

Installation and Maintenance Instructions Freewheel Type ASK

To avoid premature failure of the freewheel or possible machine malfunction, installation of the freewheel should be carried out by suitably qualified personnel and according to the following instructions.

STIEBER will not accept liability in cases of non-compliance with these instructions!

Description:

Freewheels of the ASK-design are roller type freewheels with individually spring loaded rollers.

The main components are: outer race, inner race, drive rollers, two roller bearings and two cover plates.

Torque transmission from the freewheel to the shaft and housing is via a press fit. ASK type freewheels will not accept axial loads. The freewheels are despatched grease lubricated.

Prior to Installation:

The freewheels should be unpacked and installed in a clean dry working environment.

The freewheeling direction should be checked prior to installation. If reversal of freewheeling direction is required, turn the unit through 180°.

The inner race should be fitted to a shaft of h6 or j6 tolerance.
The outer housing should be to K6 tolerance.

Installation:

Apply load to the inner and outer races simultaneously when installing the freewheel.

Avoid asymmetric loading of the unit during installation.

After Installation:

After installation, ensure the unit rotates smoothly in direction of freewheeling.

Lubrication and Maintenance:

ASK freewheels are despatched grease lubricated using Klüber Polylub WH2.

- Periodically check the lubrication, particularly if freewheel is operating above 80°C.
- If the ambient temperature is below -20°C or higher than +100°C please consult your STIEBER stockist.
- If an alternative lubricant is to be used the original grease should first be removed using a suitable flushing oil.

Lubricants containing slip additives such as Molykote and Graphite may inhibit the operation of the freewheel and are not recommended.

Recommended Lubricants:

	Ambient temperature				Grease
	-40°C to- 15°C	-15°C to +15°C	+15°C to +30°C	+30°C to +50°C	
	Operating temperature				
	-20°C to +20°C	+10°C to +50°C	+40°C to +70°C	+50°C to +85°C	
	Oil				
ISO - VG DIN 51519	10	22	46	100	
ARAL	SUMOROL CM10	SUMOROL CM22	MOTANOL HK46	DEGOL CL100T	ARALUB HL2
BP	ENERGOL CS10	ENERGOL CS22	ENERGOL CS46	ENERGOL RC100	ENERGREASE LS2
DEA	ASTRON HL10	ASTRON HL22	ASTRON HL46	ASTRON HL100	GLISSANDO 20
ESSO	NUTTO H10 SINESSO 10	NUTTO H22 SPINESSO 22	NUTTO H46 TERESSO 46	NUTTO H100	BEACON 2
FUCHS	RENOLIN MR3	RENOLIN DTA22	RENOLIN DTA46	RENOLIN MR30	RENOLIT LZR2
KLÜBER	CRUCOLAN 10	CRUCOLAN 22	CRUCOLAN 46	CRUCOLAN 100	POLYLUB WH2
MOBIL	VELOCITE No6	VELOCITE No10	VACTRA MEDIUM VG46	VACTRA HEAVY VG100	MOBILUX2
SHELL	MORLINA 10	MORLINA 22	MORLINA 46	MORLINA 100	ALVANIA G2
TOTAL	AZZOLA ZS10	AZZOLA ZS22	AZZOLA ZS46	AZZOLA ZS100	MULTIS 2

The ambient temperature is to be taken as a guide line. The operating temperature is determinant for the choice of the viscosity.

Corrosion inhibitor: Rivolta KSP

Time of protection: 6 to 12 months.

Recommendation: Prior to use, remove corrosion inhibitor using flushing oil.

Please refer to the 'Lubrication & Maintenance' section in our main catalogue.