Pressemeldung / Press Release

Versatile two-stage helical-bevel gear unit

Helical-bevel gear unit series supplemented in the upper power range

Bruchsal, Hannover Messe Trade Fair 2015: With its two-stage helical-bevel gear units, SEW-EURODRIVE offers exceptionally versatile and flexible drives. The four sizes can be configured with motors, adapters or input covers, depending on the requirements of the application. In addition, when combined with AC motors in energy efficiency classes IE1 to IE4 or synchronous servomotors, the gear units make the drives real energy-savers in every power range.

K..19 and K..29, the first two sizes of the two-stage helical-bevel gear unit, were introduced at the Hanover Trade Fair 2013. Two years later, two more sizes – K..39 and K..49 – are set to celebrate their premiere at this year’s fair. This will extend the upper power range of the two-stage helical-bevel gear unit series to include maximum permitted torques of 300 Nm and 500 Nm respectively. Combined with efficient asynchronous motors, powerful and cost-effective helical-bevel gear units from SEW-EURODRIVE can thus cover a power range from 0.12 kW to 7.5 kW.

Every application is different and every machine construction makes different demands on the drive technology used. Consequently, it is essential that the gear units can be configured as flexibly as possible for optimum fulfillment of the drive application requirements and can be integrated into the system design as compactly as possible. The two-stage helical-bevel gear units in sizes K..19 to K..49 are full members of the modular drive system of SEW-EURODRIVE. As such, they can be combined with numerous input components, such as covers, adapters, and asynchronous and synchronous motors, thus
enabling design engineers to ensure the optimum, functional design for their systems.

If an input shaft is required, for instance, the user has access to cover sizes designated AD1 to AD4 that are based on the power rating and are mounted on the gear unit. The customer can thus ensure the solution is perfectly tailored to his drive application. Moving up to the next cover size means that higher power ratings can be mounted and provides higher reliable input overhung loads.

The most striking feature of the adapters for mounting standard IEC and NEMA motors is their short lengths. The design of the coupling ensures quick, easy assembly/disassembly of the motor. This minimizes any plant downtimes and downtime costs. The ability to mount synchronous servomotors is becoming increasingly important for industrial plants with short cycle times and highly dynamic applications. The AQA and AQH motor adapters can be used to mount all popular synchronous servomotors.

However, the K..19, K..29, K..39 and K..49 helical-bevel gear units can also be combined effectively with SEW-EURODRIVE’s complete motor portfolio. This includes the standard asynchronous motors from the DRN (IE3) range, including the LSPM motor (IE4) and the synchronous CMP... servomotors. The electronic motor DRC... (IE4) is ideal from an energy efficiency perspective. With a gear unit efficiency of over 90%, it can reduce energy consumption significantly.

The gear units with foot mounting are available with three fastening strips as standard for easy integration of the drives in the customer’s system. The broad range of design variants with a variety of shaft diameters for both solid and hollow shafts, along with various flange diameters optimize the connection with the driven machine, even when space is at a premium. But it is not just machine manufacturers who will enjoy these advantages. Typical areas of application include all types of conveyor systems for the transport and logistics sectors and, for example, handling gantries or incremental launches and swiveling axes in manufacturing systems.
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Illustration “Zweistufige Kegelradgetriebe” belongs to this press release.

You can also find this press release at http://www.sew-eurodrive.com/presse

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