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Linear Motion Systems Market - Forecasts from 2020 to 2025

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Abstracts

The global linear motion system market is anticipated to grow at a CAGR of 5.11% from a market size of USD6.880 billion in 2019 to reach a market size of USD9.278 billion by the end of 2025. Linear motion systems are precise, ready-to-install, and driver systems. These contain high-performance features in compact designs. The market is projected to grow during the forecast period owing to its applications across varied end-user industry verticals. For achieving high-precision motion control of machine tools and other production machinery, design engineers require linear motion systems along with integrated features that include sealing, lubrication, measuring, and braking. The companies adopting strategies such as acquisition are contributing to driving the market growth during the forecast period. Furthermore, with innovations, companies are manufacturing different linear motion systems and improving their product portfolio, offering innovative products that fulfill the end-use customer needs. The main components of linear motion systems are categorized into one of the three segments that include actuators, linear bearings, and control systems. Common type of actuators available in market include ball screws, lead screws, screw jacks, linear slides/stages/tables, electromechanical actuators, rodless cylinders, rodless mechanical actuators, short stroke actuators, and magnetorestrictive actuators. Popular linear bearings include plain, linear rolling bushings, and linear rolling guides. Plain linear bearings and bushings include sliding-contact bearings. The control systems provide continuous monitoring of motor and system position. Furthermore, with growing automation, the market is projected to hold strong growth prospects during the forecast period.

On the basis of geography, North America is projected to hold a significant market share in the global linear motion system market. On the other hand, the Asia Pacific region is predicted to hold high market growth prospects during the course of the

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forecast period. The growing construction activities in the region is fueling the market demand in the region.

COVID-19 impact on the linear motion system market: The market is projected to experience a slight decline in the current year due to the global outbreak of novel coronavirus pandemic. The manufacturing operations are at a halt due to labour shortages, and work-from-home initiatives. Hence, this has impacted the supply of linear motion systems, further leading to a decline in demand from the end-use industries.

Significant strategies in the form of acquisitions are adopted by the companies, these are contributing to surging the market growth during the course of the forecast period.

The world is facing a shortage of skilled labours, this is due to the rise in global aging and expansion of the economies. Hence, to tackle this situation, automation is encouraging manufacturers keep their production strong and supply goods in order to fulfill the customer demands. To keep up with the current pace, companies are adopting acquisition strategy in order to expand their product sales round the world. Timken company on February 2019 announced the acquisition of the Rollon Group. The Rollon Group is headquartered in Italy with major operations in Germany, the United States, and China is a pioneer with exceptional expertise and highly customized linear motion solutions. The acquisition in 2018, is geared to help The Timken Company to take advantage of megatrends that will remain through the next decade. The linear motion solutions of the Rollon Group are unmatched and fits perfectly well with the Timken agenda to be a solution provider and technical expert in power transmission sector. The acquisition offers mutual opportunity for growth, with Rollon Group under its shelter, the Timken company aims to enter the robotics and light industrial markets, the company is also focused on strengthening its presence in the rail and aerospace industries, and further aims to increase its geographical footprint. Furthermore, the two companies complement each other well on the basis of geography. The Timken Company has a well-established brand strength along with an extensive infrastructure in the North American and Asian regions. Rollon will be capable of expanding into these areas much faster than it would have as an independent company. Simultaneously, Rollon has a well-established foothold in the European markets. With Rollon as a medium, Timken is poised to gain entry in the European passenger rail market as well.

The presence of companies offering innovative product portfolio is further strengthening the market growth prospects during the forecast period.

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THK Co. Ltd. is a worldwide leader in the manufacturing of the Linear Motion Guide mechanism. The company's guide devices are an essential component of the mechanical and electronic systems utilized in numerous industries. The company manufactured a range of mechanical components that include Ball Spline, Ball Screws, and Link Balls to supply to the customers globally.

The company's product portfolio of linear motion system includes Linear Guide (Linear Motion Guide), LM Guide Actuator, Linear Bushing, LM Stroke, Slide Pack, Slide Rail, Cross Roller Guide, Cross Roller Table, Linear ball Slide, LM Roller, and many more.

Another company Hiwin Corporation is a global leader company involved in the manufacturing and distribution of linear motion and motion control products. The products comprise linear guideways, ball screws, in stock ball screws, linear motors, and single axis robots.

Bosch Rexroth AG offer products and solutions with linear motion technology. These include ball screw assembly with features like effective seals, extremely quite running characteristic, uniform function based on complete internal recirculation, large number of balls with high load capacities, and trouble-free nut installation. The company ball rail systems offer high dynamic rating up to 10 m/s and 500 meter/s2 . Other characteristics involve very smooth-running properties, high load capacities in all four main loading directions, long-term lubrication with several years of duration, and minimal quantity lubrication system along with integrated reservoir for oil lubrication. The company's ball rail systems in miniaturized configuration has a very smooth-running characteristic with low friction and is a miniature version with very small construction. The roller rail systems have extremely high loading capacities, with high torque capacity, and minimum lubricant consumption. The company's compact linear modules have a flat profile for low design height, high repeatability and easy motor integration. The linear motion system is capable of transporting under challenging process conditions that include vacuum and high temperature. The system is a non-contact motion system with non-moving cables. Contain multi carriers with different speeds and is practically maintenance-free.

Segmentation:

By Component

Linear Guides

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Others

Europe

UK

Germany

France

Others

Middle East and Africa

UAE

Israel

Saudi Arabia

Others

Asia Pacific

Japan

China

India

Australia

Others

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