

Specifications

Rating Table (*1)

Model Code	Ratio Code	Ratio	Rated Torque (To) N-m (Kgf-m)	Rated Output Speed (No) r.p.m.	Allowable Torque		Allowable Output Speed (*2)		Backlash arc.min	Inertia Moment I (I=GD ² /4) Input Shaft Equivalent (*3) Kg-m ²	Mass (Kg)
					Acceleration/Deceleration Torque N-m (Kgf-m)	Momentary Maximum Torque N-m (Kgf-m)	Continuous Operation r.p.m.	Intermittent Operation r.p.m.			
GH7	11	461/41	69 (7)	50	206 (21)	480 (49)	150	270	6	0.440 x 10 ⁻⁴	8
	21	21								0.233 x 10 ⁻⁴	
	31	153/5								0.173 x 10 ⁻⁴	
GH17	11	11	167 (17)	50	500 (51)	1166 (119)	150	270	6	1.751 x 10 ⁻⁴	15.5
	21	21								0.960 x 10 ⁻⁴	
	31	31								0.806 x 10 ⁻⁴	
GH24	11	11	235 (24)	50	706 (72)	1646 (168)	150	250	6	1.410 x 10 ⁻⁴	15.5
	21	21								0.618 x 10 ⁻⁴	
	31	31								0.444 x 10 ⁻⁴	
GH40	11	419/39	392 (40)	50	1176 (120)	2744 (280)	150	250	6	0.711 x 10 ⁻³	35.5
	21	21								0.451 x 10 ⁻³	
	31	723/23								0.219 x 10 ⁻³	
GH100	21	20.375	980 (100)	50	2942 (300)	6865 (700)	65	135	10	1.68 x 10 ⁻³	90
	31	31.4								1.31 x 10 ⁻³	

Note:

*1. The rating table shows the specification values of each reduction gear.

*2. The allowable output speed may be limited by heat depending on the operation rate.

If you use this product with the operation rate per cycle exceeding 50% or allowable output speed during continuous operation, contact us.

*3. For the inertia moment value, both the reduction gear and the input gear are taken into consideration. This, however, does not include the inertia moment of the input spline.

Capacity of Main Bearing

Model Code	Allowable Moment (Mo) N-m (Kgf-m)	Maximum Thrust Load (W) N (Kgf)	Dimension α1	
			Flange type mm	Shaft type mm
GH7	460 (47)	1372 (140)	133.3	155.3
GH17	804 (82)	1960 (200)	156.9	200.1
GH24	843 (86)	2940 (300)	152.1	211.1
GH40	1823 (186)	2940 (300)	198.1	277.1
GH100	4900 (500)	5586 (570)	262.0	-

Load moment

$$Mc = \{ W_1 \times (\alpha_1 + L_1) + W_2 \times L_2 \times 10^{-3}$$

$$Mc \leq Mo$$

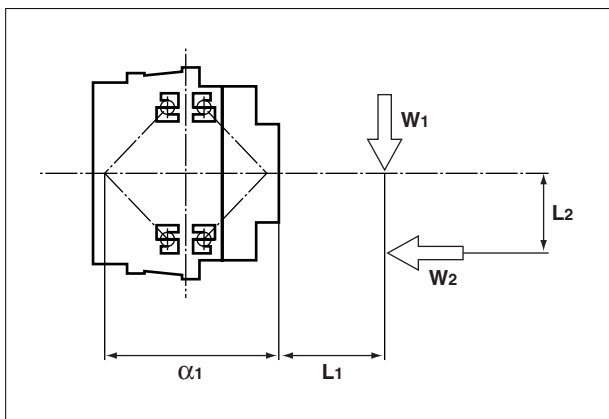
Mc : Load moment (N-m)

W₁, W₂ : Load (N)

(α₁ + L₁) , L₂ : Distance to the point of load application (mm)

L₁ : Distance from the mounting surface of the output shaft to the point of load application (mm)

Flange Type External Load Diagram



Shaft Type External Load Diagram

