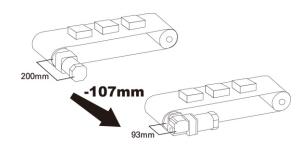
Product Features

1. Space saver

Space saving is possible because motor can be assembled rectangularly



※ In case of mounting gear ratio 18:1 to K9IP90F□

2. Offering a wide range

20 kinds of wide range from 3 up to 180 gear ratio is supplied. You can choose optimum gear ratio like parallel gearhead. Max allowable torque is same as parallel gearhead.

3. Costs Saving

BRH gearhead contributes components cost saving, assembly process number saving by removing connected components.

[Parallel axis Gearhead] [Hollow Shaft type Gearhead] **GEARHEAD** Parts cuts Connected COUPLING MOTOR MOTOR Space saving

Item name and kind

■Model name coding

K 9 P 180 BRH (1) 2 (3) (4)

	Gearhead Installation size + PINION TYPE							
1)+2	8G:80mm (G)GENERAL 9P:90mm (P)POWERFUL							
3	Ratio 180 (180:1)							
4	I	BRH: Right Angle Gearhead · Hollow Shaft type BRS: Right Angle Gearhead · Solid Shaft type						

kind

Hollow Shaft typ	e (BTH)	Solid Shaft type (BRS)				
Gearhead Model	Ratio	Gearhead Model	Ratio			
K8G□BRH	3~180	K8G□BRS	3~180			
K9P□BRH	3~180	K9P□BRS	3~180			

Specification

		Maximum	Permissible ove	Permissible			
Model	Ratio	permissible Torque (N.m)	10mm from shaft end	10mm from 20mm from			
K8G□BRH	3~180	8	250	220	100		
K9P□BRH	3~180	20	560	500	250		
K8G□BRS	3~18	8	100	150	100		
NoGLIDRO	25~180	0	200	300	100		
K9P□BRS	3~18		250	350	200		
	25~180	10	300	450	200		

^{*}Allowable overhung load in BRH type is distance value from flange surface

Transfer Efficiency of the Gearhead

Ratio)	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180
K8G□BRH	Rated		40	Э%	50%				60%												
K9P□BRH	Rated		50% 68%				3%			60%							50%				
K8G□BRS	Rated	50%									68%										
K9P□BRS	Rated	68%											60%					50%			

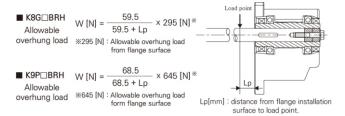
^{*}The code in □ of gearhead name is for gear ratio.

RIGHT ANGLE GEARHEAD

Allowable Overhung load calculation

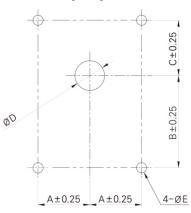
Allowable overhung load which is not supporting load shaft with bearing unit is as below.

(This product is most complicated in overhung load.)



Installation method for BRH Type gearhead

■ Mounting flange and dimensions



Model	Bolt	Installation holes dimensions								
Model	size	Thickness of flange	А	В	С	D	Е			
K8G□BRH	M5	9	28	55	25	Ø16	Ø5 . 5			
K8G□BRS	CIVI	9	20	55	20	Ø35	0.0			
K9P□BRH	M8	12	30	67	33	Ø18	Ø8.5			
K9P□BRS	IVIO	12	30	07	. J.J	Ø35	د . ه س			

 \times The code in \square of gearhead name is for gear ratio.

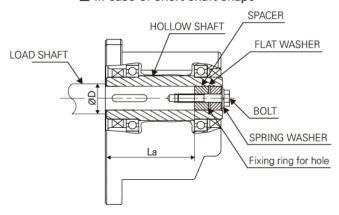
■ Recommended Installation dimension of load shaft

Example

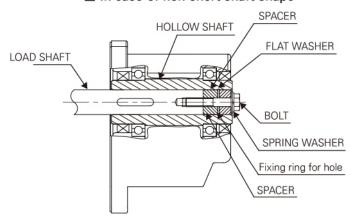
(Install as following picture according to shaft shape)

- When installing load shaft to hollow shaft, adjust center of hollow shaft and load shaft.
- There is key way in hollow shaft.
- Also there is key way in load shaft and fix with key.
- H7 is recommended as load shaft tolerance.
- •In case of high impact by frequent instant stop and high overhung load, Short load shaft is recommended.

■ In case of short shaft shape



■ In case of non short shaft shape



*Please put safe cover after inserting load shaft.

Unit: mm

Item	K8G□BRH	K9P□BRH
Inner diameter of hollow shaft (H8)	Ø15 ^{+0.027}	Ø17 ⁺ 8 ^{.027}
Diameter of load shaft (h7)	Ø15 _0.018	Ø17 _0.018
Diameter for hole fixing ring	Ø15 C Type fixing ring	Ø17 C Type fixing ring
applicable bolt	M5	M5
Thickness of spacer	4	4
Outdiameter D of short load shaft	25	30
La dimension of short load shaft	58~60	68~70

Unit: mm

^{**}Do spacer thickness as dimension of table. Exceeded dimension can't put safe cover by bolt coming out. **Fixing Ring, Spacer, Bolt to install load shaft are not attached. Please arrange them by yourself.