3. HIWIN will not sell or export those products improvements.

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**AC Motors**

- Polarity reversal
- Position feedback

**AC Servo Motor & Drive**

- Step angle: 1.8° or 5.6°
- Non-contact magnetic encoder
- High stiffness
- Long life
- Robust and compact
- High torque
- Low noise
- Easy programmable

**AC Servo Drive**

- High performance
- Digital control
- Low noise
- High efficiency

**Positioning Measurement System**

- Motion solutions with selectable resolutions are available.
- Max Speed: 10m/sec
- Resolution: to 1µm
- Repeatability: to 1µm

**AC Servo Motor**

- Motor sizes: 50W to 1KW
- High speed: very high accuracy
- Self-alignment to absorb installation errors
- High load ratings
- Low noise and vibration
- Low heat generation
- Protection Class: IP67
- Max Speed: 10m/sec
- Resolution: to 1µm
- Repeatability: to 1µm

**Positioning Guideway**

- Motion solutions with selectable resolutions are available.
- Max Speed: 10m/sec
- Resolution: to 1µm
- Repeatability: to 1µm

**Linear Guideway Accessories**

- Low profile linear guide system with an integrated magnetic encoder
- Vibration suppression
- Application
- Drive unit
-通用
- 高速
- 小形
- 耐磨
- 超精密
- 省力
Articulated Robots
- i-Auto Robots
  - High-speed and high-precision robots
  - Can be applied to a wide range of industrial applications

Joint Robots
- RC Series
  - Compact design
  - High-speed and high-precision operation

HIWIN website for patented product directory: http://www.hiwin.tw/Products/Products.php

HIWIN will not sell or export those products, techniques and products restricted under the “Foreign Trade Act” and relevant regulations. Any export of restricted products should be approved by competent authorities in accordance with relevant laws, and shall not be used to manufacture or develop the nuclear, biochemical, missile and other military weapons.

Products may be different from the specifications and photos in this catalog, and the differences in appearances or specifications may be caused by, among other things, product improvements.

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- Compact size with high speed
- Easily grip deformable parts, rubber, glass, etc.
- ISO14644 – IP65 and Clean Room Class 2 – ports
- Multiple electric and pneumatic capacities
- 5kg, 10kg and 20kg weight multiple configurations

The specifications in this catalog are subject to change without notification.

- System Technology
- AC Servo Motor & Drive
- Linear Guideway Accessories

Linear Guideway

**HG Series (Heavy) and Light Type Linear Guideway**

- High precision and high rigidity
- Excellent load capacity and high-speed operation
- Standard ball screw and oil seal
- Basic Dynamic Load: 5.23kN - 29.8kN
- Size: 15mm to 35mm
- Accuracy: C to UP

**MG Series**

- Very low profile, high accuracy
- Self-alignment to limit installation-error
- Equal load ratings in radial, reverse radial and lateral directions
- Basic Dynamic Load: 1.138kN – 124.43kN
- Size: 15mm to 45mm
- Accuracy: C to UP

**EG Series**

- Very high load capacity
- High Precision
- Guideways.
- Self-alignment to absorb installation-error
- Basic Dynamic Load: 13.8kN – 124.43kN
- Size: 15mm to 45mm
- Accuracy: C to UP

**HG Series Light Type Linear Guideway**

- High rigidity and high-speed operation
- Standard ball screw and oil seal
- Basic Dynamic Load: 0.22kN – 6.9kN
- Size: 15mm to 35mm
- Accuracy: C to UP

**QH/QE/QW/QR Series**

- High rigidity and high-speed operation
- Standard ball screw and oil seal
- Basic Dynamic Load: 0.54kN – 8.93kN
- Size: 5mm to 15mm
- Accuracy: C to P

**SynchMotion™ Technology** and are interchangeable with the HG/EG/WE/RG series respectively.

- SynchMotion™ Technology
- High Performance
- Compact design
- Max Speed: 10m/sec
- Resolution: to 1µm
- Maximum Length: 30m
- Repeatability: to 2µm

- Optional brake
- Motor sizes: 50W to 1KW
- Low noise and vibration
- High resolution and positional accuracy

Positioning Measurement System

- Positioning systems with non-contact magnetic encoders for integration with a linear guideway. A magnetic sensor can be attached to the “end cap” and end seal of a linear guideway block.

