

GT-STEP**Index Gearmotor**

GT-STEP

Index Gearmotor

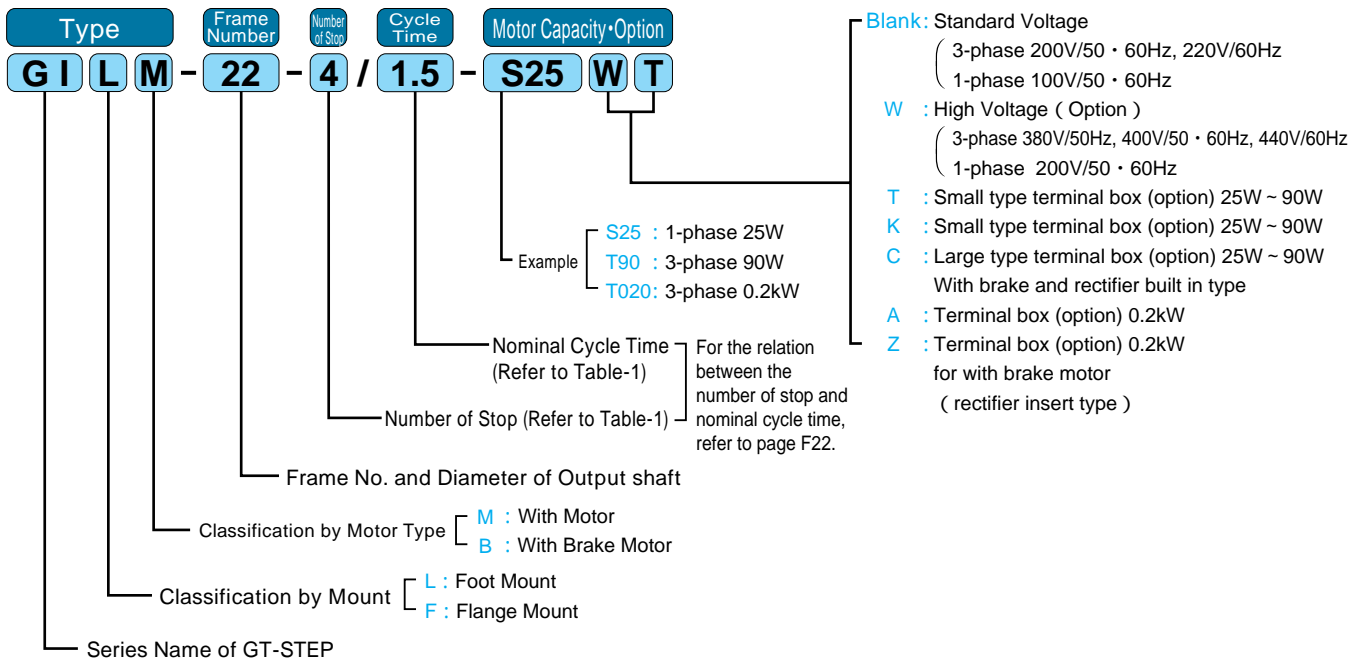
Motor Part	Number of phase	3-Phase	1-Phase
	Capacity	25W ~ 90W, 0.2kW	25W ~ 90W
	Power Source	3 Rated Power Source 200V 50/60Hz, 220V/60Hz	100V 50/60Hz
	Insulation Classification	Class E(Class B for 0.2kW)	Class E
	Starting Method	Direct start	Capacitor Operation
	Protective cooling Method	Totally Enclosed fan-cooled (Totally Enclosed only for 25 ~ 90W without brake)	Totally Enclosed fan-cooled (Totally Enclosed only for 25 ~ 50W without brake)
	Number of Pole	4	
Speed Reduction Part	Reduction Method	Helical Gear and Geneva Gear	
	Lubrication	Grease Lubrication(Maintenance Free)	
	Output Shaft Material	S43C	
	Case Material	Aluminium die-cast	
Ambient Conditions	Ambient Temperature	- 10 ~ 40	
	Ambient Humidity	85% max. (without any dew condensation)	
	Altitude	1,000m max.	
	Environment	Well ventilated place free from corrosive gas, explosive gas vapor and/or dust.	
	Installation Location	Indoors	
Painting	Painting Method	Anion painting, Acrylic paint	
	Painting Color	Grey (Mansel code:9B6/0.5)	
Mounting Direction		No restriction in the mounting angle. (horizontally, vertically or heeling angle)	

Model and Type Designation GT-STEP

Standard Model

Model type and code

GT-STEP are classified by codes as shown below. Specify these codes in your inquiry and/or order.



Model Lineup(1264 various)

Number of Stop	Type	Motor Capacity	Frame Number	Nominal Cycle Time													
				1	1.5	2	3	4	5	6	8	10	12	16	20	24	
4	With Motor (GILM)	3-phase 25W	22														
		1-phase 25W	28														
			32														
6	With Motor (GILM)	3-phase 50W	28														
		1-phase 50W	32														
			40														
8	With Brake Motor (GILB)	3-phase 90W	32														
		1-phase 90W	40														
12	With Brake Motor (GILB)	3-phase 0.2kW	40														

Features

- ❶ Reasonable Price
Prepared for users who is unable to purchase the previous index because of the high prices. For those who are using the expensive index, we offer you with the reasonable price for easy employment.
- ❷ All-in-one Structure
Intermittent mechanisms, reducer and motor are compactly combined. This design offers better handlings.
- ❸ Wide varieties of models
1,264 models of GT-STEP are nominated as standard model. Therefore, detailed selection for the most adequate model is possible.

- ❹ Long Life
Excellent durability of the built-in gears and Geneva gears have been realized with the precise machining and the high-level heat treatment.
- ❺ Free mounting direction
Because of the high level grease lubrication system, there is no restriction in the mounting direction.

- Parallel Shaft (Performance Table/Dimension)
- Gearmotor with Brake
- Water-resistant, Outdoor Gearmotor with Brake
- Gearmotor with Clutch/Brake
- Reducer (Double Shaft)
- S-Type Reducer
- Right Angle Shaft (Performance Table/Dimension)
- Gearmotor with Brake
- Water-resistant, Outdoor Gearmotor with Brake
- Gearmotor with Clutch/Brake
- Reduce (Double Shaft)
- S-Type Reducer
- Hollow Shaft Solid Shaft Performance Table/Dimension
- Gearmotor with Brake
- Water-resistant, Outdoor Gearmotor with Brake
- Reduce (Double Shaft)
- S-Type Reducer
- Concentric Hollow Shaft Concentric Solid Shaft Performance Table/Dimension
- Gearmotor with Brake
- Water-Resistant, Outdoor Gearmotor with Brake
- Reducer (Parallel Shaft)
- S-Type Reducer
- Technical Information
- Standard Motors
- Cautions for Safety
- Option
- GT-STEP Index Gearmotor
- KOMPASS Gearbox

Index Gearmotor Index Gearmotor with Brake

3-phase 25W

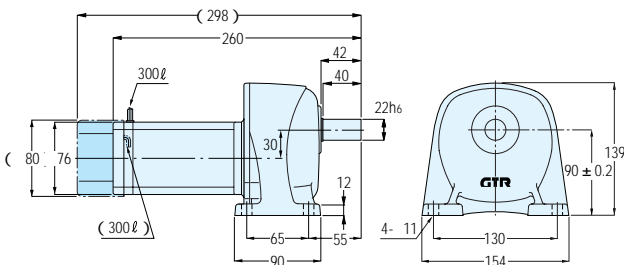
The values in parentheses in the Performance Table/Dimension Diagram indicate the values of gearmotors with brake.

