



AUTHORISED DISTRIBUTION PARTNERS FOR

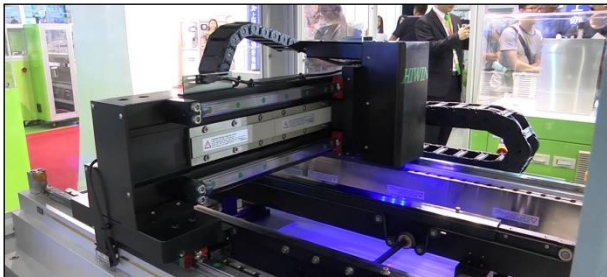
HIWIN®

Motion Control & Systems

HIWIN Technologies Corp. is the 2nd largest motion control and system technology manufacturer in the world. With products ranging from ball screws, linear guideways & special bearings to industrial robots and medical robots, and characteristics of high speed, high precision, multi-function and eco-friendly, HIWIN products are well established in the biochemistry & medical, semi-conductor, opto-electronics, intelligent automation, precision machining, transportation and energy industries.

KG International is proud to have partnered with HIWIN as their Authorised Distributor for the Middle East & Africa. This means that wherever you are in the region, you can source your total linear motion requirements from KG's extensive stock in Jebel Ali. KG works hand-in-hand with HIWIN's sales and engineering teams to provide superior products for your application, working together with you to achieve your company's objectives.

Contact us now for our world-beating solutions.



LINEAR GUIDEWAYS

Linear guideways provide linear motion by re-circulating rolling elements between a profiled rail & a bearing block. The coefficient of friction on a linear guideway is only 1/50 compared to a traditional slide and they are able to take loads in all directions. With these features, a linear guideway can achieve high precision and greatly enhanced moving accuracy. Hiwin Corporation offers multiple linear guideway series, each featuring different options for sizes, loading capabilities, accuracies, and more.



HG Series – high speed, high accuracy and smooth linear motion



EG Series – suitable for high-speed, automation machines and applications where space is limited.



CG Series – moment load capacity up to 50% higher than standard HG assemblies. Optional dust cover.



RG Series – features rollers instead of steel balls. High performance for high-precision manufacturing.



WE Series – low profile & centre of gravity, ideal where space is limited & high moments are required.



QE Series – suited in hi-tec industry where high speed, low noise & low dust generation is needed.



QW Series – SynchMotion™ for quieter, smoother movement, better lubrication, and longer service life.







QR Series – with SynchMotion™, offers super high rigidity and very high load capacities.



BALLSCREWS

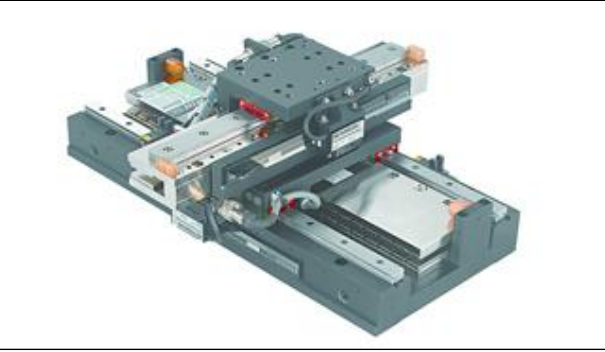
Ballscrews consist of a screw spindle and a nut integrated with rolling elements that cycle through a return mechanism. Ballscrews convert rotary motion into linear motion, and are most commonly used in industrial machinery and precision machines. Hiwin Corporation provides a wide range of ballscrew configurations to satisfy your special application requirements. Hiwin has the capability of producing JIS C0 class ground ballscrews, and DIN 5 class (up to 23 microns) for precision rolled ballscrews. Ballscrew O.D. ranging from 4mm to 120mm, and with Dm-N values up to 220,000.











	
<p>Heavy Load Series – 2-3 times higher loading capacity than a standard ballscrew series.</p>	<p>Roller Screw – use rollers instead of steel balls, & offer 1.5-2 times higher load capacity than standard.</p>
	
<p>E2 Series – self-lubricating kit makes sure a ballscrew is properly lubricated for long periods.</p>	<p>Dust-proof Options – prevent debris from entering the ball nut, especially heavily contaminated environments</p>

LINEAR MOTORS

HIWIN Corporation linear motors are direct drive, plug and play solutions. Linear motors are capable of fast accelerations and high speeds, while providing unmatched precision and accuracy. Hiwin offers standardized linear motor designs but customizable options are available. Aside from single axis linear motors, these stages can be combined together to form cross tables or even gantry systems.