HIWIN’s Linear Guideway

- Compact design
- Max Speed: 10m/sec
- Resolution: to 1µm
- Maximum Length: 30m
- Repeatability: to 2µm

- End cap and seal
- Magnetic strip embedded in rail
- Non-contact magnetic encoder
- Magnetic sensor
- Optional brake
- Motor sizes: 50W to 1KW
- Low noise and vibration
- High resolution and positional accuracy
- Maximum Length: 30m
- Repeatability: to 2µm

**AC Motors**

- Pole: 4 poles
- Rated Speed: 3600rpm
- Rated Power: 500W
- Rated Voltage: 220V
- Rated Current: 3A

- AC Drives
- Field-oriented, vector controlled
- Rated Speed: 3600rpm
- Rated Power: 500W
- Rated Voltage: 220V
- Rated Current: 3A
- Field-oriented, vector controlled

**E2 kit**

- Rail raceway lubricator
- Installed between the end cap and seal of a linear guideway block.
- Repeatability: to 2µm

- End cap and seal
- Magnetic strip embedded in rail
- Non-contact magnetic encoder
- Magnetic sensor
- Optional brake
- Motor sizes: 50W to 1KW
- Low noise and vibration
- High resolution and positional accuracy
- Maximum Length: 30m
- Repeatability: to 2µm

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- Magnetic strip embedded in rail
- Non-contact magnetic encoder
- Magnetic sensor
- Optional brake
- Motor sizes: 50W to 1KW
- Low noise and vibration
- High resolution and positional accuracy
- Maximum Length: 30m
- Repeatability: to 2µm

**Positioning System**

- Positioning systems with non-contact magnetic encoders for integration with a linear guideway. A magnetic sensor can be attached to the “end cap” and end seal of a linear guideway block.

- End cap and seal
- Magnetic strip embedded in rail
- Non-contact magnetic encoder
- Magnetic sensor
- Optional brake
- Motor sizes: 50W to 1KW
- Low noise and vibration
- High resolution and positional accuracy
- Maximum Length: 30m
- Repeatability: to 2µm
**Product Directory**

### Linear Guideway

<table>
<thead>
<tr>
<th>Series</th>
<th>Type</th>
<th>Specifications</th>
</tr>
</thead>
</table>
| RG     | Heavy Load Type       | - Basic Dynamic Load: 11.3kN - 275.3kN  
- Size: 15mm to 65mm  
- Accuracy: H to UP  
- Self-alignment to limit installation-error  
- Equal load ratings in radial, reverse radial and lateral directions  
- Basic Dynamic Load: 11.38kN - 208.36kN  
- Size: 15mm to 65mm  
- Accuracy: C to UP  
- Groove and structure optimization for high load capacity  |
| WE     | Heavy Load Type       | - Very low profile, high accuracy  
- Self-alignment to absorb installation-error  
- Basic Dynamic Load: 0.54kN - 8.93kN  
- Size: 5mm to 15mm  
- Accuracy: C to P  |
| MG     | Heavy Load Type       | - Longer running life  
- Reduced dust generation  
- Quiet operation  
- Stainless steel  
- Basic Dynamic Load: 0.54kN - 8.93kN  
- Size: 5mm to 15mm  
- Accuracy: C to P  |
| EG     | Low Profile Type      | - Longer service life  
- Quick installation  
- Superior load ratings  
- Basic Dynamic Load: 0.54kN - 8.93kN  
- Size: 5mm to 15mm  
- Accuracy: C to P  |
| CG     | Low Profile Type      | - O-Type bearing configuration greatly improving moment load capacity  
- Self-lubricant  
- Pitched ball type  |
| QH/QE/QW/QR | Quiet Type       | - Longer running life  
- Reduced dust generation  
- Quiet operation  
- Basic Dynamic Load: 0.54kN - 8.93kN  
- Size: 5mm to 15mm  
- Accuracy: C to P  |