Top figure/Allowable Torque(N·m)
Bottom figure/Allowable Inertia Moment I (kg·m²)

No. of stop	Motor Capacity	Frame Number	Nominal Cycle Time (At the input speed of 1800rpm)													Plotted Accuracy (minute)	Allowable O.H.L. (N)	Outer dimension Figure No. and Page		
			1	1.5	2	3	4	5	6	8	10	12	16	20	24			GILM (GILB)	GIFM (GIFB)	
4	3-phase 25W	22	1.47 0.070	2.25 0.150	2.94 0.275	4.41 0.625	5.88 1.13	7.35 1.75	8.82 2.53									882	P.F4 Fig.F-1	P.F5 Fig.F-4
		28									11.8 5.75	14.7 9.00	17.6 13.0					1370	P.F4 Fig.F-2	P.F5 Fig.F-5
		32												23.5 37.8	29.4 59.0	35.3 85.0		2550	P.F5 Fig.F-3	P.F5 Fig.F-6
6	3-phase 25W	22	2.16 0.158	3.33 0.325	4.41 0.600	6.57 1.40	8.82 2.53	10.8 3.93	12.7 5.68									1180	P.F4 Fig.F-1	P.F5 Fig.F-4
		28									17.6 13.0	21.6 20.3	26.5 29.0					1760	P.F4 Fig.F-2	P.F5 Fig.F-5
		32												35.3 84.8	44.1 133	52.9 191		3330	P.F5 Fig.F-3	P.F5 Fig.F-6
8	3-phase 25W	22	2.94 0.275	4.51 0.600	5.88 1.10	8.82 2.50	11.8 4.50	14.7 7.00	17.6 10.1									1470	P.F4 Fig.F-1	P.F5 Fig.F-4
		28									23.5 23.0	29.4 36.0	35.3 51.8					2250	P.F4 Fig.F-2	P.F5 Fig.F-5
		32												47.0 151	58.8 236	70.6 340		4310	P.F5 Fig.F-3	P.F5 Fig.F-6
12	3-phase 25W	22	4.31 0.625	6.66 1.30	8.82 2.40	12.7 5.60	17.6 10.1	21.6 15.7	25.5 22.7									1670	P.F4 Fig.F-1	P.F5 Fig.F-4
		28									35.3 51.8	43.1 81.0	52.9 116					2550	P.F4 Fig.F-2	P.F5 Fig.F-5
		32												70.6 340	88.2 530	106 765		4700	P.F5 Fig.F-3	P.F5 Fig.F-6

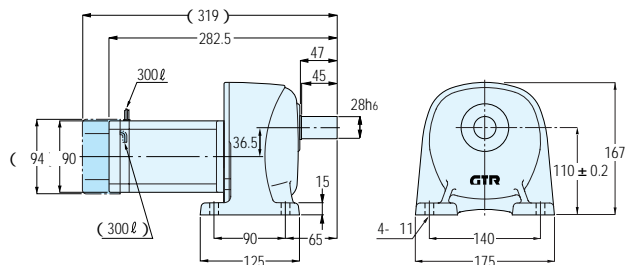
Foot Mount Type

Fig.F-1 GILM-22-4 ~ 12/1 ~ 6-T25
CAD Data: GILM-22-T25
(GILB-22-4 ~ 12/1 ~ 6-T25)
(CAD Data: GILB-22-T25)



Round Weight 6 kg

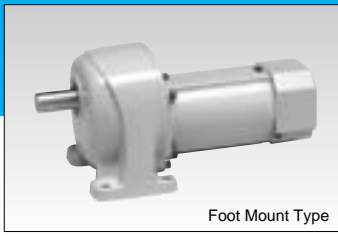
Fig.F-2 GILM-28-4 ~ 12/8 ~ 12-T25
CAD Data: GILM-28-T25
(GILB-28-4 ~ 12/8 ~ 12-T25)
(CAD Data: GILB-28-T25)



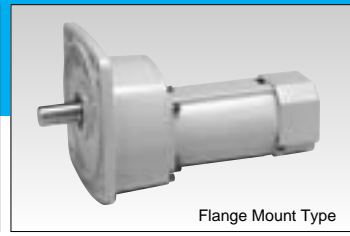
Round Weight 8 kg

Model Code
P.F2

Technical Information
P.F19

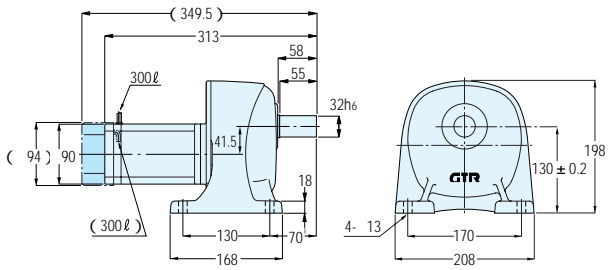


Foot Mount Type



Flange Mount Type

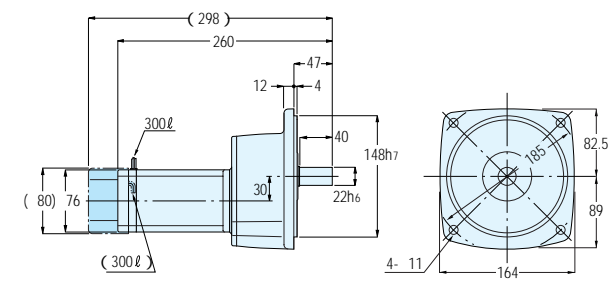
Fig.F-3 **GILM-32-4 ~ 12/16 ~ 24-T25**
 CAD Data: GILM-32-T25
(GILB-32-4 ~ 12/16 ~ 24-T25)
 (CAD Data: GILB-32-T25)



Round Weight 12 kg

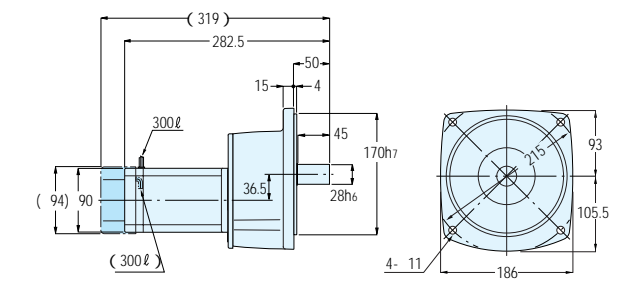
Flange Mount Type

Fig.F-4 **GIFM-22-4 ~ 12/1 ~ 6-T25**
 CAD Data: GIFM-22-T25
(GIFB-22-4 ~ 12/1 ~ 6-T25)
 (CAD Data: GIFB-22-T25)



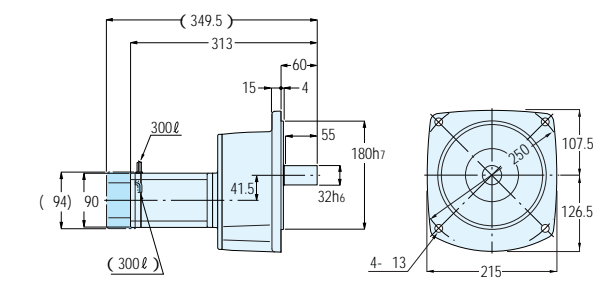
Round Weight 6 kg

Fig.F-5 **GIFM-28-4 ~ 12/8 ~ 12-T25**
 CAD Data: GIFM-28-T25
(GIFB-28-4 ~ 12/8 ~ 12-T25)
 (CAD Data: GIFB-28-T25)



Round Weight 8 kg

Fig.F-6 **GIFM-32-4 ~ 12/16 ~ 24-T25**
 CAD Data: GIFM-32-T25
(GIFB-32-4 ~ 12/16 ~ 24-T25)
 (CAD Data: GIFB-32-T25)



