

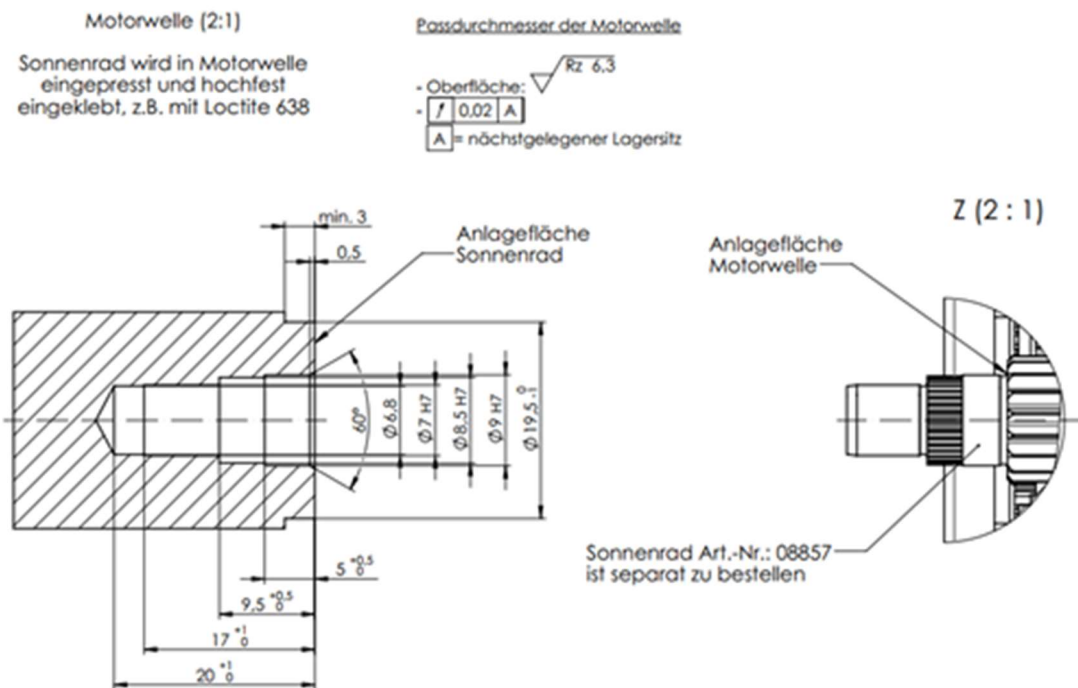
Connection- Motor - Gearbox

When assembling the DDP planetary gearbox with a corresponding electric motor, the following points must be observed:

The drive is provided by a motor and a shaft connected to it. The motor shaft is not supplied by DDP and is not part of the scope of delivery.

In principle, it is possible to request motor shafts from DDP, depending on geometry and production volumes.

The geometric data of the motor shaft can be found in the installation drawing (ID).



A sun gear, also referred to as a *pinion*, is required to connect the motor shaft to the gearbox.

The sun gear must be ordered separately from DDP. To maintain the full warranty coverage for the gearbox, only sun gears supplied by DDP may be used. The appropriate sun gear for the respective wheel hub gearbox is clearly specified in the installation drawing (ID). This information can be found in the lower left-hand section of the drawing.

The sun gear is press-fitted into the prepared motor shaft and additionally bonded using a high-strength adhesive, such as Loctite 638 or an equivalent adhesive. It is strongly recommended to press-fit the sun gear into the removed motor shaft in order to avoid loading or damaging the motor bearings.

When assembling the motor and gearbox, care must be taken to avoid damaging the gear teeth.

For the PGR 500 and PGR 700 series, sealing between the motor and gearbox is achieved either by means of a supplied flat gasket or, alternatively, by an O-ring. The relevant reference is the drawing entitled "**Motor Interface**".

All other PGR series are generally sealed using an O-ring.

For three-stage gearboxes, deviations in the sealing arrangement may occur. In such cases, the exact sealing configuration must be verified using the corresponding technical documentation.