3. Maintenance of Bevel-helical Gearboxes type KS / KSH / MKS / MKSH

3.1 Changing the synthetic lubricant

N.B.!
With this gear type, different oil grades must be used according to the gear ratio

gear ratio i = 6 to 28,8→ synthetic gear oil ISO VG 150
gear ratio i = 33,6 to 48→synthetic hypoid oil
See more on this in the table below.

This gearbox is filled with a synthetic oil.

N.B.! Do not mix mineral and/or synthetic oil grades. The gearbox could be damaged if this is done.

3.2 Oil change interval

The first oil change must be carried out after approx. 1.000 operating hours. Further oil changes are necessary after every 10.000 operating hours. max. 3 years
please work with point 3.3

3.3 Procedure

Allow gears to warm up
Secure drive and machine from unintentional movement or switching on
Open drain plug. allow lubricant to drain out through drain hole
Close drain plug
Remove vent and fill with specified oil grade to the oil level mark or the centre of the sight glass
Replace vent

The table below specifies the required oil quantity.

3.4 Oil type according to parts list or equivalent oil from other manufacturers, miscibility must be checked.

3.5 Required oil quantities for all ratios

Gearbox size	**1**	**2**	**4**	**8**	**16**	**32**	**64**	**128**
Oil volume [Litres]	0,3	0,5	0,7	1,8	4	6,5	12	25

N.B.! The volumes stated are approximate values.
The sight glass or oil dipstick is definitive for the precise oil volume.