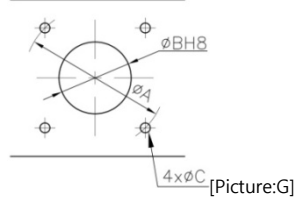
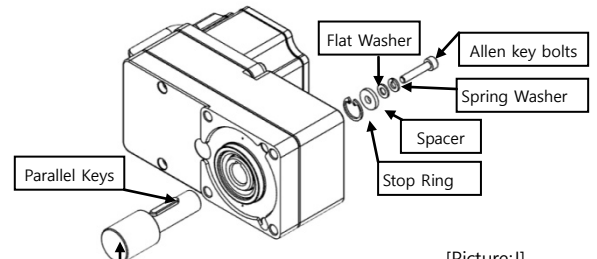


[Picture:F]

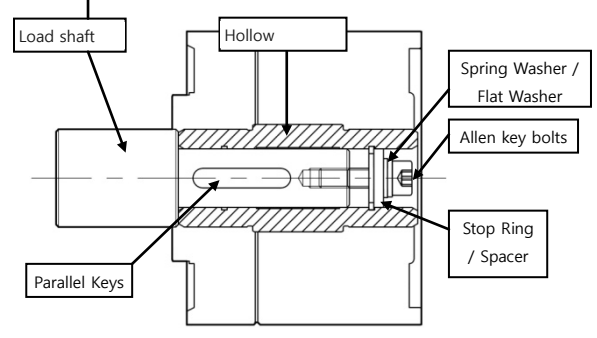
Mounting Hole dimensions:Front



■ If you have a staircase to the load axis
 •Fixing method using a stop ring for holes
 Halls spacer ring to stop, flat washers, spring washers, please use the hex wrench to tighten the bolt.



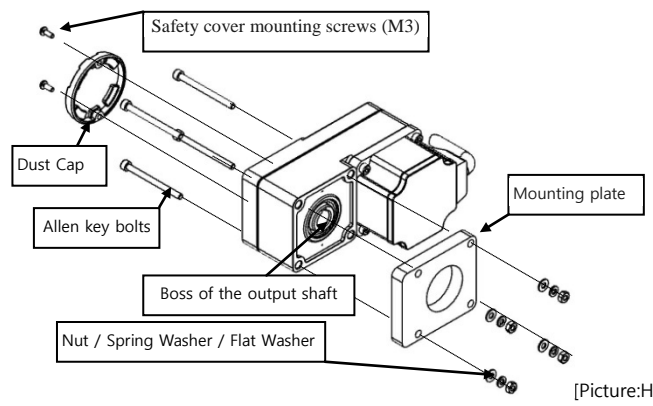
[Picture:J]



[Picture:K]

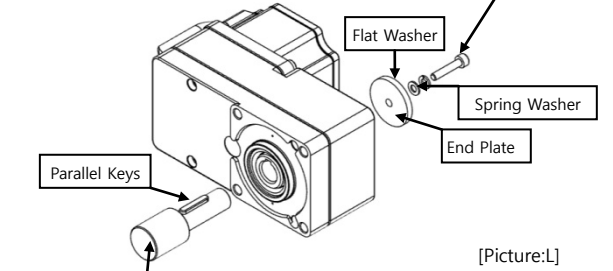
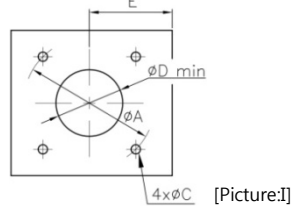
•Affixing method using end plate
 Flat washer on the end plate, using spring washers Please tighten the hex bolts.

