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The patented revolution from MS-Graessner

TORUSGEAR - moving more on Mars and on Earth.

A space pioneer with both feet firmly on the ground. This aptly describes TorusGear, the totally new development in gearboxes from MS-Graessner. Because this revolutionary planar spiral gearbox feels completely at home on difficult terrain.

“Life on Mars” - an illusion? Since 22 November 2016, TorusGear has been helping to take a closer look there. The gearbox is steering the Mars camera CaSSIS for the first high-resolution images of the Red Planet, with a spectacular view of the surface. TorusGear ensures the high-precision rotation of the reflecting telescope. This unique planar spiral gearbox has a precise gear ratio of $i = 200:1$, and convinced the aerospace engineers immediately. The swivel mechanism consists of a hollow shaft mounted on two ceramic bearings and driven by the TorusGear, where the Torus gear wheel is an integral component of the hollow shaft.

The success story of the TorusGear is now being continued on Earth. With entirely terrestrial, tangible benefits for you. For example, the compact, backlash-free gear ratio of up to $i = 400:1$ in a single stage. Thanks to its extraterrestrial experience and requirements, the TorusGear also has significant installation space advantages. Its torsional rigidity and transmission precision are also out of this world.

One great advantage of the TorusGear is precisely the fact that it can be flexibly adapted to your requirements and wishes in difficult environmental conditions. And always offers a perfect solution. Turn our Martian skills to your advantage!