Round Weight 12 kg

- Parallel Shaft (Performance Table/Dimension)
- Gearmotor with Brake
- Water-resistant, Outdoor Gearmotor with Brake
- Gearmotor with Clutch/Brake
- Reducer (Double Shaft)
- S-Type Reducer
- Right Angle Shaft (Performance Table/Dimension)
- Gearmotor with Brake
- Water-resistant, Outdoor Gearmotor with Brake
- Gearmotor with Clutch /Brake
- Reduce (Double Shaft)
- S-Type Reducer
- Hollow Shaft Solid Shaft Performance Table/Dimension
- Gearmotor with Brake
- Water-Resistant, Outdoor Gearmotor with Brake
- Reduce (Double Shaft)
- S-Type Reducer
- Concentric Hollow Shaft Concentric Solid Shaft Performance Table/Dimension
- Gearmotor with Brake
- Water-Resistant, Outdoor Gearmotor with Brake
- Reducer (Parallel Shaft)
- S-Type Reducer
- Technical Information
- Standard Motors
- Cautions for Safety
- Option
- GT-STEP Index Gearmotor
- KOMPASS Gearbox

Index Gearmotor Index Gearmotor with Brake

3-phase 50W

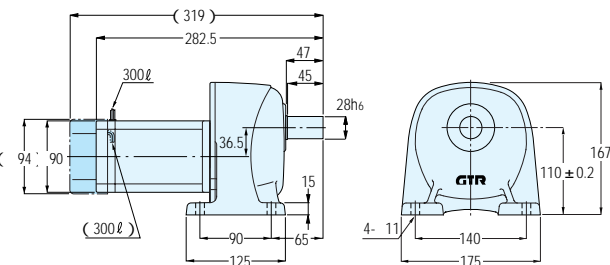
The values in parentheses in the Performance Table/Dimension Diagram indicate the values of gearmotors with brake.

Top figure/Allowable Torque(N·m)
Bottom figure/Allowable Inertia Moment I (kg·m²)

No. of stop	Motor Capacity	Frame Number	Nominal Cycle Time (At the input speed of 1800rpm)												Plotted Accuracy (minute)	Allowable O.H.L. (N)	Outer dimension Figure No. and Page				
			1	1.5	2	3	4	5	6	8	10	12	16	20			24	GILM (GILB)	GIFM (GIFB)		
4	3-phase 50W	28	2.94 0.140	4.41 0.300	5.88 0.550	8.82 1.25	11.8 2.25	14.7 3.50	17.6 5.05									±5	1370	P.F6 Fig.F-7	P.F7 Fig.F-10
		32									23.5 11.7	29.4 18.3	35.3 26.3						2550	P.F6 Fig.F-8	P.F7 Fig.F-11
		40												47.0 76.8	58.8 120	70.6 173			3530	P.F7 Fig.F-9	P.F7 Fig.F-12
6	3-phase 50W	28	4.41 0.300	6.57 0.675	8.82 1.23	12.7 2.80	17.6 5.05	21.6 7.88	26.5 11.4									±5	1760	P.F6 Fig.F-7	P.F7 Fig.F-10
		32									35.3 26.3	44.1 41.0	52.9 59.0						3330	P.F6 Fig.F-8	P.F7 Fig.F-11
		40												70.6 173	88.2 270	106 388			4610	P.F7 Fig.F-9	P.F7 Fig.F-12
8	3-phase 50W	28	5.88 0.550	8.82 1.20	11.8 2.20	17.6 5.00	23.5 9.00	29.4 14.0	35.3 20.2									±5	2250	P.F6 Fig.F-7	P.F7 Fig.F-10
		32									47.0 46.8	58.8 73.0	70.6 105						4310	P.F6 Fig.F-8	P.F7 Fig.F-11
		40												94.1 308	118 480	141 690			5880	P.F7 Fig.F-9	P.F7 Fig.F-12
12	3-phase 50W	28	8.82 1.20	12.7 2.70	17.6 4.90	25.5 11.2	35.3 20.2	43.1 31.5	52.9 45.5									±5	2550	P.F6 Fig.F-7	P.F7 Fig.F-10
		32									70.6 105	94.1 164	106 236						4700	P.F6 Fig.F-8	P.F7 Fig.F-11
		40												141 690	176 1080	212 1560			6660	P.F7 Fig.F-9	P.F7 Fig.F-12

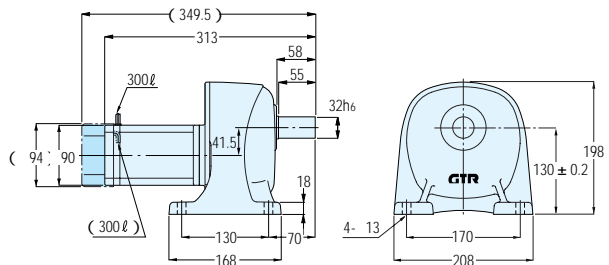
Foot Mount Type

Fig.F-7 GILM-28-4 ~ 12/1 ~ 6-T50
CAD Data: GILM-28-T50
(GILB-28-4 ~ 12/1 ~ 6-T50)
(CAD Data: GILB-28-T50)



Round Weight 8 kg

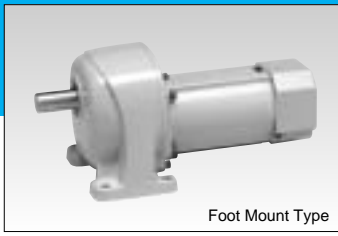
Fig.F-8 GILM-32-4 ~ 12/8 ~ 12-T50
CAD Data: GILM-32-T50
(GILB-32-4 ~ 12/8 ~ 12-T50)
(CAD Data: GILB-32-T50)



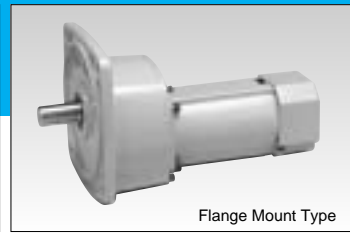
Round Weight 12 kg

Model Code
P.F2

Technical Information
P.F19

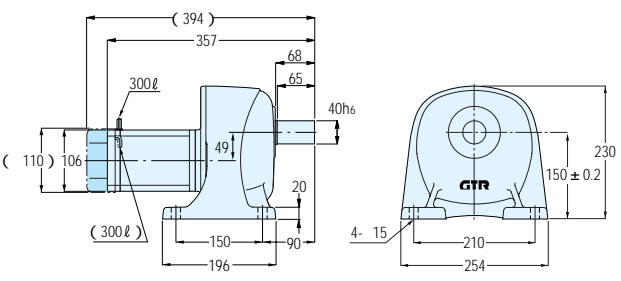


Foot Mount Type



Flange Mount Type

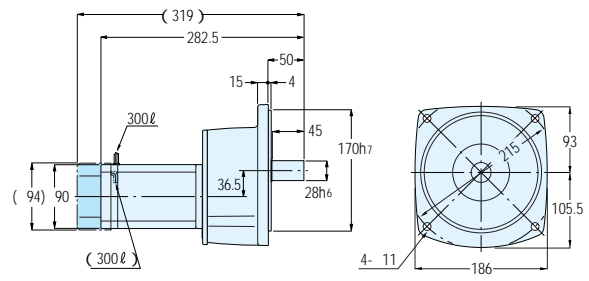
Fig.F-9 **GILM-40-4 ~ 12/16 ~ 24-T50**
 CAD Data: GILM-40-T50
(GILB-40-4 ~ 12/16 ~ 24-T50)
 (CAD Data: GILB-40-T50)



Round Weight 17 kg

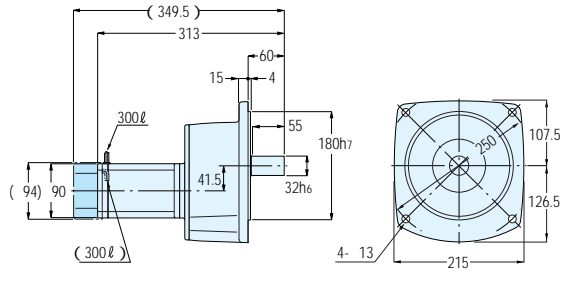
Flange Mount Type

Fig.F-10 **GIFM-28-4 ~ 12/1 ~ 6-T50**
 CAD Data: GIFM-28-T50
(GIFB-28-4 ~ 12/1 ~ 6-T50)
 (CAD Data: GIFB-28-T50)



