

# HIWIN®

Motion Control and System Technology

# Product Directory



Subsidiary of HIWIN Technologies Corp., Taichung, Taiwan.

**Mechatronic Solutions**  
**Mechanical Solutions**  
**Industrial Robots**

# MECHANICAL SOLUTIONS

## LINEAR

HIWIN'S MECHANICAL MOTION COMPONENTS ARE KNOWN AROUND THE WORLD FOR THEIR QUALITY.

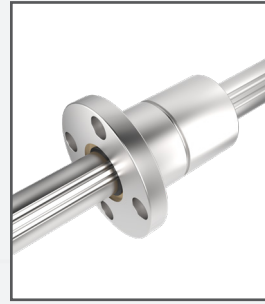
### COMPONENTS



Linear Guideways & Kits

#### ◀ Linear Guideways & Kits

Complete line of series, sizes and dust protection options to choose from.



Ballsplines

#### ◀ Ballsplines

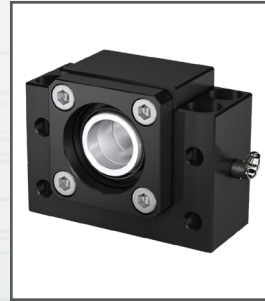
An upgrade from bushings, we offer four different types for application versatility and improved rigidity.



Ballscrew

#### ◀ Ballscrews

Choose from high precision ground and rolled ballscrews with a variety of ballnut styles.

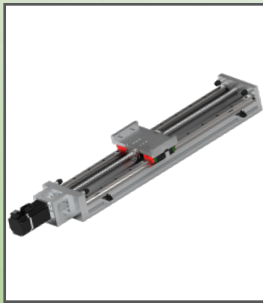


Ballscrews & Supports

#### ◀ Ballscrew Supports

Various ballscrew support units to satisfy the mounting or loading requirements of any application.

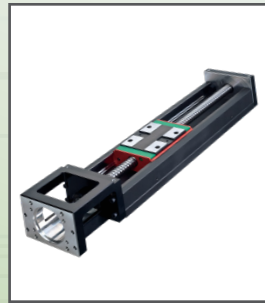
### BALLSCREW STAGES



SDXK

#### ◀ SDXK Series

Assembled in the USA using parts imported from Taiwan and elsewhere. Offers long strokes at a lower price point.



KK

#### ◀ KK & SK Series ▶

Combine our linear guideways and ballscrews into a plug and play stage. SK Series utilizes our Synchmotion quiet technology.



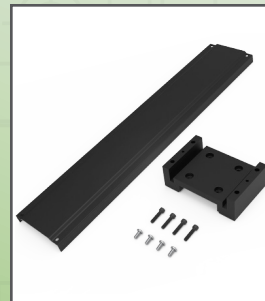
SK



Multi-Axis Ballscrew Stage

#### ◀ Multi-Axis Ballscrew Stage

Choose from one of our standard multi-axis configurations or let us co-design your custom multi-axis system.



Ballscrew Stage Cover

#### ◀ Ballscrew Stage Accessories

Covers for ballscrew stages are offered for contamination protection along with bellows, motor adaptor flanges, etc.

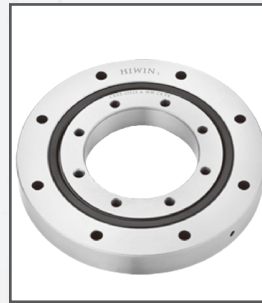
COMPONENTS



CRBA Series

◀ **Crossed Roller Bearings** ▶

Choose from inner and/or outer rotation in a variety of sizes.



CRBE Series



DSC-PO Series

◀ **DATORKER® Strain Wave Gearing Systems** ▶

A proven mechanical solution to gear reduction, we offer multiple sizes of four types.



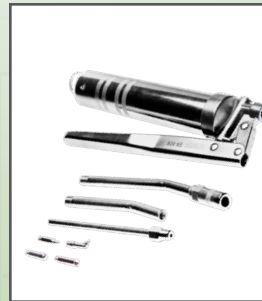
DSH-PH Series

**Grease** ▶  
Our different types of grease are available in different volumes. HIWIN knows long-lasting service is dependent on lubricating with the right grease for your environment.



Grease

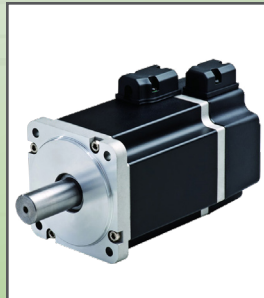
**Grease Gun** ▶  
Offered in two different sizes, our grease guns come equipped with one normal grease nozzle but can be equipped with various nozzles offered in our kit.