### Articulated Robots

<table>
<thead>
<tr>
<th>Series</th>
<th>Type</th>
<th>Specifications</th>
</tr>
</thead>
</table>
| RJ     | Rotary Joints         | - Increases reach  
- Compact design minimizes load requirement and end effector interference  
- Built-in conveyor tracking system  |
| RD     | Delta Robots          | - Perform high speed motions with agility  
- Requires vision system  |
| RA     | 6-Axis Robots         | - Easily grip deformable parts, rubber, glass, etc.  
- Need for vision system  |
| RI     | Articulated Robots    | - Increase reach  
- Compact size with high speed, high accuracy  |

### HIWIN System Technology

- **Motion Control and System Technology**
- **Positioning Guideway**
- **Positioning Measurement System**
- **AC Servo Motor & Drive**

**Contact Information**

- **HIWIN France**
  - www.hiwin.ch
- **HIWIN Switzerland**
  - www.hiwin.it
- **HIWIN Japan**
  - www.hiwin.co.jp
- **HIWIN Singapore**
  - www.hiwin.sg
- **HIWIN China**
  - www.hiwin.cn
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  - www.hiwin.kr
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**Visit**

- [www.hiwin.tw](http://www.hiwin.tw)

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*Note: The information provided is subject to change without notice. For the most accurate and up-to-date information, please visit the company’s official website.*
**Super S series**

- The Super S series features an internal recirculation design with the maintenance nose and slider below the standard ballscrew, enhancing wear resistance.
- JIS Accuracy: C7
- High Acceleration and a longer service life.
- Reinforced circulation system suitable for high-speed capacity than a standard ballscrew series with a C6-C10 (rolled ballscrew).
- Acceleration: 9.8 m/sec²
- Low noise: 5-7 dB lower than external recirculation

**Cool Type I & II**

- Single-Threaded ballscrews
- Suited for harsh environments: e.g., excess moisture and dust
- Clean and environmentally friendly
- Ideal lubrication position
- Easy to install and refill
- Extend maintenance cycle
- Efficient and economical lubrication option.
- Dm-N Value: to 160,000
- JIS Accuracy: C6-C10 (ground ballscrew)
- Low noise: 3-5 dB lower than external recirculation

**Dustproof options**

- Built-in position feedback system
- Air bearing for wear-free operation
- Max. acceleration 10G
- High thrust 20,827N

**Multi-Threaded ballscrews**

- E2 Self-lubrication options
- For applications that require high-speed, high-precision positioning
- Suitable for high-feed applications, e.g., precision machinery and tooling.

**Single-Axis Robot - Ballscrew or Belt Driven Stage**

- KA Series
  - Prompt delivery – Fully assembled systems in as little as 2-4 weeks
  - Competitive prices – Save as much as 50%
  - Single and multi-axis designs
  - Complete motor, drive and accessory solutions

- KS Series
  - Speed: to 1800 mm/s
  - Travel: to 3 m
  - Static Load: to 8650 kg
  - Speed: to 1500 mm/s
  - Accuracy: to 20-50 µm
  - Repeatability: to 3 µm

- KK Series
  - Speed: to 1000 mm/s
  - Travel: to 1.1 m
  - Static Load: 3600 kg
  - Speed: to 1500 mm/s
  - Accuracy: to 20-40 µm
  - Repeatability: to 3 µm
  - SynchMotion™ into the KK series design for quieter performance.

The KA series is a ballscrew or belt-driven stage with a dustproof strip and internal air pressurization to control particle transmission. The KS series is a light-weight ballscrew driven guideway with an optimized U-rail for high stiffness and accuracy. The KK series incorporates TaperDisk™ into the KK series design for quieter performance.

**Linear Motor**

- Features:
  - Resolution: 4,320,000 p/rev
  - Max. Speed: 700 rpm
  - Repeatability: ±3 arc/sec.

