

Lubrication

Long-life synthetic oil is used in the DISCO variable speed drive, virtually eliminating the need for oil changing. The drive is oiled sufficiently before being shipped, thereby allowing it to be used as it is on delivery. As mixing oils and use of incorrect oil can have a considerable effect on the characteristics and life of the DISCO, great care should be taken with regard to lubrication.

■ Infinitely variable speed drive

Make sure to use the long-life oil specified by U.S. Tsubaki in the DISCO variable speed drive.

Specified synthetic lubrication oil: Dubney Alpha Drive P32 (Manufactured by Idemitsu Kosan)¹

This oil can be purchased from U.S. Tsubaki.

1. Oil change

Model	Oil change cycle
DK002 ~ DK037	20,000 hours or every 4 years ²
DK055 ~ DK075	5,000 hours or every year

¹ If you choose to use an oil different from the specified standard, use one with a viscosity which meets ISO VG32 and change the oil after the first 500 hours and every 2,000 hours thereafter (includes: MOBIL: DTE OIL 32, SHELL: TELLUS OIL 32, ESSO: TERESSO 32).

² The oil change cycle is based on less than 12 hours of operation per day. Change oil every 10,000 hours for operation conditions longer than this.

■ Speed reducer component

1. Oil and grease change

Oil and grease should be changed according to the table below.

Helical gear speed reducer	Oil	1st change: After 500 hours 2nd change onwards: every 2,000 hours
	Grease	Change every 20,000 hours

2. Suggested oil and grease

Part to lubricate	Ambient temperature	Viscosity	Oil Type	
			Mfg.	Brand
Helical Gear Speed Reducer	14°F ~ 104°F	Lithium type high grade grease No. 000	Nippon Grease	Nikdyte LYS No. 000
		Nippon Oil Mobil Oil		

2. Amount of lubrication

Amount of oil (ℓ) in the K Series infinitely variable speed drive

Model	Amount of oil horizontally mounted	
DK002	0.15	(5.1 oz.)
DK004	0.30	(10.1 oz.)
DK007	0.40	(13.5 oz.)
DK015	0.50	(16.9 oz.)
DK022	1.0	(33.8 oz.)
DK037	1.0	(33.8 oz.)
DK055	2.2	(74.3 oz.)
DK075	2.2	(74.3 oz.)

3. Amount of oil and grease

Speed Reduction Ratio

Model	Type of lube	1/2.5 • 1/5
DK002	Grease	0.25 lbs.
DK004	Grease	0.29 lbs.
DK007	Grease	0.71 lbs.
DK015	Grease	1.10 lbs.
DK022	Grease	1.40 lbs.
DK037	Grease	1.40 lbs.
DK055	Oil	* 1.6 ℓ
DK075	Oil	* 1.6 ℓ

* denotes the amount of oil (ℓ) for oil lubrication.

1ℓ = 1.057 quarts