Grease Guns

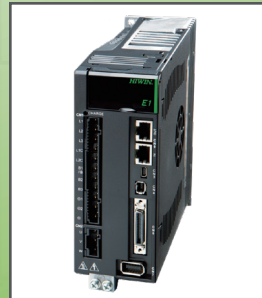
ASSOCIATED PRODUCTS

**AC Servo Motors** ▶  
Complete your ballscrew stage with a 23-bit servo using an incremental or absolute encoder.



AC Servo Motor

**AC Servo Drives** ▶  
Our drives are suitable for AC Servo rotary and linear axes. These products include an easy to use interface with improved servo algorithms for easy tuning.



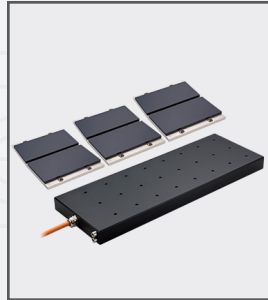
AC Servo Drive

# MECHATRONIC SOLUTIONS

## LINEAR

DESIGN ENGINEERS CAN SAVE DESIGN AND ASSEMBLY TIME BY SPEC'ING HIWIN MECHATRONIC SYSTEMS, MADE WITH OUR OWN COMPONENTS.

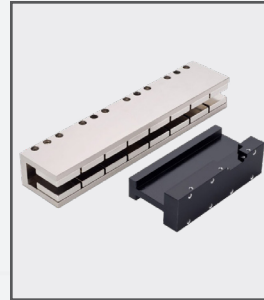
### COMPONENTS



LMFA Series

#### ◀ Iron Core Linear Motor Series

High force density; High acceleration; Ideal for point to point motion.



LMC Series

#### ◀ Ironless Linear Motor Family

Lightweight; No cogging; Low velocity ripple. Ideal for scanning applications.

### MODULE



LMSSA

#### ◀ LMSSA

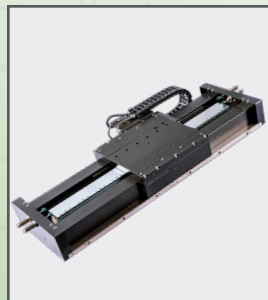
High precision linear motor stage. Available with ironcore or ironless motor options. Peak force of 1535N.



LMXK

#### ◀ LMXK

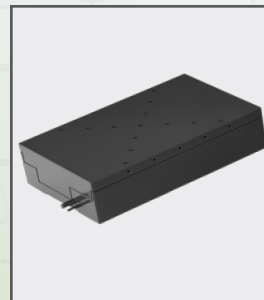
Ironcore linear stage for long strokes up to 3700mm. Peak force of 868N.



LMABS Series

#### ◀ Linear Motor Air Bearing Stage

Single-axis air bearing nano accuracy positioning stage for smooth motion and high geometric repeatability.



Nano Precision Stage

#### ◀ Nano Precision Stage

High rigidity cross roller bearing stage with a linear motor and ballscrew option.

### MULTI-AXIS



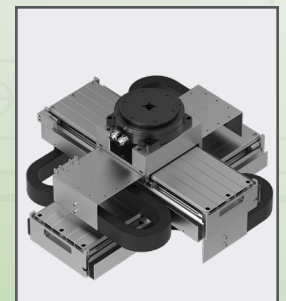
Gantry

#### ◀ Gantry, XYZ ▶

Save design and installation time with ballscrew and linear motor stages in a multitude of combinations.



XYZ



XY Theta

### PLATFORM



Diamond Air Bearing System

#### ◀ Diamond Air Bearing Bearing System

Counter-vibration for the smoothest motion on granite base technology.

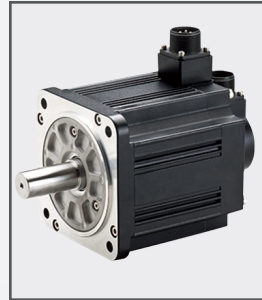
COMPONENTS

**Torque Motor** ▶  
Build rotating elements with zero wear and higher acceleration than worm gears.



TMRW Series

**AC Servo Rotary Motor** ▶  
400 W - 2 KW;  
Single and Three Phase input voltage options.



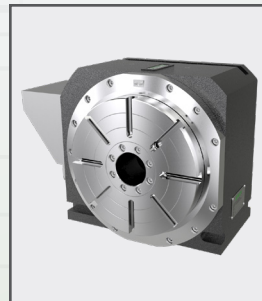
EM1 200W

**Direct Drive Rotary Table** ▶  
Internal or external rotation and hollow shaft. Standard, low or ultra-low profile.



DMS Series

**Single-Axis Torque Motor Rotary Table** ▶  
High speed and rigidity. High positioning accuracy.



RCV (250) Series

MODULE

**Multi-Axis Torque Motor Rotary Table** ▶  
Trunnion and tilting rotary tables for high speed, rigidity and position accuracy.



