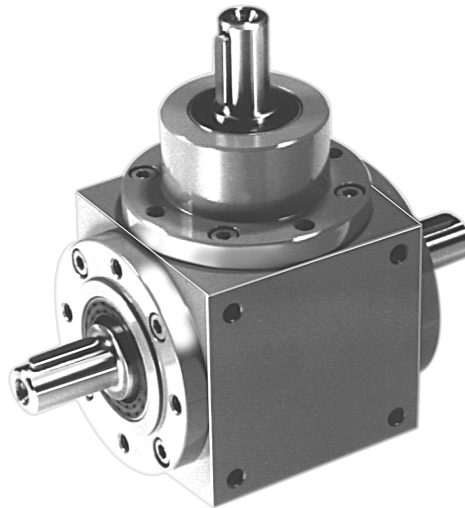




## Operating and maintenance instructions

### Bevel gear boxes KU/I, KUM



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## **Operating instructions**

### **- permanently lubricated gears**

These operating instructions will help you operate the KU/KUM drive correctly. Performance of the drives and the fulfillment of warranty claims depend on the customer following these instructions.

Before the drive was shipped, it was subject to strict tests and was properly packed. Before starting operation, check for transport damage. Report any damage to the transport company immediately.

## **Lubrication**

Permanently lubricated gears are factory filled with a synthetic lubricant requiring no further attention to lubrication. The units despatched without oil should be filled with the correct ISO Grade No. indicated on the nameplate. Drives that are not used immediately should be stored in the correct position in dry rooms.

## **Assembly**

Gears with protruding shaft ends should be set up on solid foundations or should be mounted as a flange drive directly on the machine to be driven. The shaft ends have to be aligned very carefully for quiet running and safety during operation. To compensate for small assembly errors, we recommend the use of elastic couplings. The couplings should be warmed and then mounted or attached with the aid of a D-centre and a bolt. Do not hammer them on! This will prevent damage to the tooth profiles, roller bearings and locking rings.

Slip-on gears can be directly attached to the shaft of the machine to be driven. They are axially attached with an end plate and bolt. For flange gears it is important that the attachment surface is at exact right angles to the machine shaft's axis. Otherwise the bearings will suffer too much stress and might be damaged. The reaction torque corresponding to the output torque can be compensated for with a torsion bar. The bar should be mounted on the gears' machine side in order to prevent additional bending stresses. Do not mount the gears directly on a foundation plate when the machine shaft is bedded near the gears.

## **Starting operation**

The drives have been closed for transportation, i.e. there is a cap on them. If the gears are to be bled, then the cap has to be removed and replaced by the bleeding filter supplied with them. Before starting operation, check whether the gears have been filled with lubrication.

## **Maintenance**

All KU/KUM drives require a minimum of maintenance. Only regular checks for leakage are required for gears with permanent lubrication.