Applications:
- Laser scanning and cutting equipment
- Water jet
- PCB/AOI equipment
- Solar energy equipment
- FPD equipment
- Automation pick and place

**Shaft Motors**

- Customized design
- Shaft diameter to match linear motor
- High quality, high precision, high quality
- Brushless DC motor with high torque
- Built-in position feedback system
- Magnetic feedback stepping motor

Applications:
- Industrial automation
- Robot arms and end-effectors

**Planar Motor**

- Designed for motion in all three axes simultaneously
- Built-in position feedback system
- Vector magnetic feedback stepping motor

Applications:
- Automation machinery
- Robot arms and end-effectors
- Industrial automation
**Ballscrews**

- **Heavy load ballscrews - RD series**
  - Flexible spring-loaded fingers extended from ends
  - SS (Scrape wiper)
  - JIS Accuracy: C7
  - High Acceleration: 9.8m/sec²
  - Reinforced circulation system suitable for high speed
- **Super S series**
  - C6-C10 (rolled ballscrew)
    - JIS Accuracy: C0-C7 (ground ballscrew)
    - Acceleration: 9.8m/sec²
  - Exceptional Dm-N Value: to 220,000
- **E2 Self-lubricant options**
  - Suited for harsh environments: e.g., excess moisture and dust
  - Interchangeable oil selection
  - Efficient and economical lubrication option.

**Single-Axis Robot - Ballscrew or Belt Driven Stage**

- **KE Series**
  - Speed: to 1000mm/s
  - Travel: to 1.1m
  - Repeatability: to 20µm
  - Max Load: 95kg
- **KU Series**
  - Speed: to 1500mm/s
  - Travel: to 1.5m
  - Static Load: 3600kg
  - Speed: to 500mm/s
  - Travel: to .8m
- **KK Series**
  - Speed: to 3000mm/s
  - Travel: to 3m
  - Repeatability: to 10µm
  - Max Load: 300kg

**Linear Actuator**

- **LS1 Series**
  - Max Speed: 450-1260mm/sec
  - Standard stroke: 20-300mm
  - Max Load: 5kg
- **LS2 Series**
  - Max Speed: 750-300mm/sec
  - Standard stroke: 25-350mm
  - Max Load: 3kg
- **LS3 Series**
  - Max Speed: 2200mm/sec
  - Standard stroke: 25-350mm
  - Max Load: 2kg

**Precision Bearing**

- **Crossed Roller Bearings**
  - Standard high capacity wiper type
  - Higher accuracy than the RD standard
  - Suppression of both radial and thrust load
- **Ballscrew Bearings**
  - Support units
  - Easy installation and adjustment
  - Can be supplied with润滑性 good for oil lubrication

**Torque Motor (Direct Drive Motor)**

- **Features**
  - High speed
  - High precision
  - Medium torque
  - Built-in position feedback system
  - Regenerative braking system
- **Applications**
  - Automation pick and place
  - Tooling machine industry
  - Machine tool industry
  - Turret
  - Water jet
  - PCB/AOI examination
  - Automation industry

**Linear Motor**

- **Features**
  - Customized design
  - The standard 2-axis is available: 1st mover - 180° movement, 2nd mover - 90° movement
  - Built-in position feedback system: resolution 10µm
- **Applications**
  - Automation pick and place
  - Tooling machine industry
  - Machine tool industry
  - Turret
  - Water jet
  - PCB/AOI examination
  - Automation industry
**Ballscrews**

- **Super S series**
  - Flexible spring-loaded fingers extended from ends
  - SS (Scrape wiper)
  - Dm-N Value: to 160,000
  - JIS Accuracy: C7
  - High acceleration and a longer service life.

- **Heavy load ballscrews - KD series**
  - JIS Accuracy: C0-C7 (ground ballscrew)
  - Acceleration: 9.8m/sec²
  - Low noise: 5-7 dB lower than external recirculation

The Super S series features a patented internal dust resistance.

- GW/NW

- **E2 Self-lubricant options**

- **Cool Type Ballscrew**
  - High-speed and high-precision operation

- **SH (Scrape wiper + felt)**

- **EW/NW**

**Single-Axis Robot - Ballscrew or Belt Driven Stage**

- **Single-Axis Robot**
  - Ballscrew or Belt Driven Stage

- **Super T series**
  - Suited for harsh environments: e.g., excess moisture and dust
  - Interchangeable oil selection
  - Clean and environmentally friendly

- **Ideal lubrication position**
  - Easy to install and refill
  - Efficient and economical lubrication option.

