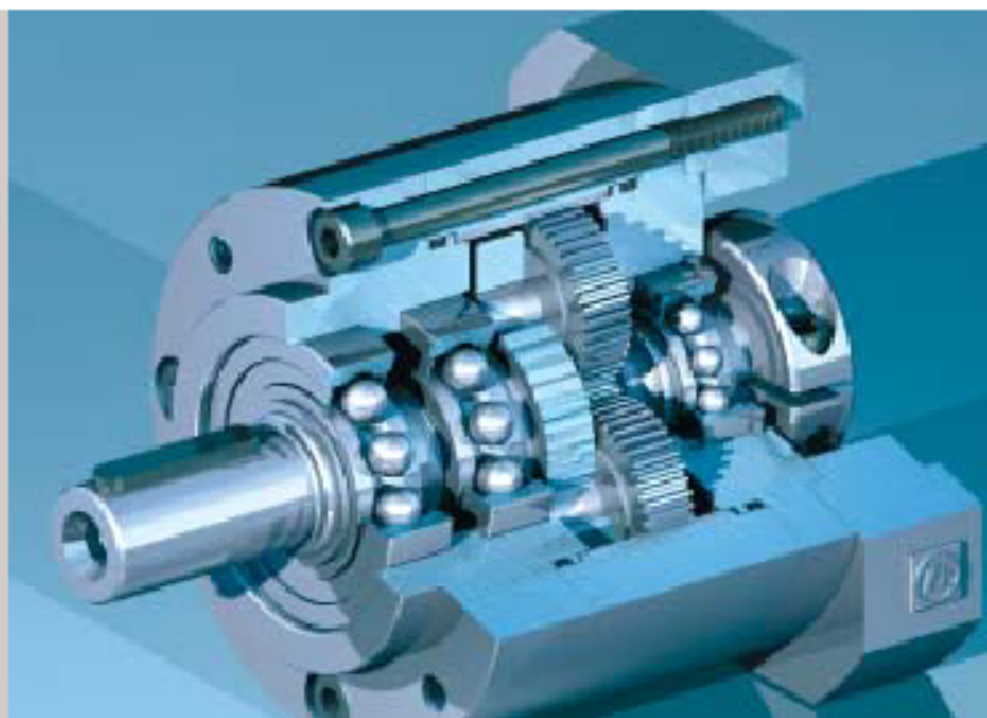


# ZF's Economy PGE Planetary Gearheads Cut OEM Servomotor System Costs

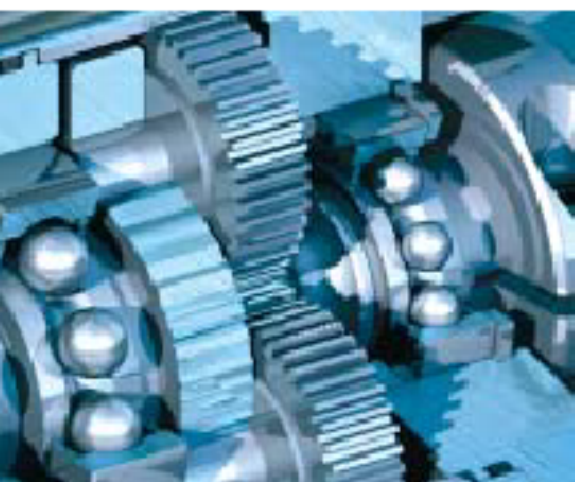
- Fit motor shafts down to 3mm diameter.
- Ratios between 3:1 and 1000:1.
- Nominal Torque capacities from 5Nm to 670Nm.
- Input speeds to 6000rpm.
- Up to 97% efficiency.
- Backlash to 10 arc minutes.



ZF's PGE gearheads provide the benefits of high reliability, precision and low noise running [ $\leq 70$ dB] from a design that includes hardened and optimised gearing geometry and high quality bearings. This construction ensures a long nominal service life, typically 10,000 hours, which is maintenance-free due to the lifetime provision of grease. Due to this method of lubrication PGE gearheads can be mounted flexibly in any orientation on a machine without the need to specify at the ordering stage.

A simple but highly effective compression coupling ensures correct gearbox alignment to the servomotor shaft, thus overcoming the problem of reduced bearing life due to excessive pre-loading. In addition, the ability of the smallest units in the PGE range to fit motor shafts of just 3mm diameter, means that the PGE range can also be used to cost effectively torque-up the performance not only of servomotors but also of fractional horsepower motors. The high efficiency units (97%) fit motors of any manufacturer and are available in ratios ranging from 3:1 to 1000:1.

*PGE planetary gearboxes are backed-up by the resources of one of the most respected manufacturers of driveline technology in the world. ZF Industrial is part of the worldwide ZF Group of companies with production centres, partners and representatives on every continent. In the industrial sector, ZF is at the forefront of developments, from individual units to complete systems solutions for all types of machinery and production units, including those used in robotic systems and the fast growing factory automation sector.*



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