Global Stepper Motor Market Size, Share, Development, Growth and Demand Forecast to 2022

Description:

Stepper motors are small in size, low voltage electrical motor. Stepper motor offers high torque at relatively low speed, and high precision at low cost. This unique benefit facilitates the low cost design of direct drive systems among many applications, such as industrial automation, owing to elimination of additional price and complication of gearboxes.

The global stepper motor market is driven by increasing demand of energy efficient and precise motion control. The growing level of automation, along with high expenditure on medical electronic product in economically emerging countries are among key growth catalysts for the market. The stepper motor market is facing stiff competition from servo motor, especially in high power, closed loop application. The demand for automation solutions in the packaging and labeling industry has grown significantly. The modern stepper motor integrated packaging machineries are more efficient, reliable and productive at a reduced cost, which is a trend witnessed in the global stepper motor market. Waterproof stepper motors have facilitated corrosion free operation of motors used in the food and beverage packaging industry.

The distribution channel plays a key role in the growth of the global stepper motor market. Although, most of the sales in overall motion control market are direct to the original equipment manufacturers, while distributors are very important for the vendors who have a broad product portfolio for variety of motion control applications. Ever since the economic slowdown period, the access of distribution channel in developed market remained a prominent hindrance for the increased penetration of stepper motors in the motion control market. The Japanese stepper motor manufacturers account for high market share in the global market. Japan earth quake and tsunami in 2011 badly affected the global downstream supply chain of the stepper motor market.

The stepper motor market in medical equipment industry is expected to witness the fastest growth during the forecast period. Applications such as raising and lowering a hospital bed needs stepper motors. Moreover, stepper motor offers constant rotational speed in ventilator system. During the recent years, stepper motors witnessed high demand from the manufacturing unit of X-ray machines, IV pumps, and blood analyzers. An application, such as oxygen concentrator uses stepper motor in fans for cooling. The compact size and low noise makes stepper motor preferred choice for medical applications.

Asia-Pacific accounted for about 45% share of the global stepper motor market in 2015. Europe is expected to be the slowest growing market of stepper motor during the forecast period, owing to lower industrial output along with downward migration of manufacturing industries.

Some of the major companies operating in the global stepper motor market include Nippon Pulse Motor Co. Ltd., Schneider Electric SE., ABB Ltd., Applied Motion Products Inc., Delta Electronics Inc., SANYO DENKI CO. LTD., National Instruments Corporation, Nidec Corporation, Oriental Motor Co. Ltd, FAULHABER Group, and Lin Engineering LLC. Over the last two years, Nidec Corporation has expanded its geographical reach and product portfolio through inorganic expansions. Whereas, Oriental Motor and SANYO DENKI CO. LTD., have expanded their product portfolio largely through organic expansion.

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