

PRESS RELEASE

Dettenhausen, August 2016

The Revolution among Miniature Gears: PowerGear Miniature

Revolution is a big word. But in this case it is more than justified. Because the new PowerGear Miniature gearbox is a small space sensation. Impressively small and incredibly powerful.

Forget everything you know about miniature gears. Dimensions, weight, precision – the new PowerGear Miniature sets new standards. Revolutionary standards.

1. The dimensions – nobody is smaller:

PowerGear Miniature has a sensationally small installation size: with an edge length of just 27 mm (smallest size), this gear unit is predestined for a large number of delicate applications.

2. The material – first-class:

This gear unit is the only one in this construction class not to have a plastic housing, but instead, a solid and extremely lightweight aluminium housing. The inner workings also harbour the highest material quality for a long service life, such as the case-hardened bevel gear tooth system.

3. The precision – almost impossible to beat:

PowerGear Miniature stands out due to its low backlash and high transmission accuracy, as well as the friction-locked, non-wearing shaft-and-bevel-gear fit. In addition, the assembly offers an optimised contact pattern, leading to uniform gear load.

4. The performance – phenomenal:

Performance is measured not only in terms of torque and rotational speeds. But they are important factors. Here, the input speed is 7,500 min^{-1} . And the nominal torques T_{2N} - depending on the installation size - are between 3.5 Nm and 16 Nm.

5. The extras – customised:

With all of MS-Graessner's expertise acquired over decades, we are able to offer customers individual solutions that are fully in line with their specific requirements.

6. The applications – extremely diverse:

As unique as PowerGear Miniature is, as varied are its applications in drive technology.

7. The energy efficiency – exemplary:

Due to its extremely high level of efficiency of 98%, these miniature gears are also particularly energy-efficient.