	
<p>Precision Ground Ballscrew – high positioning accuracy & repeatability, smooth movement & long life.</p>	<p>Roller Ballscrew – lower cost, smooth movement & low friction, and can be supplied from stock.</p>
	
<p>Super S Series – patented design return system that can absorb ball impact noise.</p>	<p>QE Series – optimal design reduces the noise level and also vibrations leading to smoother rotation.</p>
	
<p>Miniature Ground Ballscrews – high positioning accuracy & repeatability, smooth movement & long life.</p>	<p>R1 Series Rotating Nut – reduces noise generated at high speeds & offers higher axial load & stiffness.</p>

	
<p>LMXX – equipped with a powerful ironcore linear motor for high force, acceleration and velocity.</p>	<p>LMX1E-C Series – equipped with a coreless motor, for applications with high dynamics and/or accuracy..</p>



MOVING TO THE NEXT
50 YEARS
1968-2018



LMX1L-S stages - compact design and are available in overall lengths up to 4,000 mm.



LMX1L-SC stages – special sandwich motor design which relieves the load on the guides.



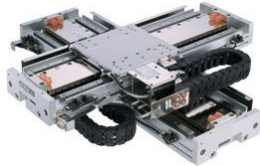
KK Series - combines ballscrew & guideway for better accuracy, stiffness, installation & space saving.



SK Series- SyncMotion™ for quieter and smoother movement, superior lubrication and longer service life.



LMX1E-T stages –for applications in semicon industries like inspection & canning requirements.



LMX1 Series Cross Tables – LMX1 series can be combined to form cross tables.



KA Series – lightweight aluminum, suitable for semiconductor and industrial automation applications..



KS Series - actuated by a motor-driven ballscrew or belt equipped with a stainless steel cover strip.



LMG2A Series Gantry Systems – systems with one-sided supporting guide rail & coreless linear motors.



LMSP Series Planar Motor – XY movements on an air bearing through a planar-servo motor.



KU Series – lightweight construction that offers high performance in position accuracy and efficiency.



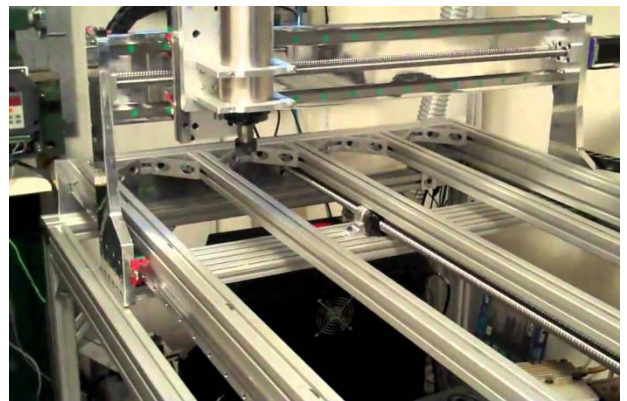
KE Series – motor-driven ballscrew module equipped with a stainless steel dust cover strip.

SINGLE AXIS ROBOTS

HIWIN Corporation's single axis robots utilize a combination of a motor driven ballscrew or belt and linear guideway system. These compact and lightweight units are customizable and can be easily transformed into a multi-axis system, making them suitable for a wide range of industrial applications. Depending on the application needs, Hiwin offers a single axis robot that will increase a systems productivity and efficiency.



KM Series – high quality / cost effective solution for companies to integrate into their OEM systems.





POSITIONING MEASUREMENT SYSTEMS

HIWIN Corporation's positioning measurement system integrates a linear guideway with a magnetic encoder. This solution offers the high stiffness and rigidity of a guideway combined with the high precision of a magnetic encoder. The encoder is a non-contact measuring sensor and the magnetic strip is embedded to prevent possible damage caused from external debris, these features ensure a longer service life. Hiwin also offers standalone read heads if space is limited or a guiding system is already in place.