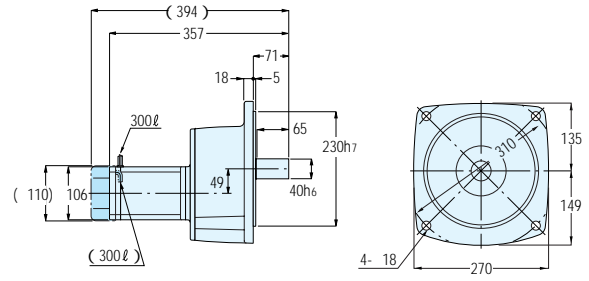
Round Weight 8 kg

Fig.F-11 **GIFM-32-4 ~ 12/8 ~ 12-T50**
 CAD Data: GIFM-32-T50
(GIFB-32-4 ~ 12/8 ~ 12-T50)
 (CAD Data: GIFB-32-T50)



Round Weight 12 kg

Fig.F-12 **GIFM-40-4 ~ 12/16 ~ 24-T50**
 CAD Data: GIFM-40-T50
(GIFB-40-4 ~ 12/16 ~ 24-T50)
 (CAD Data: GIFB-40-T50)



Round Weight 17 kg

- Parallel Shaft (Performance Table/Dimension)
- Gearmotor with Brake
- Water-resistant, Outdoor Gearmotor with Brake
- Gearmotor with Clutch/Brake
- Reducer (Double Shaft)
- S-Type Reducer
- Right Angle Shaft (Performance Table/Dimension)
- Gearmotor with Brake
- Water-resistant, Outdoor Gearmotor with Brake
- Gearmotor with Clutch /Brake
- Reduce (Double Shaft)
- S-Type Reducer
- Hollow Shaft Solid Shaft Performance Table/Dimension
- Gearmotor with Brake
- Water-Resistant, Outdoor Gearmotor with Brake
- Reduce (Double Shaft)
- S-Type Reducer
- Concentric Hollow Shaft Concentric Solid Shaft Performance Table/Dimension
- Gearmotor with Brake
- Water-Resistant, Outdoor Gearmotor with Brake
- Reducer (Parallel Shaft)
- S-Type Reducer
- Technical Information
- Standard Motors
- Cautions for Safety
- Option
- GT-STEP Index Gearmotor
- KOMPASS Gearbox

Index Gearmotor Index Gearmotor with Brake

3-phase 90W

The values in parentheses in the Performance Table/Dimension Diagram indicate the values of gearmotors with brake.

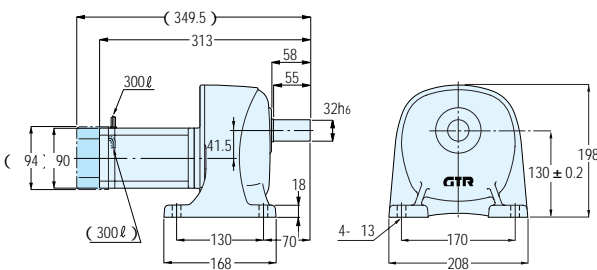
Top figure/Allowable Torque(N·m)
Bottom figure/Allowable Inertia Moment I (kg·m²)

No. of stop	Motor Capacity	Frame Number	Nominal Cycle Time (At the input speed of 1800rpm)													Plotted Accuracy (minute)	Allowable O.H.L. (N)	Outer dimension Figure No. and Page		
			1	1.5	2	3	4	5	6	8	10	12	16	20	24			GILM (GILB)	GIFM (GIFB)	
4	3-phase 90W	32	5.39 0.275	8.13 0.625	10.8 1.10	16.7 2.48	21.6 4.40	27.4 6.88	32.3 9.90									2550	P.F8 Fig.F-13	P.F9 Fig.F-15
		40									43.1 22.4	53.9 35.0	64.7 50.5					3530	P.F8 Fig.F-14	P.F9 Fig.F-16
6	3-phase 90W	32	8.04 0.600	11.8 1.40	15.7 2.48	24.5 5.55	32.3 9.90	41.2 15.5	48.0 22.3									3330	P.F8 Fig.F-13	P.F9 Fig.F-15
		40									64.7 50.3	80.4 78.8	97.0 114					4610	P.F8 Fig.F-14	P.F9 Fig.F-16
8	3-phase 90W	32	10.8 1.10	16.7 2.50	21.6 4.40	33.3 9.90	43.1 17.6	54.9 27.5	64.7 39.5									4310	P.F8 Fig.F-13	P.F9 Fig.F-15
		40									86.2 89.5	108 140	129 202					5880	P.F8 Fig.F-14	P.F9 Fig.F-16
12	3-phase 90W	32	15.7 2.40	23.5 5.60	31.4 9.90	49.0 22.2	64.7 39.5	82.3 61.8	96.0 89.0									4700	P.F8 Fig.F-13	P.F9 Fig.F-15
		40									129 201	161 315	194 455					6660	P.F8 Fig.F-14	P.F9 Fig.F-16

Foot Mount Type

Fig.F-13

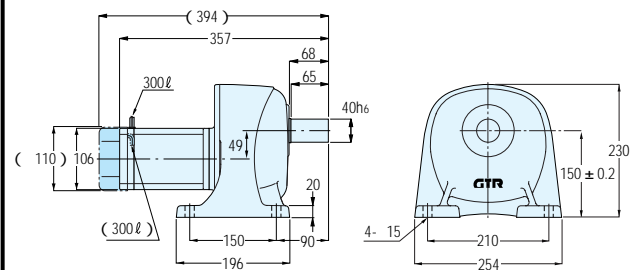
GILM-32-4 ~ 12/1 ~ 6-T90
CAD Data: GILM-32-T90
(GILB-32-4 ~ 12/1 ~ 6-T90)
(CAD Data: GILB-32-T90)



Round Weight 12 kg

Fig.F-14

GILM-40-4 ~ 12/8 ~ 12-T90
CAD Data: GILM-40-T90
(GILB-40-4 ~ 12/8 ~ 12-T90)
(CAD Data: GILB-40-T90)

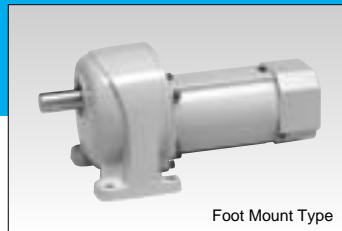


Round Weight 17 kg

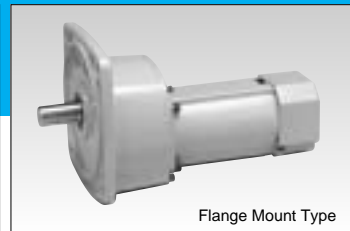
Model Code
P.F2

Technical Information
P.F19

Flange Mount Type



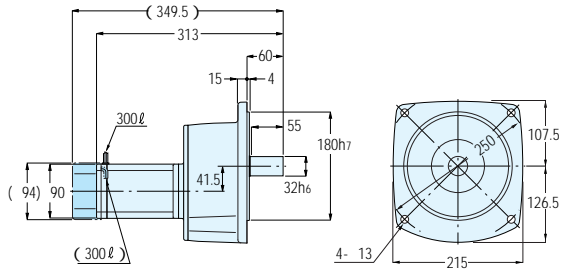
Foot Mount Type



Flange Mount Type

Fig.F-15

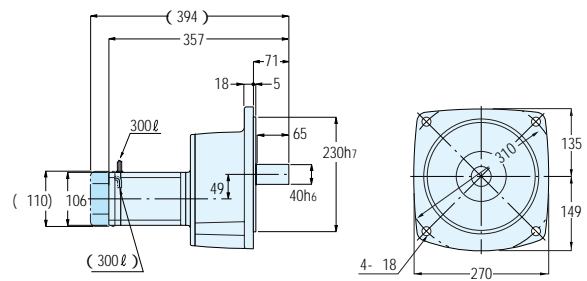
GIFM-32-4 ~ 12/1 ~ 6-T90
 CAD Data: GIFM-32-T90
(GIFB-32-4 ~ 12/1 ~ 6-T90)
 (CAD Data: GIFB-32-T90)



