

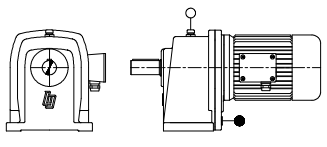
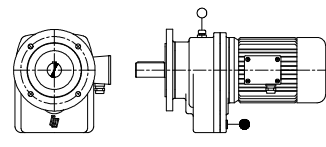
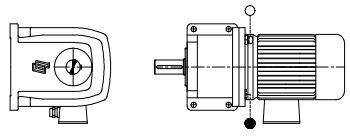
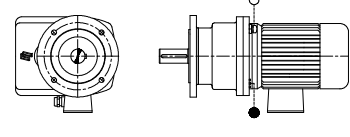
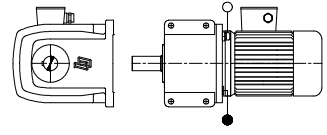
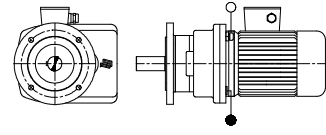
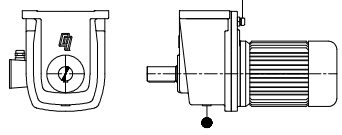
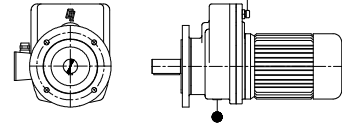
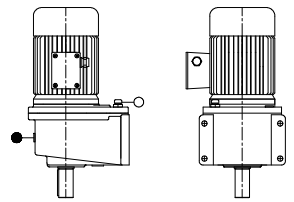
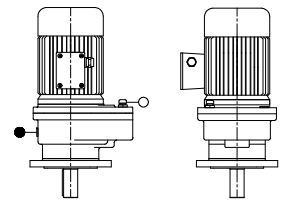
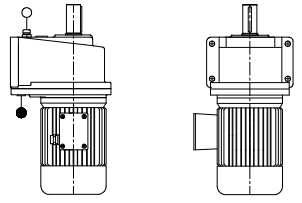
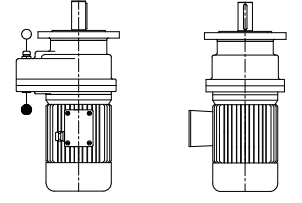
Assembly manual BEGE Motor Gearbox

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1.1 Mounting positions

The geared motor can be mounted in different positions. Every mounting position requires a specific position for the breather- and drain plug. Before starting to operate your geared motor it is necessary to mount the breather plug in the correct position. See table below.

	Foot mounting	Flange mounting	
B3			B5
B6			B5/6
B7			B5/7
B8			B5/8
V5			V1
V6			V3
	○ Ventilation plug	● Drain plug	

1.2 Changing the mounting position

It is possible to change the mounting position of the geared motor. Be aware of the following:

- When the mounting position is changed, it may be necessary to alter the amount of lubricant, the mounting positions for the vent plug and drain plug (see technical manual, chapter lubrication).
- Be aware of the remarks in the subsection placing the motor gearbox.

Assembly manual BEGE Motor Gearbox

1.3 Necessary tools and accessories

For mounting the gearbox you need in general the following tools and accessories:

- Socket wrench
- Draw-off accessory
- Washers and spacing rings
- Fastening materials for the drive elements

Remarks: Standardized parts are not included and are not part of the delivery.

1.4 Conditions for assembly

Check the following conditions before mounting the gearbox:

- The information mentioned on the name plate of the motor gearbox are in accordance with the mains voltage.
- The motor gearbox has not been damaged during transport.
- The temperature of the surroundings is in accordance with the lubrication table (see technical manual, chapter lubrication)
- The "standard" geared motor may not be mounted under the following conditions:
 - o Explosive environment
 - o Oil
 - o Acid
 - o Gasses
 - o Vapours
 - o Radiation
- The "special" geared motors need to be in accordance with the environmental conditions

Output shafts and mounting surfaces of flanges need to be cleaned from dirt, aggressive anticorrosive cleansings, etc. Use the standard cleansings you can buy in the stores. The cleansings may not come in contact with the oil-retaining ring. The cleansings can cause damage on the oil-retaining rings.

1.5 Placing the motor gearbox

The geared motor may only be mounted in accordance with the mounting position mentioned on the name plate. The mounting surface must be flat, vibration resistant and have torsion rigidity. The maximum deflection of the surface for foot mounting:

- Gearbox size \leq G44(0): maximum 0,25mm
- Gearbox size $>$ G44(0): maximum 0,5mm

Use for the fastening materials, like bolts quality 8.8 or higher.

When the mounting position is changed, it may be necessary to change the amount of lubricant, the mounting positions for the vent plug and drain plug (see technical manual, chapter lubrication and mounting positions).

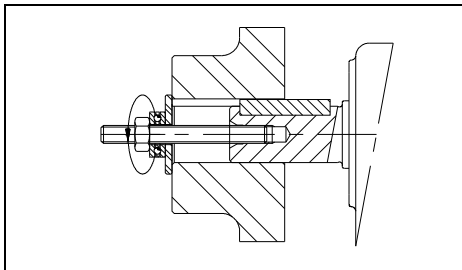
For applications in humid environments or placed outside, special geared motors can be delivered suitable for these applications.

1.6 Venting

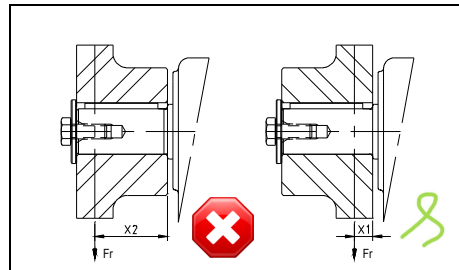
All geared motors are delivered with a breather plug for mounting in several positions. This plug is delivered together with the assembly manual in a small plastic bag. Depending on the mounting position of the gearbox, the breather plug must be mounted in the correct position which is shown in the subsection mounting positions.

1.7 Mounting the drive elements

Mounting the drive elements on the shaft of the geared motor can be achieved with a special tool which is mounted in the tapped hole of the shaft. This special tool consists of a threaded rod, nut, bearing and washer (see drawing 6.1). This way bearings, housing and shaft are not unnecessarily overloaded with sudden shock forces. It is also possible to heat the elements (max. 100°C) or use a lubricant to simplify the mounting.



Drawing 6.1 Special tool.



Drawing 6.2 Advise mounting.



To reduce the radial force on the bearings and shaft, the radial force must be mounted as close as possible to the housing (see drawing 6.2 Advise mounting)



Be aware! Drive elements can be sharp. To prevent injury the elements must be covered.

The drive elements must be mounted and aligned according to the specification of the supplier. Think about the minimum and maximum distances, alignment errors in the shaft and errors in the angle of the shaft.



Be aware! These elements will not tolerate overloads to the radial and axial forces., The maximum forces are mentioned in the catalogue "BEGE motor gearboxes".