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Specialists in all Bearings, Linear and Transmission Products

HIWIN

Motion Control and System Technology

A leader of motion control and system technology

Hiwin Technologies Corp. is professionally engaged in the innovation and the manufacturing of ballscrew and motion control components.

Linear guideways



Linear guideways provides linear motion by re-circulating rolling elements between a profiled rail and 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.

Ballscrews

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.



Torque Motor Rotary Tables



HIWIN Torque Motor Rotary Tables (TMRT) use a direct-drive torque motor, built-in high-rigidity and high-precision bearings, absolute encoders and powerful brake system to ensure excellent acceleration capabilities and high precision uniform movements. HIWIN TMRTs are backlash-free, optimized for high torques, have robust dynamics and are highly adaptive to the most demanding of automation processes.



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“Professional Excellence, Working Enthusiasm, and Enterprise Responsibility,” is the management philosophy since Hiwin has established, we strive for meeting with the demand of all fields.

Crossed Roller Bearings



HIWIN 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).

Datorker® Strain Wave Gearing System

Datorker® Strain Wave 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 strain wave gearing system allows it to achieve much higher gear ratios than other gear reduction solutions in a more compact space.



Single Axis Stages



HIWIN Corporation's single axis stages 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.

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.