Round Weight 12 kg

Fig.F-16

GIFM-40-4 ~ 12/8 ~ 12-T90
 CAD Data: GIFM-40-T90
(GIFB-40-4 ~ 12/8 ~ 12-T90)
 (CAD Data: GIFB-40-T90)



Round Weight 17 kg

- Parallel Shaft (Performance Table/Dimension)
- Gearmotor with Brake
- Water-resistant, Outdoor Gearmotor with Brake
- Gearmotor with Clutch/Brake
- Reducer (Double Shaft)
- S-Type Reducer
- Right Angle Shaft (Performance Table/Dimension)
- Gearmotor with Brake
- Water-resistant, Outdoor Gearmotor with Brake
- Gearmotor with Clutch/Brake
- Reduce (Double Shaft)
- S-Type Reducer
- Hollow Shaft Solid Shaft Performance Table/Dimension
- Gearmotor with Brake
- Water-Resistant, Outdoor Gearmotor with Brake
- Reduce (Double Shaft)
- S-Type Reducer
- Concentric Hollow Shaft Concentric Solid Shaft Performance Table/Dimension
- Gearmotor with Brake
- Water-Resistant, Outdoor Gearmotor with Brake
- Reducer (Parallel Shaft)
- S-Type Reducer
- Technical Information
- Standard Motors
- Cautions for Safety
- Option
- GT-STEP Index Gearmotor
- KOMPASS Gearbox

Index Gearmotor Index Gearmotor with Brake

3-phase 0.2kW

The values in parentheses in the Performance Table/Dimension Diagram indicate the values of gearmotors with brake.

Top figure/Allowable Torque(N·m)
Bottom figure/Allowable Inertia Moment I (kg·m²)

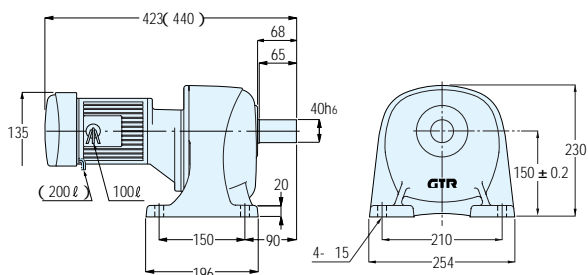
No. of stop	Motor Capacity	Frame Number	Nominal Cycle Time (At the input speed of 1800rpm)												Plotted Accuracy (minute)	Allowable O.H.L. (N)	Outer dimension Figure No. and Page			
			1	1.5	2	3	4	5	6	8	10	12	16	20			24	GILM (GILB)	GIFM (GIFB)	
4	3-phase 0.2kW	40	11.8 0.450	17.6 1.03	23.5 1.80	35.3 4.05	47.0 7.20	58.8 11.3	70.6 16.3							±5	3530	P.F10 Fig.F-17	P.F10 Fig.F-18	
6		40	17.6 1.00	26.5 2.30	35.3 4.05	52.9 9.10	70.6 16.2	88.2 25.3	106 36.3								4610	P.F10 Fig.F-17	P.F10 Fig.F-18	
8		40	23.5 1.80	35.3 4.10	47.0 7.20	70.6 16.2	94.1 28.8	118 45.0	141 65.0									5880	P.F10 Fig.F-17	P.F10 Fig.F-18
12		40	35.3 4.00	52.9 9.20	70.6 16.2	106 36.5	141 64.8	176 101	212 145									6660	P.F10 Fig.F-17	P.F10 Fig.F-18

Foot Mount Type

Flange Mount Type

Fig.F-17

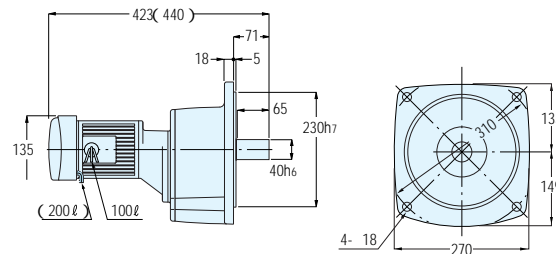
GILM-40-4 ~ 12/1 ~ 6-T020
CAD Data: GILM-40-T020
(GILB-40-4 ~ 12/1 ~ 6-T020)
(CAD Data: GILB-40-T020)



Round Weight 21 kg

Fig.F-18

GIFM-40-4 ~ 12/1 ~ 6-T020
CAD Data: GIFM-40-T020
(GIFB-40-4 ~ 12/1 ~ 6-T020)
(CAD Data: GIFB-40-T020)



Round Weight 21 kg

Model Code
P.F2

Technical Information
P.F19

Index Gearmotor Index Gearmotor with Brake

1-phase 25W

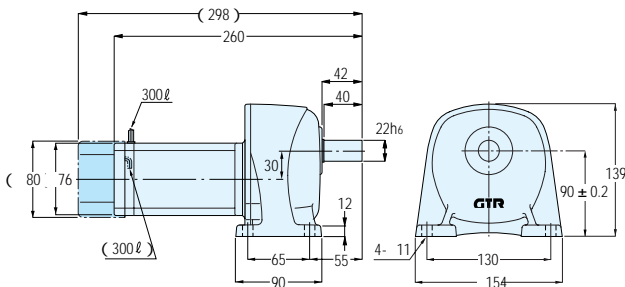
The values in parentheses in the Performance Table/Dimension Diagram indicate the values of gearmotors with brake.

Top figure/Allowable Torque(N·m)
Bottom figure/Allowable Inertia Moment I (kg·m²)

No. of stop	Motor Capacity	Frame Number	Nominal Cycle Time (At the input speed of 1800rpm)												Plotted Accuracy (minute)	Allowable O.H.L. (N)	Outer dimension Figure No. and Page				
			1	1.5	2	3	4	5	6	8	10	12	16	20			24	GILM (GILB)	GIFM (GIFB)		
4	1-phase 25W	22	1.47 0.070	2.25 0.150	2.94 0.275	4.41 0.625	5.88 1.13	7.35 1.75	8.82 2.53									±5	882	P.F12 Fig.F-19	P.F13 Fig.F-22
		28								11.8 5.75	14.7 9.00	17.6 13.0							1370	P.F12 Fig.F-20	P.F13 Fig.F-23
		32											23.5 37.8	29.4 59.0	35.3 85.0				2550	P.F13 Fig.F-21	P.F13 Fig.F-24
6	1-phase 25W	22	2.16 0.158	3.33 0.325	4.41 0.600	6.57 1.40	8.82 2.53	10.8 3.93	12.7 5.68									±5	1180	P.F12 Fig.F-19	P.F13 Fig.F-22
		28								17.6 13.0	21.6 20.3	26.5 29.0							1760	P.F12 Fig.F-20	P.F13 Fig.F-23
		32											35.3 84.8	44.1 133	52.9 191				3330	P.F13 Fig.F-21	P.F13 Fig.F-24
8	1-phase 25W	22	2.94 0.275	4.51 0.600	5.88 1.10	8.82 2.50	11.8 4.50	14.7 7.00	17.6 10.1									±5	1470	P.F12 Fig.F-19	P.F13 Fig.F-22
		28								23.5 23.0	29.4 36.0	35.3 51.8							2250	P.F12 Fig.F-20	P.F13 Fig.F-23
		32											47.0 151	58.8 236	70.6 340				4310	P.F13 Fig.F-21	P.F13 Fig.F-24
12	1-phase 25W	22	4.31 0.625	6.66 1.30	8.82 2.40	12.7 5.60	17.6 10.1	21.6 15.7	25.5 22.7									±5	1670	P.F12 Fig.F-19	P.F13 Fig.F-22
		28								35.3 51.8	43.1 81.0	52.9 116							2550	P.F12 Fig.F-20	P.F13 Fig.F-23
		32											70.6 340	88.2 530	106 765				4700	P.F13 Fig.F-21	P.F13 Fig.F-24

