

September 1, 2022

Press Release

What is A Worm Wheel Gearbox?



At maxon, we provide a variety of gearboxes in both standard and customised configurations. Worm wheel gears are among the most common types of gear, and worm wheel gearboxes are used in a variety of applications around the world. Utilising a worm wheel gear in an electric motor gearbox has advantages and disadvantages, and it works better in certain industries.

About worm wheel gearboxes

Worm wheel gearboxes, which employ a conventional style of gear with a toothed wheel, are used in conjunction with electric motors to modify the torque or output speed. The wheel, the part of gears most people are familiar with, and the "worm," a shaft with a spiral segment that engages the wheel during operation, are the two sections that give this sort of gear its name. These gear types function by transferring rotational energy from an electric motor to the worm, which then moves against the wheel and is propelled by the teeth. This then rotates the load. The type of gear utilised in these gearboxes might be inline or in a right angle orientation depending on the application needs.

Although there are many different materials that can be used to create this kind of electric motor gearbox, lubrication is still a concern. Because worm wheel gears slide, the lubricant is removed more rapidly. However, when you are choosing your gearbox, we are happy to discuss options with you to make it as efficient as possible.

Uses of worm wheel gearboxes

Worm wheel gears are one of the most widespread types of gear and are found in AC and DC motor gearboxes all over the world. Worm wheel gearboxes have the advantage of having a quick stop, making them ideal for systems like conveyors. Additionally, they frequently move in a single direction and lock up when the motion stops, so your conveyor is immobile while not in use.

Worm wheel gears are also present in the gearboxes of electric motors used in the building automation sector, especially in automatic doors. This is due to their hard stop mechanism. Regardless of your requirements, worm wheel gearboxes are a crucial component of motor and gearbox design due to their adaptability across industries, including materials handling.

Custom electric motor gearboxes

There are various factors to consider when selecting a worm wheel gearbox. Worm wheel gears are a good choice for usage in public areas because they are typically very quiet. The fact that they are extremely space-efficient and have a small design is the another key factor. To meet the needs of your industry, maxon electric motor gearboxes can be made to any size and specification. Contact us to talk about your gearbox options.

Our expert team can design and build custom gearboxes for any application or industry. At maxon, we pride ourselves on high quality and reliable motors and gearboxes. Contact us to discuss your electric motor gearbox requirements.

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Length of this update: 487 words

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.