

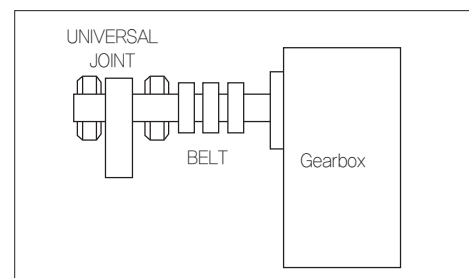
D Gearbox

Technical Data of Gearbox

- If the motor operates with the calculated overhung load exceeding the maximum allowable value in the below table, the output shaft may bend and fatigue deformation may occur due to the repeated load. So consider it and take care in sizing.

Model	Gear Ratio	Maximum Permissible Torque (kgfcm)	Permissible Overhung Load (kg)	Permissible Thrust Load(kg)
6GBD □ MH	3 ~ 18	1~7	6	3
	25~250	7~30	15	
7GBK □ BMH	3 ~ 18	1~18	10	4
	20 ~ 200	5~50	20	
8GBK □ BMH	3 ~ 18	2~46	12	5
	20 ~ 360	13~80	24	
9GBK □ BMH	2 ~ 18	4~42	30	10
	20 ~ 200	36~100	37	
9PBK □ BH 9PFK □ BH	2 ~ 10	4~70	45	15
	12.5 ~ 20	22~126	52	
	25 ~ 200	40~200	60	
9HBK □ BH/9HFK □ BH	3 ~ 200	9~300	55	20
10UBK □ BH	3 ~ 60	45~400	55	
	90 ~ 180	400	65	—
8WD □ BL/BR/BRL	10 ~ 18	8~42	8	
	25 ~ 60	16~60	15	—
9WD □ BL/BR/BRL	10 ~ 18	20~115	20	
	25 ~ 60	43~122	25	—
9WHD □ -030	5~80	13~205	100	
9WHD □ -040	50 ~ 100	230~350	170	—
10WHD □ -040	5 ~ 40	65~395		
9HC □ □	15~60	60~656	220	—
	80~240	320~1800	320	—
10HC □ □	15~60	200~1067	280	—
	80~240	1067~3000	380	—

- In case the calculated overhung load value exceeds the allowable value above, please set up the structure of the motor as shown in the picture to withstand the overhung load.
- Also, if a load should be directly imposed on the output shaft, please place the load as near to the gearbox as possible to avoid the one-sided load.
- In case a helical gear or a worm gear is employed as an output delivery mechanism, make sure not to exceed both the overhung load and the thrust load simultaneously.



Backlash Noise of Gearbox

Operating Noise of Gearbox

The backlash noise can be indicated by operating noise value. DKM Gearbox's operating noise is like below.

Frame Size	Limit of Operating
70mm	40dB
80mm	42dB
90mm	49dB

Reference

- Operating noise value is measured at a distance of 1m from the side of the gearbox.
- dB (decibel) is a unit of measurement which is used to indicate how loud a sound is.
- Level of operating noise (Ref. value)
 - 20dB** --- The sound of shaking leaves
 - 30dB** --- The sound in suburb of city in night time
 - 40dB** --- The sound in a silent park
 - 50dB** --- The sound in a silent office