

2.5 Precaution of usage for B-BOX

Dismantlement of B-BOX is strictly prohibited.

Please do not use torque that exceeds Allowable transfer capability.

Avoid overhang load action to input and output shafts. If there is overhang and thrust loads to gear shafts of the HY-BOX, B-BOX (BS, BSH) and B-SET, it is necessary to design an extra preventable function. (Refer to Fig. 9)

Beware of shocks to shafts and body of BOX.

Installation precaution (For efficient use of B-BOX)

- ◇ To prevent damage to the gear shafts, gear shaft of B-BOX and mating shaft must be aligned at right angle before assembly.
- ◇ Before operation, it is necessary to confirm smooth rotation of shafts by hand.
- ◇ To prevent damage to the gear shafts, provide accurate parallelism and shaft center between gear shaft of B-BOX and mating shaft before assembly. (Accuracy of alignment $\phi 0.05$ or less is recommended)
- ◇ Beware of any waste objects being caught in the snap ring.

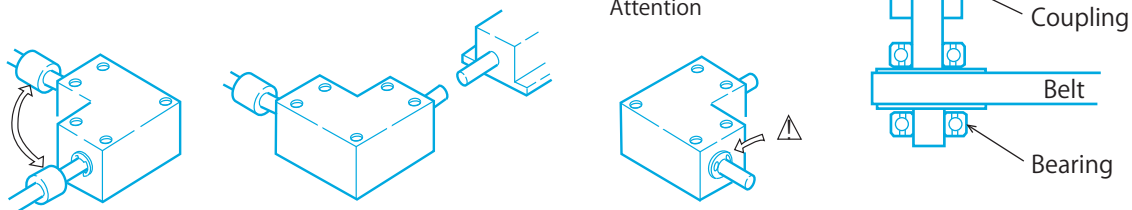


Fig. 9 Reference solution for overhang load

Beware of unusual sound during warm up test. If unusual sound is heard, stop operation and do not hesitate to contact us for solution.

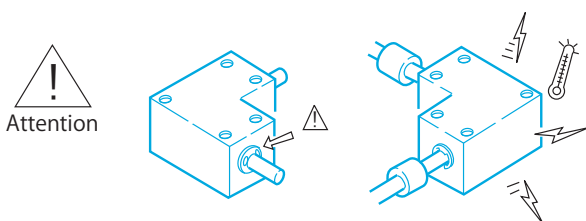
Using flexible coupling will reduce misalignment between shaft of B-BOX and mating shaft.

KG-B-BOX series is not completely sealed. Please do not use in environment with water, oil and chemicals.

When gear is rotating at high-speed at ratio 2:1, power to output shaft, noise level and temperature will increase but power transfer will decrease. The opposite is true at low speed.

During operation (For safety purposes, please pay attention to the followings below)

- ◇ Do not touch the gearbox, shaft and key during operation.
- ◇ Beware of waste objects being caught in the snap ring at the back of body.
- ◇ Stop operation and check for faults if there are any problems such as unusual sound and high temperature occurring from gearbox. Do not start the machine until the faults has been cleared.



Precaution of additional works

(Take note to be careful to prevent loss of function when making additional machining works to B-BOX)

To avoid damage to B-BOX, please do not hesitate to contact us for more details.

Before additional machining, ensure that bearing portion is covered, so that waste objects will not contaminate it.

Beware of shaft deformation when doing additional machining works on the bearings.

Additional machining to body of B-BOX is strictly prohibited as it may damage the internal functions.