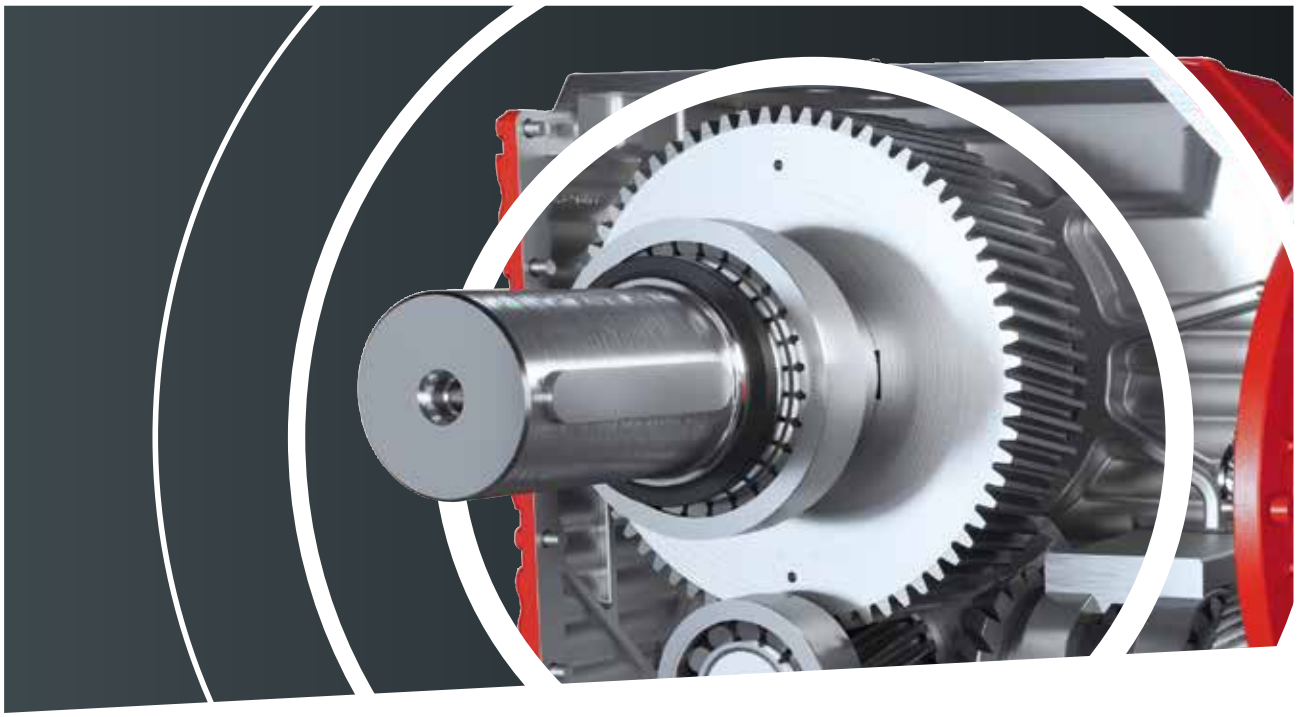
SEW EURODRIVE



HIGHER TORQUE

MORE POWER MORE RESERVES

For the large 7-series gear units

up to date

MORE TORQUE. MORE POSSIBILITIES.

11%

up to higher torque

THE BENEFITS

- **Increase in torque from +6% to +11%**
- **More reliability in use**
- **Your equipment is always at the cutting edge**
- **New project planning possible with smaller gear units**
- **No added costs**
- **Now available for F..157, R..167, K..157, K..167 and K..187**

Good news from our development team. By making small-scale optimizations and pushing known boundaries to the max, we have increased the torques for our large 7-series gear units. Are you using one of these gear units? In that case, you can now transport higher loads or increase your reserves for added reliability. If necessary, you can use a smaller size, thus saving space and money. And, best of all, you get increased torque at no extra cost.

Thanks to new FE calculations and optimizations made to a number of components, we can offer you our increased gearmotor torques in combination with F..157, K..167 and K..187. Naturally, our increased torques also comply with all necessary safety requirements. As a result, you benefit from a number of advantages. Firstly, the increased torques lead to higher service factors (SF), giving you more operational reliability. Secondly, when planning a new project, you can use a smaller size, if required. In addition to this, the new service factors increase the number of possible gear unit-motor combinations. Our gear units and gearmotors ensure you're always at the cutting edge, without generating extra costs for you.

Old and new torques compared

SIZE	M_{amax}	M_{amax} new	INCREASE
R..167	Up to 18 000 Nm	Up to 20 000 Nm	+11%
F..157	Up to 18 000 Nm	Up to 20 000 Nm	+11%
K..157	Up to 18 000 Nm	Up to 20 000 Nm	+11%
K..167	Up to 32 000 Nm	Up to 35 000 Nm	+9%
K..187	Up to 50 000 Nm	Up to 53 000 Nm	+6%

EXPERT VOICES

THREE QUESTIONS FOR

… the product management team: EIKO FILLER

What is the motivation behind the "up to date" initiative from SEW-EURODRIVE?
Essentially two factors are driving us in this campaign. We're constantly looking for new ways of anticipating our customers' needs and giving them made-to-measure solutions. And we're committed to playing our part in promoting sustainability and the responsible use of resources.

Why should users be interested in increased torque?
Increased torque is of interest to users because they can opt for a smaller size for new systems, which is an easy way of saving space for a number of applications. In pre-existing constructions, the gear units in question can simply be run at a higher torque load, which either gives the user more power or greater reserves for coping with overload.

What can I do to achieve increased torque?
New gear units will now be labeled automatically with the higher torque. Gear units for use in existing constructions can therefore be subjected to higher loads and/or offer greater reliability if the load is unchanged. In the case of new systems that have already been configured and calculated, mechanical engineers can update their calculations and, if necessary, select a smaller size.

… the development team: DR. MEINHARD SCHUMACHER

How exactly was this enhancement achieved?
SEW-EURODRIVE doesn't just continuously develop its products, it also optimizes design and configuration tools, always using the latest scientific findings. These are then also incorporated into existing products – as in this case – to the benefit of our customers.

Is the enhancement just a matter of redoing calculations?
No, not at all. Besides using the latest calculation methods, we've also optimized a number of components, such as shafts, bearings and housings, resulting in higher torques for the large 7-series gear units. Naturally, compatibility is maintained in its entirety for customers.

Does a higher torque reduce service life?
The strict design criteria for our gear units have not changed at all with the introduction of the new calculation methods – there are no drawbacks for customers at all. If additional design elements are also incorporated – such as our Premium Sine Seal oil seal and SEW GearOil – we can now even offer a 12-month extended warranty package.

up to date

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