■ Using the rear side as the mounting surface

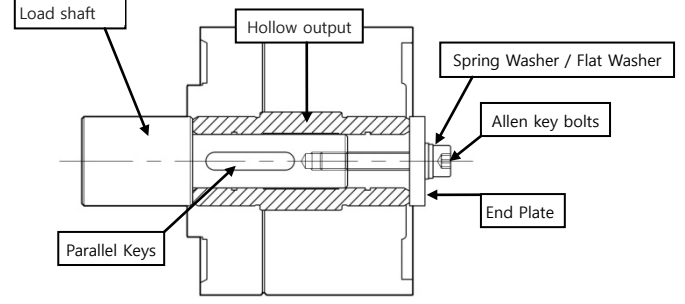


[Picture:H]

Mounting Hole dimensions:Rear



[Picture:L]



[Picture:M]

■ Important
 Dust caps supplied can not be mounted because the interference in the hexagonal bolts
 Please provide a protection against the rotating part of the customer side.

■ Important

Please ensure that if you are installing from the rear mounting plate and motor exceed the 'E' portion size to avoid interference.

Mounting hole dimensions (mm)

Model Name	ϕA	$\phi B H 8$	ϕC	ϕD	E
K6H□BTH	70	$34^{+0.039}_0$	5.5	25	29
K8H□BTH	94	$38^{+0.039}_0$	6.5	30	39
K9H□BTH	104	$50^{+0.039}_0$	8.5	35	44
K10H□BTH	120	$58^{+0.039}_0$	8.5	42	57

[Table:3]

* □ in the model names indicates a number representing the gear ratio.

■ Installation of the load

- When mounted on a hollow output shaft of gear head shaft load Please match the center axis of the load shaft and hollow shaft.
- The hollow output shaft key is grooving.

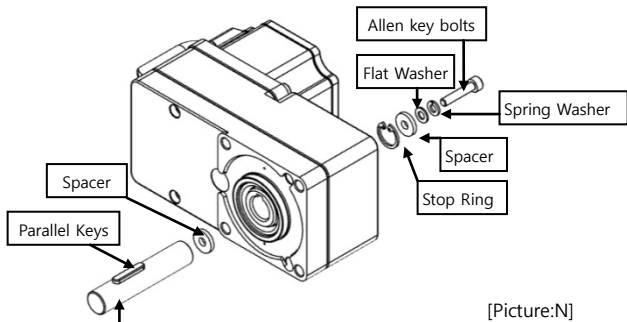
Please key in the load shaft parallel to the fixed part of the key to the grooving.

The load shaft tolerance is recommended [h7].

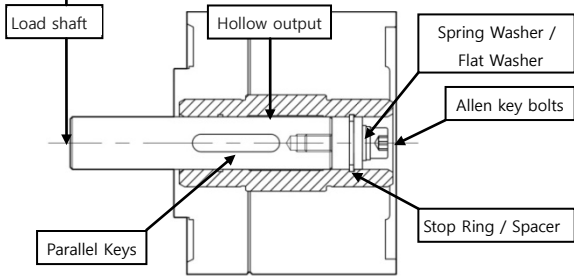
- If the shock caused by frequent or large instantaneous stop-overs hangers (hanging) loads large, fixed to the end plate, please use the load in two axes. Please see the details of the method used to secure the end plates.

■ If there are no stairs to the load axis

Axle load even when using a spacer, spacer ring to stop, flat washers, spring washers, please use the hex wrench to tighten the bolt.



[Picture:N]



[Picture:O]

Recommended load shaft installation dimensions (mm)

Model Name	Hollow shaft diameter(H8)	Recommended tolerance of load shaft (h7)
K6H□BTH	$\varnothing 12^{+0.027}_0$	$\varnothing 12^0_{-0.018}$
K8H□BTH	$\varnothing 15^{+0.027}_0$	$\varnothing 15^0_{-0.018}$
K9H□BTH	$\varnothing 20^{+0.033}_0$	$\varnothing 20^0_{-0.021}$
K10H□BTH	$\varnothing 25^{+0.033}_0$	$\varnothing 25^0_{-0.021}$

[Table:4]

Model Name	Nominal diameter of retaining ring	Applicable bolt	Space thickness	Outer diameter of stepped shaft (ØD)
K6H□BTH	Ø12	M4	3	20
K8H□BTH	Ø15	M5	4	25
K9H□BTH	Ø20	M6	5	30
K10H□BTH	Ø25	M8	6(3)	40

* □ in the model names indicates a number representing the gear ratio. [Table:5]

■ Important

If you are attached to a hollow output shaft, the shaft load, please do not damage the output shaft or hollow shaft receiving portion.

