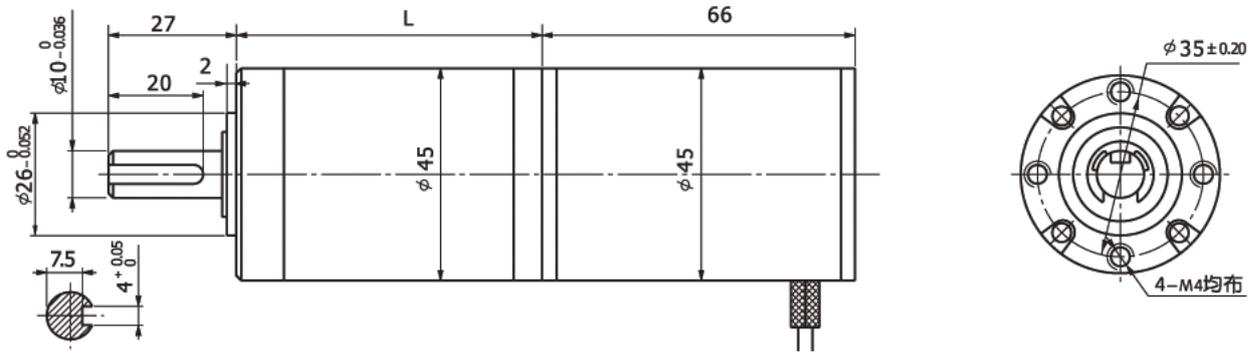


**Brief Introduction:**

1. Permanent Magnet DC motor + Planetary gearbox. It can turn in both CW and CCW directions. The speed is adjustable.
2. To match the motor diameter which is  $\varnothing 45\text{mm}$ , the gearbox is also made to  $\varnothing 45\text{mm}$ .
3. Lead wire coming from the rear side is also available.
4. Max. permitted short-time torque is **100Kg.cm = 9.8N.m**



**Outline Dimensions :**



**Performances of the PMDC Motor before Gear Reduction :**

Motor Model	Rated Voltage	No Load		Rated Load				At Stall	
		Speed	Current	Speed	Current	Torque	Output P.	Torque	Current
	(VDC)	(rpm)	(A)	(rpm)	(A)	(g.cm)	(W)	(g.cm)	(A)
DC4568-1230	12	3000	0.50	2400	1.6	430	10	1760	5.4
DC4568-2430	24	3000	0.25	2400	0.8	430	10	1760	2.7
DC4568-2440	24	4000	0.35	3200	1.0	430	14	2150	3.0

**Performances of the Geared Motor after Gear Reduction :**

Gearbox Model / Motor Model	Reduction Ratio	3.71	5.18	14	19	27	51	71	100	139	189	264	369	
		Number of Gear Trains	1	1	2	2	2	3	3	3	3	4	4	4
		Gearbox Length (mm)	51.5	51.5	51.5	51.5	51.5	64.5	64.5	64.5	64.5	74.5	74.5	74.5
45PG100K□G10 / DC4568-2430	No Load Speed (rpm)	809	579	214	158	111	59	42	30	22	16	11	8	
	Rated Speed (rpm)	673	482	178	130	92	49	35	25	19	13	9	7	
	Rated Torque (Kg.cm)	1.53	2.04	5.5	7.4	10.2	18.4	26.5	36.7	51	66.3	93.8	100	
	Max. Short Time Torque (Kg.cm)	15	15	61	61	61	153	153	153	153	306	306	306	
45PG100K□G10 / DC4568-2440	No Load Speed (rpm)	1080	770	285	210	148	78	56	40	28	21	15	10	
	Rated Speed (rpm)	862	617	228	168	118	62	45	32	24	17	12	9	
	Rated Torque (Kg.cm)	1.53	2.04	5.5	7.4	10.2	18.4	26.5	36.7	51	66.3	93.8	100	
	Max. Short Time Torque (Kg.cm)	15	15	61	61	61	153	153	153	153	306	306	306	

- ✚ In the gearbox model, "□" refers to the gear reduction ratio, "G10" means the shaft diameter is  $\varnothing 10\text{mm}$ .
- ✚ Gearbox Model / Motor Model = Complete model.
- ✚ This catalog listed just the typical model(s) of this series of geared motors. The motor speed can be adjusted to any from 2000rpm to 28000rpm so that the rated torque & speed would be changed. But we strongly recommend the motor with a speed of 2000-3000rpm because this is the best point of a DC motor which can give best efficiency, long lifetime & less noise.