1mm PMS – Standard Read Head	1mm PMS – T Type Read Head
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1mm PMS – V Type Read Head.	1mm PMS – PG Type Read Head
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1mm Signal Translator



5mm PMS – H Typee Read Head



5mm PMS – E Type Read Head



5mm PMS – V Type Read Head



5mm Signal Translator



LCD Counter System



High Efficiency Single Axis Counter



Multi Axis Counter



High Efficiency Multi Axis Counter

CROSSED ROLLER BEARINGS

HIWIN Corporation Crossed Roller Bearings consist of an outer ring, an inner ring, and a plurality of rollers and spacers. The roller lies between the inner and outer ring with the spacers placed between the rollers to prevent the mutual friction between them thereby decreasing the torque resistance for rotation. There are six types of Hiwin Crossed Roller Bearings comprising of, the split outer ring type (CRBA), the split inner ring type (CRBB), the high rigidity type (CRBC), the split outer ring with mounting holes (CRBD), the high rigidity with mounting holes (CRBE) and the customized type (CRBX).



CRBA Series – Split Outer Ring Type

CRBB Type – Split Inner Ring Type



CRBC Type – High Rigidity Type

CRBD Type – Split Outer Type with Mounting Holes



CRBE Type – High Rigidity Type with Mounting Holes

CRBX Type – Customised Type



WUTPO – Flange Type Circular Spine with Crossed Roller Bearing

WUICO – Ring Type Circular Spine with no Crossed Roller Bearing



WTIPH – Ring Type Circular Spine, Hollow Shaft with Crossed Roller Bearing

WTIAH - Ring Type Circular Spine, Sealed Design with Crossed Roller Bearing

TORQUE MOTORS & DIRECT DRIVE ROTARY TABLES

HIWIN Corporation torque motor and rotary tables ensure excellent acceleration capabilities and high precision uniform movements. Hiwin torque motor and rotary tables are backlash free, extremely rigid, optimized for high torques, have robust dynamics and are especially well suited for tasks in a wide range of automation processes. Various sizes in diameter and height are available with the option to add a servo drive for a complete plug and play solution.



HARMONIC GEARING SYSTEMS

A harmonic gearing system has three basic components: a wave generator, a flex spline, and a circular spline. The elliptical shape of the wave generator, rotating against the thin, tooth lined flex spline, drives or is driven by the rigid circular spline which has more teeth than the flex spline. The result is a gear system that will reduce speed and increase torque. The unique properties of the harmonic system allow it to achieve much higher gear ratios than other gear reduction solutions in a more compact space.



MOVING TO THE NEXT
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Direct Drive Rotary Table – DMS Series



Direct Drive Rotary Table – DMN Series



Torque Motors – TMRW Series



Servo Drive D1



Servo Drive D1-N



Servo Drive E1

unlimited orientations and point combinations while maintaining up to 20µm repeatability. Applications include pick-and-place, part handling, assembly, light machining, inspection, scanning, and many more. Hiwin can supply complete solutions, with a Hiwin electric gripper, adapter plate, controller, and teach pendant.



RA605 Series



RA620 Series

AC SERVO MOTORS & DRIVES

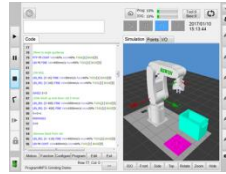
HIWIN Corporation offers AC servo motors and stepper motors, which when combined with Hiwin's product line are great solutions for converting rotary motion into linear motion. Our motors complement our product offerings and can be a complete linear motion solution when our servo drive is incorporated. Our servo drive solution is compatible with: high performance drives for linear motors, shaft motors, torque motors, and AC servo motors.



AC Servo Motors – 50w, 100w, 200w, 400w, 750w, 1000w



Servo Drive D1, D1-N, D2



HRSS Software

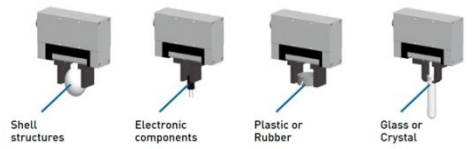


XEG-C1
Grippers – adjustable force, position, velocity & acceleration

ARTICULATED ROBOTS

Hiwin Corporation Six-Axis articulated robots are used when complex motions, faster cycle time, and high repeatability are priorities. These robots consist of six rotary axis with absolute encoders. This allows for

Gripping of parts that are easily deformed or damaged.



Measurement, Gripping in a narrow space, Detection / Identification