RAB (500) Series

**Drives** ▶  
One-stop shop for your motion system with guaranteed compatibility.



Servo Drive E1

**Excellent Smart Cube** ▶  
For the most options in encoder and PTE, include the Excellent Smart Cube.



Excellent Smart Cube

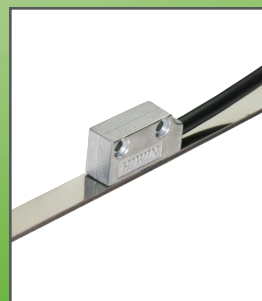
ASSOCIATED PRODUCTS

**Multi-Axis Motion Controller** ▶  
Complete your motion system with HIWIN Controllers.



HIMC Controller

**Positioning Measurement System** ▶  
Accurately measure linear position with our integrated compact easy to install design.



T Type

# INDUSTRIAL ROBOTICS

HIWIN CAN PROVIDE ROBOTS, GRIPPERS, CONTROLLERS AND VISION TECHNOLOGY. FREE SOFTWARE. MADE WITH HIWIN COMPONENTS FOR HIGH RELIABILITY.

## ARTICULATED ROBOTS



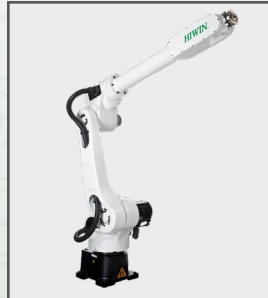
RA605 Articulated

◀ **RA605 Articulated Robot**  
6-axis robot with absolute encoder. Nominal load 5kg. Maximum reach of 710mm - 909mm. IP65 Protection Rating.



RT605 Articulated

◀ **RT605 Articulated Robot**  
Cost-effective 6-axis robot. Nominal load 5kg. Maximum reach of 710 - 909mm. IP32 Protection Rating.



RA610 Articulated

◀ **RA610 Articulated Robot**  
Slender 6-axis robot with absolute encoder. Nominal load 7 - 12kg. Maximum reach of 1355mm - 1869mm.

## SCARA ROBOTS



RS405 SCARA

◀ **RS405 SCARA Robot**  
High Speed. Nominal load of 2kg or 5kg. Reach radius of 400mm or 500mm.



RS410 SCARA

◀ **RS410 SCARA Robot**  
Highly adaptable to a variety of applications. Nominal load of 5kg or 10kg. Reach radius of 600mm, 700mm or 800mm.

## END EFFECTORS



XEG-32 Electric Gripper

◀ **XEG Series Electric Gripper** ▶  
Ready for real world requirements with simple assembly. Requires Controller (included). Compatible with HIWIN and other leading robots.



XEG-64 Electric Gripper



SEG-24 Electric Gripper

◀ **Integrated SEG Series Electric Gripper**  
A Built-in 2 pronged controller, compatible with HIWIN and other robot brands.

## ASSOCIATED PRODUCTS

### Electric Gripper Controller ▶

Stepper controller based brain-box and communication hub for XEG gripper series.



XEG End Effector Controller

### Robot Controller ▶

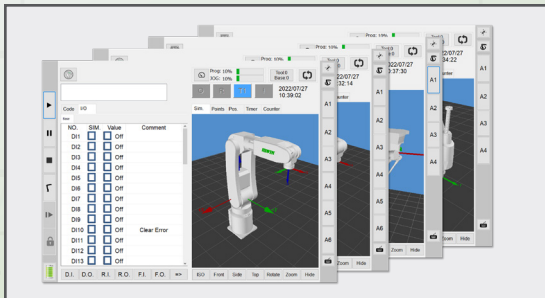
Match up HIWIN's IPC based controller with your choice of robot.



RCA605 Controller

### Software ▶

Free software downloads and updates with purchase. Teach pendant includes forward, back and left/right jog directions based on the operator position relative to the robot, and an emergency stop, with 3 position switch protects users and equipment while teaching.



HRSS HIWIN Robot Simulation Software

## HIWIN CORPORATION

HIWIN's mechanical motion components are recognized throughout the world for their quality, but did you know all the product types available from HIWIN's North American business?

In business for more than 30 years, HIWIN's broad product assortment includes electrical components, and mechatronic modules. HIWIN can also provide robots, grippers and controllers, along with free software, all made with HIWIN components for high reliability.

HIWIN maintains inventory of hundreds of part numbers in our warehouse, centrally located near Chicago for fast delivery, and has engineers on site for technical support.

Whether you select from among our standard products, or need a motion control system that fits your specific requirements, count on HIWIN for high quality and competitive pricing.



For more info about HIWIN  
Scan this QR

**HIWIN**<sup>®</sup>  
Motion Control and System Technology

[www.hiwin.us](http://www.hiwin.us)

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