- Please apply grease (grease molybdenum, etc.) on the load shaft and hollow output shaft inner surface to prevent heat damage.
- Please do not output, or modifications hollow shaft machining. If you have a damaged shaft damage given to the receiving portion of the gear head.
- If the motor receives an overhung load, it is recommended that the load be affixed using one of the installation methods explained under "Stepped load shaft".

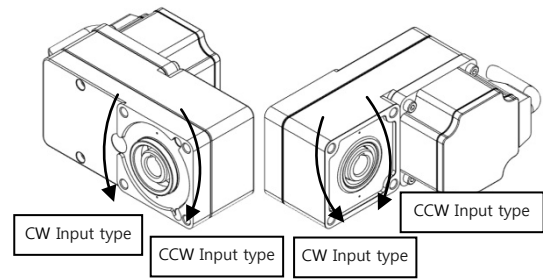
Notes on use

- Use the gearhead in an ambient temperature between 0 to +50°C and at a humidity of 85% or less.
- Please avoid the place or places where water or oil in direct sunlight.
- vibration, shock, or place heavy dusty places, flammable gas, where Avoid the generation of corrosive gases.

■ Gearhead output shaft rotation direction

Hollow shaft rotation direction of the gear head is different if viewed from the rear with the gear when viewed from the front of the head.

• Viewed from front • Viewed from rear



[Picture:P]

• Maximum allowable torque

The output torque of the gear head is in proportion to the reduction ratio, but the magnitude of the load torque applied to the gearhead by the shaft material or other condition value is limited.

This is called the maximum allowable torque and can be defined by the size reduction ratio of gear head.

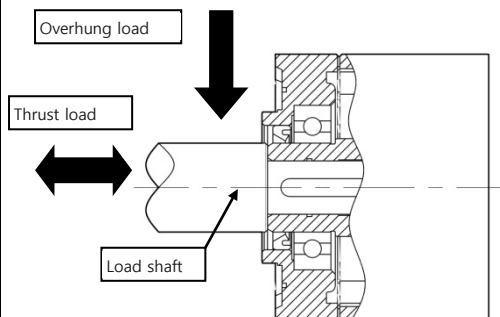
Please use within the allowable torque corresponding to the gear ratio.

• Permitted overhang load and allowable thrust load

The load applied perpendicular to the gearhead output shaft is referred to as an overhang load.

A load applied in the axial direction of the output shaft is known as the thrust load.

Related to the life cycle of the product, please be careful not to exceed the allowable overhang load and allowable thrust load in the table below.



[Picture:Q]

Allowable overhung load and allowable thrust load

Model Name	GearRatio	Allowable overhung load (N)		Allowable thrust load (N)
		Distance from hollow shaft gearhead mounting surface		
		10mm	20mm	
K6H□BTH	5,10	450(410)	370(330)	200
	15~200	500(460)	400(370)	
K8H□BTH	5,10	800(730)	660(600)	400
	15~200	1200(1100)	1000(910)	
K9H□BTH	5,10	900(820)	770(700)	500
	15,20	1300(1200)	1110(1020)	
	30~200	1500(1400)	1280(1200)	
K10H□BTH	5,10	1230(1130)	1070(990)	800
	15,20	1680(1550)	1470(1360)	
	30~100	2040(1900)	1780(1660)	

[Table:6]

1. □ in the model names indicates a number representing the gear ratio.

2. The allowable overhang load when the dimensions of the motor shaft rotation speed 3000rpm. / () is the value at 4000 rpm.

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