

Cautions for storage

Whenever temporarily keeping the product, keep the following directions:

- ① Keep in a clean and dry place.
- ② Whenever storing outdoors or in a humid place, put in a box so that it does not directly contact rain or external air and cover with a vinyl sheet(Take a measure to prevent rust.).

■ Cautions for operation

■ When the reducer is delivered to you . . .

Eliminate the tape wound on the output shaft and wipe off the anti-rust-additives with diesel.

※ The key is annexed to the output shaft.(VRHF series only for an extended shaft)

※ Lubricant(grease) is already filled in the reducer.

It is available as it is.

■ Fixation & installation

- Avoid use in a place where rain or water drops directly.
 - In case of use outdoors or in a place where dust and water drops, consult in advance.
- Use under oily conditions in the air significantly impairs performance of the reducer. Consult prior to use.
- Install at 0°C ~40°C of surrounding temperature.
 - In case of use at temperature out of the above-mentioned range, contact the headquarters and consult on this.
- Firmly fix with a bolt onto a solid stand without vibration.
- Install in consideration of convenience in repair and inspection.

■ Cautions prior to starting the operation

- Unless designated otherwise specifically, for lubricant, a specified amount of grease is filled at factory release, so it is available as it is as soon as it arrives.
- At initial operation, check the rotating direction of the output shaft and then gradually apply load.

■ Cautions during operation

- Avoid overload.
- Ensure that input speed shall not be the number of revolutions beyond the specification.
- In the following cases, stop the operation and check the following points:
 - If temperature sharply increases
 - If an abnormal noise appears sharply
 - If the number of revolutions becomes unstable sharply
- These may be caused by the following matters, so rapidly respond to it or contact us.
 - Is it under overload condition?
 - Is lubricant insufficient or deteriorated, or is lubricant of other type used?
 - Is the axis, gear, and motor side damaged?
 - Is jointing with other machines poor?

■ Disassembly

- ABLE REDUCER is designed not to allow disassembly.

■ Warranty

- A warranty period is one year after the product is delivered to you.

■ Lubricant use

- The ABLE REDUCER is of grease-seal type in all models.
A specified amount of grease is filled at factory release, so you can use as soon as it is delivered to you.
 - It is impossible to exchange grease.
 - In case of use at 0°C ~40°C of surrounding temperature at usual times, consider this in advance.
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■ Daily check points

- Is reducer case temperature excessively high during operation? (Up to + 50°C is not significant.)
 - Is there an abnormal noise in the bearing, gear, etc?
 - Is there abnormal vibration in the reducer?
 - * Upon an abnormal phenomenon, immediately stop the operation and contact us.
 - Is there a lubricant leak?
 - * Upon an oil leak, contact us.
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■ Periodic check points

- Are there overload and abnormal rotation?
 - Are free, sprocket, and reducer assembling bolts loose?
 - Is there an abnormal condition in the electric system?
 - Checkup and repair of major parts
 - ※ Upon an abnormal condition, immediately stop the operation and contact us.
 - Oil leak
 - ※ Upon an oil leak, contact us.
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■ Scrapping

Whenever scrapping the ABLE REDUCER, classify the parts by material into industrial wastes as specified in the laws and regulations of self-governing bodies. Material of parts can be divided into four:

- ① Rubber parts : Oil seal, seat packing, rubber cap, seal used for bearing on the motor flange, etc.
- ② Aluminum parts : Motor flange, output shaft holder
- ③ Grease : Wipe off grease attached to parts with dry cloth and scrap into oils.
- ④ Iron parts : Parts other than those mentioned in the above