- **Prompt delivery – Fully assembled systems in as little as 2-4 weeks**
- **Competitive prices**
- **Easy to install with high performance**

- **Off-the-shelf / Assembly ready**
  - Speed: to 1800mm/s
  - Travel: to 3m
  - Repeatability: to 20µm
  - Max Load: 95kg

- **LMT Series, LMSP Series, LMSC Series, LMC Series, LMF Series, LMFA Series, LMS Series, LMSA Series**

**Linear Motor**

- **Ironcore Motors**
  - Maximum torque up to 5100 Nm
  - Maximum speed up to 3200 rpm
  - Water cooled

**Linear Actuator**

- **LAS Series**
  - Various support unit types and dimensions to meet customer requirements.
  - Black Oxide surface coating
  - Standard type and High capacity type
  - Easy installation and adjustment
  - Space saving

**Support Units**

- **Linear Motor**
  - Shaft Mounts
    - High Torque
    - Low Torque
  - Magnetic Clamping

**Planar Motors**

- **TMRW Torque Motor**
  - Built-in position feedback system
  - Separation distance stepping motor

**Electrical Motor Systems**

- **Torque Motor (Direct Drive Motor)**
  - Features:
    - High torque, low inertia
    - High efficiency
    - Smooth operation
    - Compact size
  - Applications:
    - Automation and robotics
    - Medical equipment
    - High precision positioning systems

**Linear Actuators**

- **LAK Series**
  - High performance, compact design
  - Linear motion actuators
  - Position feedback
  - Water cooled

**Crossed Roller Bearings**

- **Crossed Roller Bearings**
  - Cross-roller bearing units
  - Higher accuracy than the RE series
  - Cross-roller bearing units

**Other available series**

- **Linear Motor**
  - High performance
  - Easy installation and adjustment
  - Carries assembled with 2-ball screws for maximum vibration and noise reduction.
**Ballscrews**

**Super G Series**
- The Super G series boasts a patented dual axial self-centering design with a precision machined and tempered screw. 
- Reduced friction and wear for longer service life and excellent load capacity.
- Ground ballscrew with a C6-C10 (rolled ballscrew) accuracy.
- JIS Accuracy: C0-C7 (ground ballscrew)
- Acceleration: 9.8m/sec²
- Space Saving: 18% - 32% smaller than a standard ballscrew series with a C6-C10 (rolled ballscrew) accuracy.
- JIS Accuracy: C0-C7 (ground ballscrew)
- Low noise: 3-5 dB lower than external recirculation designs.

**Flexible spring-loaded fingers extended from ends**
- Dm-N Value: to 160,000
- JIS Accuracy: C7
- High Acceleration
- High Static Load: to 496,160kg
capacity than a standard ballscrew series with a C6-C10 (rolled ballscrew) accuracy.
- JIS Accuracy: C0-C7 (ground ballscrew)
- Acceleration: 9.8m/sec²
- Space Saving: 18% - 32% smaller

- Recirculation cassette that reduces noise and nut size.
- Finger wiper plus high density felt ring for improved dust-proof protection.
- Eliminate gap between wiper and shaft surface for better operation performance.

**Cool Type I&II Ballscrews**
- Suited for harsh environments: e.g., excess moisture and dust
- Clean and environmentally friendly
- Ideal lubrication position
- Easy to install and refill
- Extend maintenance cycle

**Super T Series**
- The Super T series features an external recirculation design with reinforced nozzle and diameter below standard ballscrew series.
- Reduced friction and wear for longer service life and excellent load capacity.
- Ground ballscrew with a C6-C10 (rolled ballscrew) accuracy.
- JIS Accuracy: C0-C7 (ground ballscrew)
- High Acceleration: 4.9m/sec²

**Single-Axis Robot - Ballscrew or Belt Driven Stage**

**KA Series**
- Competitive prices – Save as much as 50%
- Speed: to 1800mm/s
- Travel: to 3m
- Repeatability: to 20µm
- Max Load: 95kg

**KS Series**
- Speed: to 1000mm/s
- Travel: to 1.1m
- Repeatability: to 20µm
- Max Load: 15kg

**KK Series**
- Speed: to 1800mm/s
- Travel: to 3m
- Repeatability: to 20µm
- Max Load: 239kg

**KE Series**
- Speed: to 1000mm/s
- Travel: to 1.1m
- Repeatability: to 20µm
- Max Load: 25kg

**KU Series**
- Speed: to 1500mm/s
- Travel: to 3m
- Repeatability: to 3µm
- Max Load: 25kg

**SK Series**
- Speed: to 700mm/s
- Travel: to 1.1m
- Repeatability: to 3µm
- Max Load: 15kg

---

**Crossed Roller Bearings**
- Free from high spring constant and backlash
- Higher accuracy than the R2 standard
- Increased static capacity by over 20%
- Suppression of both radial and thrust loads

