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Press Release

Home Appliances utilising DC Motors



Everyday Items that use DC motors

DC motors are utilised in every facet of daily life. Although DC motors are considerably smaller than other motors used in industrial automation or materials handling applications, they are just as strong and durable. They are therefore perfect for use in commonplace goods like home appliances.

To provide the most effective product for the consumer, brushless DC motors and PMDC motors, which are found in commonplace objects, must operate on demand and withstand prolonged use.

We highlight a few household situations where BLDC and permanent magnet DC motors are used, as well as the reasons why these motors are ideal for small applications.

Dishwashers

Dishwashers are used in countless homes all around the world to simplify life. Some dishwashers employ high voltage PMDC motors to power the pump, which has been demonstrated to increase the product's efficiency.

This is due to the fact that permanent magnet DC motors have the ability to optimise speed for maximum performance and are not reliant on the supply power's frequency to function effectively. Because they are a space- and money-saving alternative, PMDC motors are also widely used in dishwashers, which makes them easier to install in a home. PMDC motors may be easily modified for a range of applications, making them suitable for use in industrial dishwashers and other applications in numerous industries.

Air Conditioning Systems

Due to their powerful starting torque, DC motors are frequently utilised in air conditioning systems since they can take action more rapidly and begin chilling the room right away. Particularly BLDC motors require extremely minimal upkeep, extending the lifespan of the air conditioner and enabling it to run for longer periods of time. Brushless DC motors are excellent for this use since they are very silent due to the absence of brushes. For this reason, BLDC motors are frequently used in patient hoists and other hospital equipment.

Children's Toys

DC motors are the ideal motor choice for kid's toys. They require motors that are tough and incredibly durable because they are high-use objects that are frequently thrown around. Children's toys rarely require maintenance, regardless of the type of DC motor used—brushed or brushless. Additionally, DC motors are available in a range of voltages, allowing you to alter the toy's movement and speed. Because they may be modified to fit the application, they are especially beneficial for remote-control cars and toy trains.

Vacuum Cleaners

At maxon, we have a wealth of experience manufacturing premium PMDC motors for vacuums and other floor care tools. Although they are frequently employed in industrial settings, these kinds of DC motors are perfect for floor cleaning due to their affordability and small size. Contact maxon and let's talk about your requirements for the DC motor you need for your application.

For any home application, our expert team can develop and create custom brushless DC motors and permanent magnet DC motors. Regardless of your sector, get in touch to discuss your motor possibilities.

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The press release is available on the internet at: www.maxongroup.net.au

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The Swiss specialist for quality drives

maxon is a developer and manufacturer of brushed and brushless DC motors, as well as gearheads, encoders, controllers, and entire mechatronic systems. maxon drives are used wherever the requirements are particularly high: in NASA's Mars rovers, in surgical power tools, in humanoid robots and in precision industrial applications, for example. To maintain its leadership in this demanding market, the company invests a considerable share of its annual revenue in research and development. Worldwide, maxon has more than 3000 employees at nine production sites and is represented by sales companies in more than 30 countries.