~ 1200N
  - Customization: Customized design
  - Applications: Robots, inspection/testing equipment, automation, pick and place, FPD equipment

**Multi-axis Linear Motor Positioning System**

- **Model**: LML, LML, LML, LML, LML, LML
- **Features**:
  - Encoder: Encoder counter, pulse output
  - Accuracy enhancement: ±1µm at 10m/min
  - High acceleration: 10,000mm/s²
  - Large thrust: 500N ~ 1200N
  - Customization: Customized design
  - Applications: Robots, inspection/testing equipment, automation, pick and place, FPD equipment

**Ballscrews**

- **Heavy load ballscrews**
  - RD series
  - Super S series

- **Super S series**
  - EW (Rubber Wiper)
  - Finger wiper and a high dense felt prevents powdery dust from entering the ball nut.

- **Recirculation divide**
  - High speed operation and longer product life-cycle

- **C. Special lubrication design for short stroke**
  - Heavy Load:
    - Rolled ballscrews available in JIS Grade C6~C10
    - Accuracy grade:
      - High acceleration and deceleration
      - Dm-N value up to 220,000
      - (5~7 dB lower than external recirculation series)

- **Rotating nut ballscrews**
  - Super R series
  - Super T series

- **Cool Type I-extra high Dm-N value**
  - Applications for special environments: dusty or wet
  - Interchangeable oil selection
  - Effortless and flexible installation
  - Economical

- **D. Positioning Guideway**
  - Insusceptible to harsh environmental factors; such as water, oil, dust, vibration, and heat.
  - Long distance measurement (magnetic strip up to 30m)
  - Non-contact measuring sensor: ensures a long lifetime.
  - Integrating the linear guideway with a magnetic encoder provides high precision.

- **Linear Motor & Drive**
  - Standard stroke: 300~500 mm
  - Max. speed: 3~17 mm/sec
  - Control: 1. Hall sensor 2. Potentiometer 3. Encoder or Resolver
  - Extremely dynamic without gear transmission losses
  - The deviation in synchronization movement < 5µm
  - Repeatability within 1µm
  - 1µm resolution with speeds of up to 10m/min

- **Linear Actuator**
  - Standard stroke: 300~500 mm
  - Max. speed: 3~17 mm/sec
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  - The deviation in synchronization movement < 5µm
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**Linear Motor**

- **Model**: LMCS, LMC, LMT, LMAP, LMAP
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### Ballscrews
- **Super S series**
  - Heavy load ballscrews
  - Precision ground ballscrews available in JIS Grade 2J
  - Accuracy grade: E2 self-lubricant rotating nut ballscrews - R1 series
  - Accuracy grade: E2 self-lubricant rotating nut ballscrews - R1 series
- **Heavy load ballscrews-RO series**
  - Accuracy grade: E2 self-lubricant rotating nut ballscrews - R1 series
  - Accuracy grade: E2 self-lubricant rotating nut ballscrews - R1 series

### Linear Guideway
- **Linear Contact**
  - High loads, and rigidity
  - High rigidity in all four directions
  - Self-aligning capability to absorb installation errors
- **Rigid Linear Contact**
  - Compact and high positioning accuracy
  - Low noise (3~5 dB lower than external recirculation series)
  - Support units
  - Various support unit types and dimensions to meet specific applications
- **Linear Motor**
  - 1µm resolution with speeds of up to 10m/min
  - Scale length up to 30m
  - Compact size
  - Easy installation: installation method is similar to that of the stainless steel version
  - Encoder or Resolver
  - Maintenance free and compact
  - Hollow shaft
  - No gear transmission losses
  - Drive free of clearance
  - Max. Velocity 5 m/s
  - Best positioning feedback system resolution 50nm
  - Total system can have up to 18 axes
  - Customized design

### Positioning Guideway
- **Linear Motor Drives**
  - 1µm resolution with speeds of up to 10m/min
  - Scale length up to 30m
  - Compact size
  - Easy installation: installation method is similar to that of the stainless steel version
  - Encoder or Resolver
  - Maintenance free and compact
  - Hollow shaft
  - No gear transmission losses
  - Drive free of clearance
  - Max. Velocity 5 m/s
  - Best positioning feedback system resolution 50nm
  - Total system can have up to 18 axes
  - Customized design

### Linear Actuator
- **L.JU2A**
  - Max. stroke: 900mm (35.4 in)
  - Max. repetitive accuracy: ±2µm
  - Max. positioning precision: ±2µm
  - 3 Position feedback hall sensor
- **L.JU2J**
  - Precision design with 2 backlash blocks
  - 3 Position feedback hall sensor
  - Precision design with 2 backlash blocks
  - 3 Position feedback hall sensor

### Precision Bearing
- **Caged Radial Shaft bearings**
  - Smooth rotation
  - Easy installation and maintenance
  - Can be installed with oil and dust filters for a total solution
- **SS(Scrape wiper)**
  - Finger wiper and a high dense felt prevents powder
- **Dm-N value is up to 160,000**
  - Recirculation divide
- **C. Special lubrication design for short stroke**
  - Linear and high precision specifications
  - Small preload ensuring range from 0.3 to 2µm
  - Normal Dowel Type, Dowel Vibration damping Type, and Dowel Bearing damping Type
  - Material: Oil-Free, Plastic, Stainless Steel, and Cylindricals

### Torque Motor Direct Drive Motor
- **Applications**
  - Integrated design, the recirculation part is made of resin
  - Protection: IP54/IP66
  - Screw type: ACME
  - Max. thrust/pull: 5000N~12000N
  - Shaft diameter ranging from 6 mm to 50 mm
  - Support combination of both radial and thrust loads
  - Space saving construction
  - Patented high rigidity and high load capacity
  - Flange Type (in Japanese Spec.), and customized designs
  - Can be supplied with Hiwin Ballscrews for a total solution
  - Easy installation and adjustment
  - Can be assembled with Hiwin Ballscrews for a total solution
  - Various Support unit types and dimensions to meet specific applications

### Linear Motor
- **L.JU2A**
  - Max. stroke: 900mm (35.4 in)
  - Max. repetitive accuracy: ±2µm
  - Max. positioning precision: ±2µm
  - 3 Position feedback hall sensor
  - Precision design with 2 backlash blocks
  - 3 Position feedback hall sensor

### Multi-axis Linear Motor Positioning System
- **Applications**
  - Integrated design, the recirculation part is made of resin
  - Maximum speed: 110m/min
  - Maximum output: 150N
  - 3 Position feedback hall sensor
  - Dwell free of clearance
  - Pulse output: 5VDC square wave
  - 3 Position feedback hall sensor
  - Dwell free of clearance
  - Pulse output: 5VDC square wave