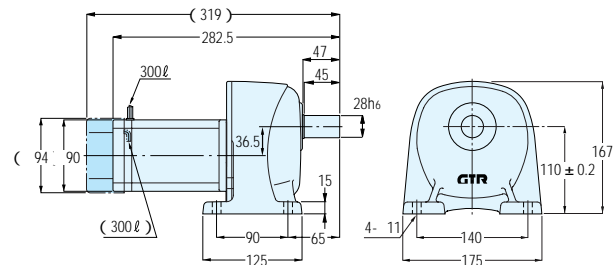
Foot Mount Type

Fig.F-19 GILM-22-4 ~ 12/1 ~ 6-S25
CAD Data: GILM-22-S25
(GILB-22-4 ~ 12/1 ~ 6-S25)
(CAD Data: GILB-22-S25)



Round Weight 6 kg

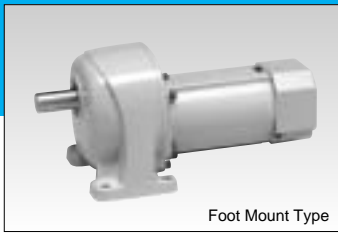
Fig.F-20 GILM-28-4 ~ 12/8 ~ 12-S25
CAD Data: GILM-28-S25
(GILB-28-4 ~ 12/8 ~ 12-S25)
(CAD Data: GILB-28-S25)



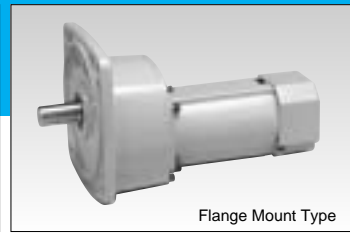
Round Weight 8 kg

Model Code
P.F2

Technical Information
P.F19

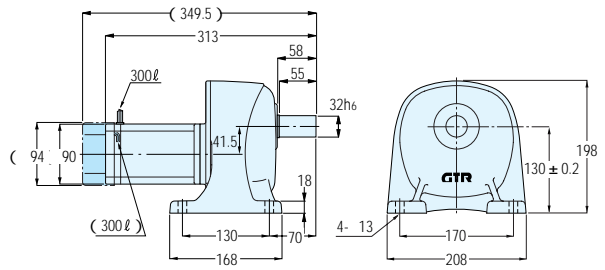


Foot Mount Type



Flange Mount Type

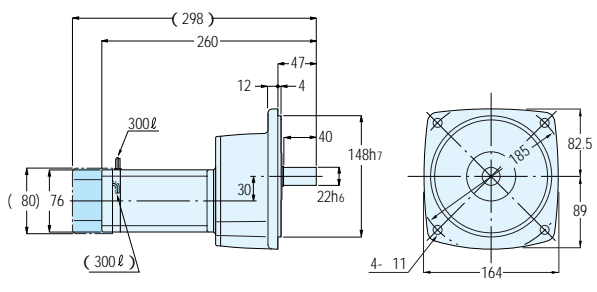
Fig.F-21 **GILM-32-4 ~ 12/16 ~ 24-S25**
 CAD Data: GILM-32-S25
(GILB-32-4 ~ 12/16 ~ 24-S25)
 (CAD Data: GILB-32-S25)



Round Weight 12 kg

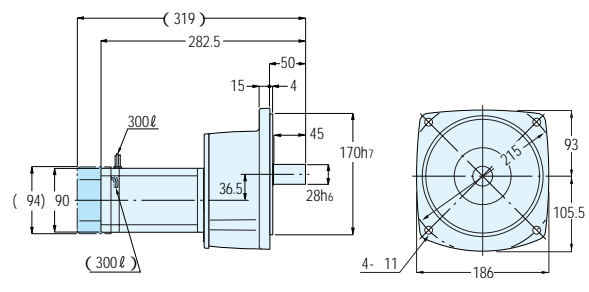
Flange Mount Type

Fig.F-22 **GIFM-22-4 ~ 12/1 ~ 6-S25**
 CAD Data: GIFM-22-S25
(GIFB-22-4 ~ 12/1 ~ 6-S25)
 (CAD Data: GIFB-22-S25)



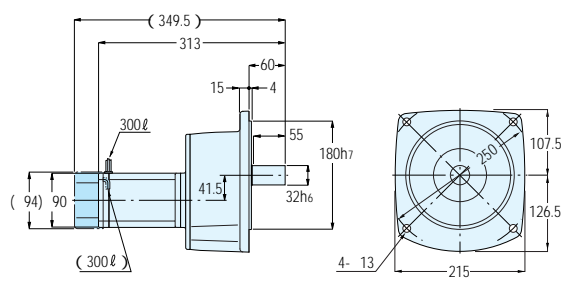
Round Weight 6 kg

Fig.F-23 **GIFM-28-4 ~ 12/8 ~ 12-S25**
 CAD Data: GIFM-28-S25
(GIFB-28-4 ~ 12/8 ~ 12-S25)
 (CAD Data: GIFB-28-S25)



Round Weight 8 kg

Fig.F-24 **GIFM-32-4 ~ 12/16 ~ 24-S25**
 CAD Data: GIFM-32-S25
(GIFB-32-4 ~ 12/16 ~ 24-S25)
 (CAD Data: GIFB-32-S25)



Round Weight 12 kg

- Parallel Shaft (Performance Table/Dimension)
- Gearmotor with Brake
- Water-resistant, Outdoor Gearmotor with Brake
- Gearmotor with Clutch/Brake
- Reducer (Double Shaft)
- S-Type Reducer
- Right Angle Shaft (Performance Table/Dimension)
- Gearmotor with Brake
- Water-resistant, Outdoor Gearmotor with Brake
- Gearmotor with Clutch /Brake
- Reduce (Double Shaft)
- S-Type Reducer
- Hollow Shaft Solid Shaft Performance Table/Dimension
- Gearmotor with Brake
- Water-Resistant, Outdoor Gearmotor with Brake
- Reduce (Double Shaft)
- S-Type Reducer
- Concentric Hollow Shaft Concentric Solid Shaft Performance Table Dimension
- Gearmotor with Brake
- Water-Resistant, Outdoor Gearmotor with Brake
- Reducer (Parallel Shaft)
- S-Type Reducer
- Technical Information
- Standard Motors
- Cautions for Safety
- Option
- GT-STEP Index Gearmotor
- KOMPASS Gearbox

Index Gearmotor Index Gearmotor with Brake

1-phase 50W

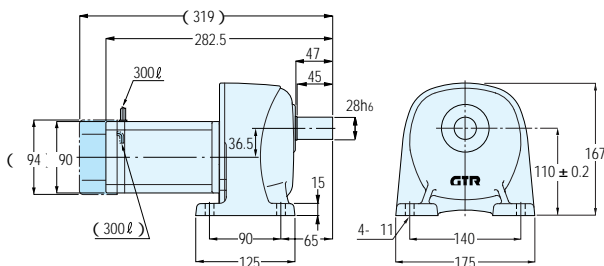
The values in parentheses in the Performance Table/Dimension Diagram indicate the values of gearmotors with brake.

