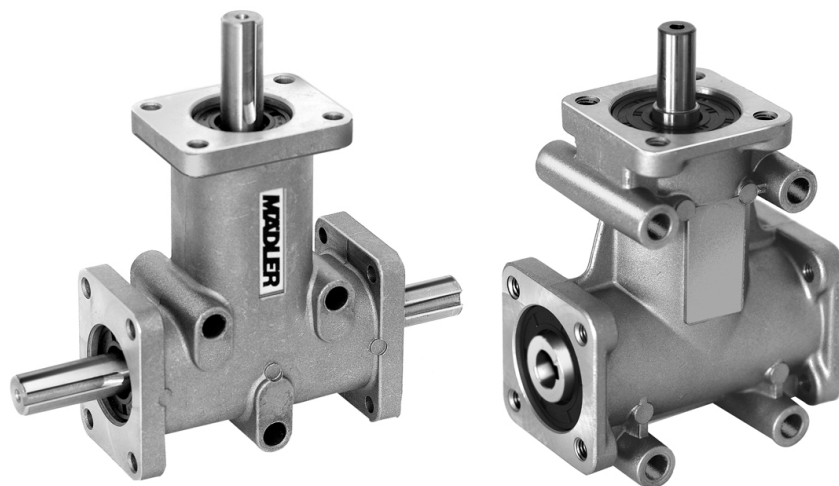




Operating and maintenance instructions

Bevel gear boxes DZA, DZR



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Operating instructions

- permanently lubricated gears

These operating instructions will help you operate the DZA / DZR 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 checked and properly packed. Before starting operation, check for transport damage. Report any damage to the transport company immediately.

Drives that are not used immediately should be stored in the correct position in dry rooms.

Lubrication

These permanently lubricated drives are factory filled with the correct type and quantity of lubricant, requiring no further attention to the lubrication. Refilling is only necessary, if a significant quantity is lost by leakage. In this case, please ask your responsible MÄDLER® branch for the correct ISO Grade No. and quantity.

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 exactly right angled 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. Please note: Normally, torsion bars are not used for this shape of gearboxes. They are not available from stock and have to be made as a customized part. 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

In condition like delivered, the drives are ready to use. There is no ventilation cap, filter or filler cap to be considered.

Maintenance

All DZA / DZR drives require a minimum of maintenance. Only regular checks for leakage are required for these gearboxes with permanent lubrication.