**Planetary gearboxes with high torque**

*Feldkirchen/Germany, March 25, 2019* – For applications that require a high torque, Nanotec offers new planetary gearboxes in two sizes and many reductions: the GP42 gearbox is designed for all motors with NEMA 17-flange as well as the DF45 external rotor motors from Nanotec.

The GP56 gearbox can be combined with all brushless DC and stepper motors in sizes NEMA 23 and 24 (56/60 mm). To increase efficiency and service life when subjected to high axial and radial loads, the GP56 is also available with a reinforced output bearing and planetary gears on needle bearings.

Both gearbox series are offered in one- and two-stage versions with a rated torque between 1.8 and 23.5 Nm. Their maximum gear backlash is 0.95°.

By using simulation-based design, the toothing, materials and hardening processes could be significantly improved. The high-torque gearboxes therefore achieve a considerably higher torque than gearboxes of comparable design. In addition, their modular structure enables fast and easy adaptation to individual customer requirements.

*Nanotec was founded in 1991 and is now among the leading manufacturers of motors and controllers for industrial automation and medical engineering. The company has been based in Feldkirchen near Munich/Germany since 2011. With some 200 employees in Germany, Bulgaria, the USA and China, Nanotec serves customers around the world.*

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