Top figure/Allowable Torque(N·m)
Bottom figure/Allowable Inertia Moment I (kg·m²)

No. of stop	Motor Capacity	Frame Number	Nominal Cycle Time (At the input speed of 1800rpm)													Plotted Accuracy (minute)	Allowable O.H.L. (N)	Outer dimension Figure No. and Page		
			1	1.5	2	3	4	5	6	8	10	12	16	20	24			GILM (GILB)	GIFM (GIFB)	
4	1-phase 50W	28	2.94 0.140	4.41 0.300	5.88 0.550	8.82 1.25	11.8 2.25	14.7 3.50	17.6 5.05									1370	P.F14 Fig.F-25	P.F15 Fig.F-28
		32									23.5 11.7	29.4 18.3	35.3 26.3					2550	P.F14 Fig.F-26	P.F15 Fig.F-29
		40												47.0 76.8	58.8 120	70.6 173		3530	P.F15 Fig.F-27	P.F15 Fig.F-30
6	1-phase 50W	28	4.41 0.300	6.57 0.675	8.82 1.23	12.7 2.80	17.6 5.05	21.6 7.88	26.5 11.4									1760	P.F14 Fig.F-25	P.F15 Fig.F-28
		32									35.3 26.3	44.1 41.0	52.9 59.0					3330	P.F14 Fig.F-26	P.F15 Fig.F-29
		40												70.6 173	88.2 270	106 388		4610	P.F15 Fig.F-27	P.F15 Fig.F-30
8	1-phase 50W	28	5.88 0.550	8.82 1.20	11.8 2.20	17.6 5.00	23.5 9.00	29.4 14.0	35.3 20.2									2250	P.F14 Fig.F-25	P.F15 Fig.F-28
		32									47.0 46.8	58.8 73.0	70.6 105					4310	P.F14 Fig.F-26	P.F15 Fig.F-29
		40												94.1 308	118 480	141 690		5880	P.F15 Fig.F-27	P.F15 Fig.F-30
12	1-phase 50W	28	8.82 1.20	12.7 2.70	17.6 4.90	25.5 11.2	35.3 20.2	43.1 31.5	52.9 45.5									2550	P.F14 Fig.F-25	P.F15 Fig.F-28
		32									70.6 105	94.1 164	106 236					4700	P.F14 Fig.F-26	P.F15 Fig.F-29
		40												141 690	176 1080	212 1560		6660	P.F15 Fig.F-27	P.F15 Fig.F-30

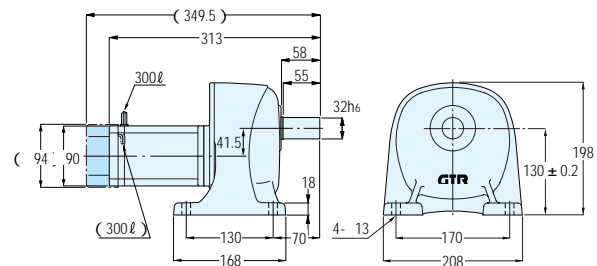
Foot Mount Type

Fig.F-25 **GILM-28-4 ~ 12/1 ~ 6-S50**
CAD Data: GILM-28-S50
(GILB-28-4 ~ 12/1 ~ 6-S50)
(CAD Data: GILB-28-S50)



Round Weight 8 kg

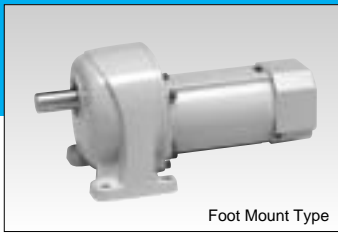
Fig.F-26 **GILM-32-4 ~ 12/8 ~ 12-S50**
CAD Data: GILM-32-S50
(GILB-32-4 ~ 12/8 ~ 12-S50)
(CAD Data: GILB-32-S50)



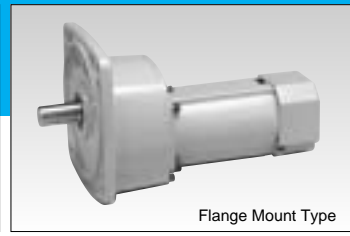
Round Weight 12 kg

Model Code
P.F2

Technical Information
P.F19



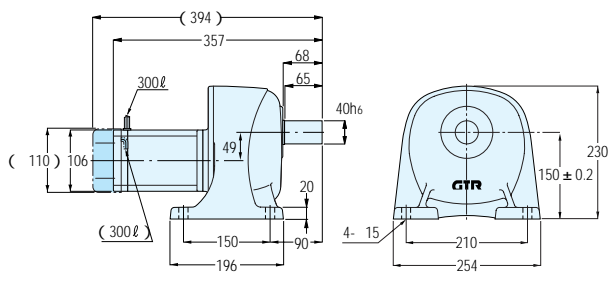
Foot Mount Type



Flange Mount Type

Fig.F-27

GILM-40-4 ~ 12/16 ~ 24-S50
 CAD Data: GILM-40-S50
(GILB-40-4 ~ 12/16 ~ 24-S50)
 (CAD Data: GILB-40-S50)

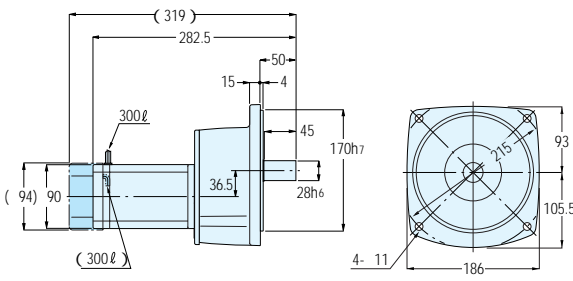


Round Weight 17 kg

Flange Mount Type

Fig.F-28

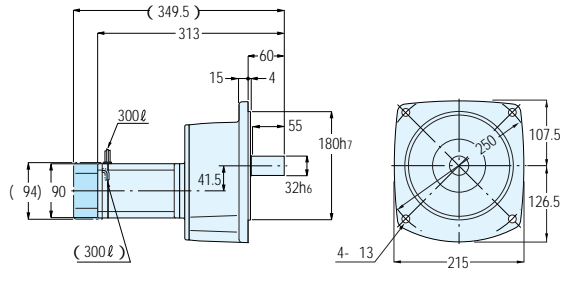
GIFM-28-4 ~ 12/1 ~ 6-S50
 CAD Data: GIFM-28-S50
(GIFB-28-4 ~ 12/1 ~ 6-S50)
 (CAD Data: GIFB-28-S50)



Round Weight 8 kg

Fig.F-29

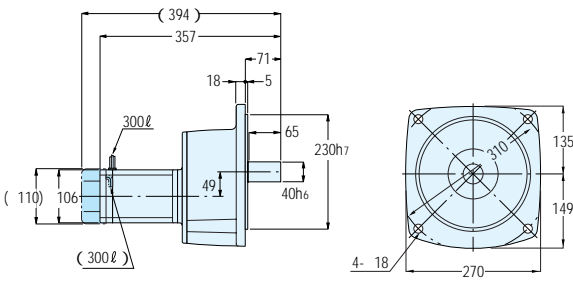
GIFM-32-4 ~ 12/8 ~ 12-S50
 CAD Data: GIFM-32-S50
(GIFB-32-4 ~ 12/8 ~ 12-S50)
 (CAD Data: GIFB-32-S50)



Round Weight 12 kg

Fig.F-30

GIFM-40-4 ~ 12/16 ~ 24-S50
 CAD Data: GIFM-40-S50
(GIFB-40-4 ~ 12/16 ~ 24-S50)
 (CAD Data: GIFB-40-S50)



Round Weight 17 kg

- Parallel Shaft (Performance Table/Dimension)
- Gearmotor with Brake
- Water-resistant, Outdoor Gearmotor with Brake
- Gearmotor with Clutch/Brake
- Reducer (Double Shaft)
- S-Type Reducer
- Right Angle Shaft (Performance Table/Dimension)
- Gearmotor with Brake
- Water-resistant, Outdoor Gearmotor with Brake
- Gearmotor with Clutch /Brake
- Reduce (Double Shaft)
- S-Type Reducer
- Hollow Shaft Solid Shaft Performance Table/Dimension
- Gearmotor with Brake
- Water-Resistant, Outdoor Gearmotor with Brake
- Reduce (Double Shaft)
- S-Type Reducer
- Concentric Hollow Shaft Concentric Solid Shaft Performance Table/Dimension
- Gearmotor with Brake
- Water-Resistant, Outdoor Gearmotor with Brake
- Reducer (Parallel Shaft)
- S-Type Reducer
- Technical Information
- Standard Motors
- Cautions for Safety
- Option
- GT-STEP Index Gearmotor
- KOMPASS Gearbox

Index Gearmotor Index Gearmotor with Brake

1-phase 90W

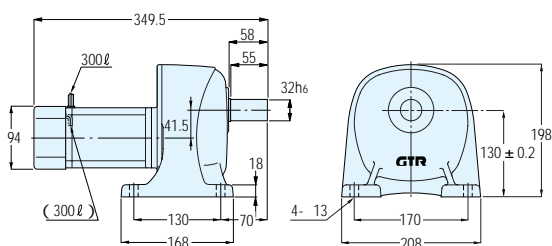
The values in parentheses in the Performance Table/Dimension Diagram indicate the values of gearmotors with brake.