**Ballscrew Bearings**
- Support units
- Easy installation and adjustment
- Cared equipped with anti-rotation device for economical solution

**Linear Actuator**

**LAS3**
- Position feedback
- Connection Type: Audio/DIN 4pin
- Weight: 1.27kg
- Protection: IP54/IP65
- Max speed: 12-25mm/sec
- Standard stroke: 50-250mm

**LAS4**
- Position feedback
- Connection Type: Audio/DIN 4pin
- Weight: 1.3kg
- Protection: IP54/IP65
- Max speed: 7-15mm/sec
- Standard stroke: 50-250mm

**LAS5**
- Position feedback
- Connection Type: Audio/DIN 4pin
- Weight: 1.36kg
- Protection: IP54/IP66
- Max. thrust/pull: 300-2000N
- Standard stroke: 100-300mm

**TMRW Torque Motor**

**Linear Motor**

**Shaft Motors**
- Can be supplied with Hiwin ballscrews for a total solution

**Complete Motors Systems**
- Customized design
- The solution for optimal performance - 5rpm
- Built-in position feedback systems resolution 150µm
- Low mass, high torque
- Max. Output: 2.5kW

**Applications**
- Automatic pick and place
- Solar energy equipment
- Automation pick and place equipment
- Linear/rotary motion systems
- SPM stage
- Linear system
- Tooling systems
- Door systems
- Precision stage
**Product Directory**

**Articulated Robots**
- **4R Series – Dual Robots**
  - NC style robots
  - Heavy load
  - Moving parts and accessories
  - High acceleration and stiffness
  - Compact design
  - Long running life
  - Optional brakes

**Linear Guideway**
- **HG Series**
  - Heavy load ball type linear guidance
  - Basic dynamic load: 5.23kN - 29.8kN
  - Size: 15mm to 65mm
  - Accuracy: C to U0

**Motion Control and System Technology**
- **AC Servo Motor & Drive**
  - High performance
  - Motor sizes: 50W to 1KW
  - Low noise and vibration
  - Low heat generation
  - Protection class: IP67
  - Maximum length: 30m
  - Resolution: to 1µm
  - Max speed: 10m/sec

**Positioning Guideway**
- **WE Series**
  - Long running life
  - Quiet operation
  - Synchmotion™ technology
  - Interchangeable with HG/EG/WE/RG series

**Linear Guideway Accessories**
- **CE Series**
  - Compact design
  - Long running life
  - Optional brake

**Positioning Measurement System**
- **QH/QE/QW/QR Series**
  - Longer running life
  - Quiet operation
  - Synchmotion™ technology
  - Interchangeable with HG/EG/WE/RG series

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  - Quiet operation
  - Synchmotion™ technology
  - Interchangeable with HG/EG/WE/RG series

**Linear Guideway Accessories**
- **CE Series**
  - Compact design
  - Long running life
  - Optional brake

**Positioning Measurement System**
- **QH/QE/QW/QR Series**
  - Longer running life
  - Quiet operation
  - Synchmotion™ technology
  - Interchangeable with HG/EG/WE/RG series

**Motion Control and System Technology**
- **AC Servo Motor & Drive**
  - High performance
  - Motor sizes: 50W to 1KW
  - Low noise and vibration
  - Low heat generation
  - Protection class: IP67
  - Maximum length: 30m
  - Resolution: to 1µm
  - Max speed: 10m/sec

**Positioning Guideway**
- **WE Series**
  - Longer running life
  - Quiet operation
  - Synchmotion™ technology
  - Interchangeable with HG/EG/WE/RG series

**Linear Guideway Accessories**
- **CE Series**
  - Compact design
  - Long running life
  - Optional brake

**Positioning Measurement System**
- **QH/QE/QW/QR Series**
  - Longer running life
  - Quiet operation
  - Synchmotion™ technology
  - Interchangeable with HG/EG/WE/RG series