




### Lubricants

Lenze gearboxes and geared motors are supplied ready for operation and filled with a lubricant appropriate for the drive and design in question. You must indicate the mounting position and design on your order in order to ensure that the correct amount of lubricant is supplied.

The lubricants that have been approved for Lenze drives are listed in the lubricants table.

### Lubricant table

	Lubricants in accordance with DIN 51517-3: CLP ISO 12925-1: CKC/CKD				
	CLP 460	CLP PG 460	CLP HC 320	CLP HC 220 USDA H1	CLP PG 220 USDA H1
For gearbox type GST/GFL/GKR/GKS	●		●	●	
GSS		●			●
Ambient temperature [°C]	0 to +40	-20 to +40	-25 to +50	-20 to +40	-20 to +40
Specification	Mineral-based oil with additives	Synthetic-based oil (polyglycol)	Synthetic-based oil (synthetic hydrocarbon/poly-alpha-olefin oil)	Synthetic-based oil (synthetic hydrocarbon/poly-alpha-olefin oil)	Synthetic-based oil (polyglycol)
Note		Cannot be mixed with other oil types		For the food and beverages processing industry	For the food and beverages processing industry. Cannot be mixed with other oil types
Changing interval	16,000 operating hours	25,000 operating hours	25,000 operating hours	16,000 operating hours	16,000 operating hours
After three years at the latest (oil temperature 70 to 80°C)					
	Fuchs Renolin CLP 460		Fuchs Renolin Unisyn CLP 320		
	Klüberoil GEM1-460 N	Klübersynth GH 6-460	Klübersynth GEM4-320	Klüberoil 4 UH1-220 N	
	Shell Omala 460	Shell Tivela S 460	Shell Omala Oil HD 320	Shell Cassida Fluid GL 220	Shell Cassida Fluid WG 220

Please contact us if ambient temperatures <-20°C or >40°C apply.