Top figure/Allowable Torque(N·m)
Bottom figure/Allowable Inertia Moment I (kg·m²)

No. of stop	Motor Capacity	Frame Number	Nominal Cycle Time (At the input speed of 1800rpm)												Plotted Accuracy (minute)	Allowable O.H.L. (N)	Outer dimension Figure No. and Page			
			1	1.5	2	3	4	5	6	8	10	12	16	20			24	GILM (GILB)	GIFM (GIFB)	
4	1-phase 90W	32	5.39 0.275	8.13 0.625	10.8 1.10	16.7 2.48	21.6 4.40	27.4 6.88	32.3 9.90								±5	2550	P.F16 Fig.F-31	P.F17 Fig.F-33
		40								43.1 22.4	53.9 35.0	64.7 50.5						3530	P.F16 Fig.F-32	P.F17 Fig.F-34
6	1-phase 90W	32	8.04 0.600	11.8 1.40	15.7 2.48	24.5 5.55	32.3 9.90	41.2 15.5	48.0 22.3								±5	3330	P.F16 Fig.F-31	P.F17 Fig.F-33
		40								64.7 50.3	80.4 78.8	97.0 114						4610	P.F16 Fig.F-32	P.F17 Fig.F-34
8	1-phase 90W	32	10.8 1.10	16.7 2.50	21.6 4.40	33.3 9.90	43.1 17.6	54.9 27.5	64.7 39.5								±5	4310	P.F16 Fig.F-31	P.F17 Fig.F-33
		40								86.2 89.5	108 140	129 202						5880	P.F16 Fig.F-32	P.F17 Fig.F-34
12	1-phase 90W	32	15.7 2.40	23.5 5.60	31.4 9.90	49.0 22.2	64.7 39.5	82.3 61.8	96.0 89.0								±5	4700	P.F16 Fig.F-31	P.F17 Fig.F-33
		40								129 201	161 315	194 455						6660	P.F16 Fig.F-32	P.F17 Fig.F-34

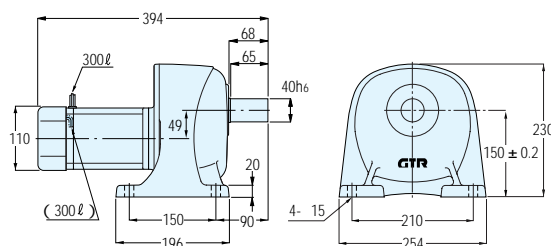
Foot Mount Type

Fig.F-31 GILM-32-4 ~ 12/1 ~ 6-S90
CAD Data: GILM-32-S90
(GILB-32-4 ~ 12/1 ~ 6-S90)
(CAD Data: GILB-32-S90)



Round Weight 12 kg

Fig.F-32 GILM-40-4 ~ 12/8 ~ 12-S90
CAD Data: GILM-40-S90
(GILB-40-4 ~ 12/8 ~ 12-S90)
(CAD Data: GILB-40-S90)



Round Weight 17 kg

Model Code
P.F2

Technical Information
P.F19

Flange Mount Type

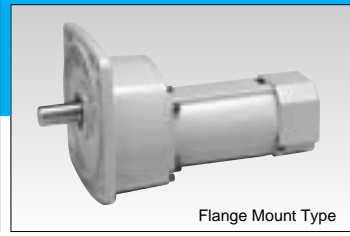
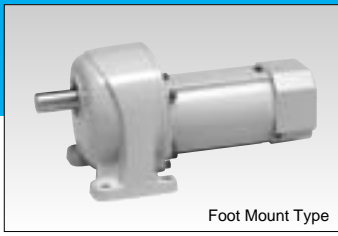


Fig.F-33 **GIFM-32-4 ~ 12/1 ~ 6-S90**
 CAD Data: GIFM-32-S90
(GIFB-32-4 ~ 12/1 ~ 6-S90)
 (CAD Data: GIFB-32-S90)

Round Weight 12 kg

Fig.F-34 **GIFM-40-4 ~ 12/8 ~ 12-S90**
 CAD Data: GIFM-40-S90
(GIFB-40-4 ~ 12/8 ~ 12-S90)
 (CAD Data: GIFB-40-S90)

Round Weight 17 kg

- Parallel Shaft (Performance Table/Dimension)
- Gearmotor with Brake
- Water-resistant, Outdoor Gearmotor with Brake
- Gearmotor with Clutch/Brake
- Reducer (Double Shaft)
- S-Type Reducer
- Right Angle Shaft (Performance Table/Dimension)
- Gearmotor with Brake
- Water-resistant, Outdoor Gearmotor with Brake
- Gearmotor with Clutch /Brake
- Reduce (Double Shaft)
- S-Type Reducer
- Hollow Shaft Solid Shaft Performance Table/Dimension
- Gearmotor with Brake
- Water-Resistant, Outdoor Gearmotor with Brake
- Reducer (Double Shaft)
- S-Type Reducer
- Concentric Hollow Shaft Concentric Solid Shaft Performance Table Dimension
- Gearmotor with Brake
- Water-Resistant, Outdoor Gearmotor with Brake
- Reducer (Parallel Shaft)
- S-Type Reducer
- Technical Information
- Standard Motors
- Cautions for Safety
- Option
- GT-STEP Index Gearmotor
- KOMPASS Gearbox

GT-STEP

**Index
Gearmotor**

GT-STEP

Index Gearmotor

Technical Information

Technical Information

Wiring

Motor

Induction motors are employed for both 3-phase and 1-phase. The reversible wiring (with 3 lead wires) is adopted to all the 1-phase motors, therefore, forward/reverse rotation can easily be switched just like 3-phase motors.

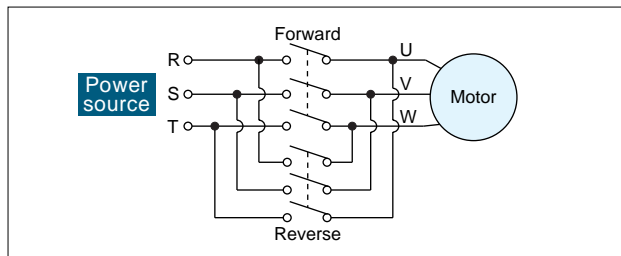
- Time rated : Continuous
- Protective cooling method: Totally enclosed or totally enclosed outer fan
- Insulation type : E type (B type for 0.2kW)

① Wiring of Capacitor

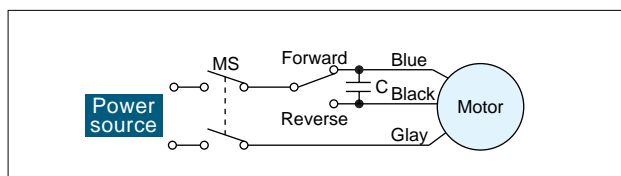
In case of operating with the power supply of 1-phase 100V, connect the capacitor•C enclosed with the products, as shown in the right figure.

② Wiring of Gearmotor with Brake

3-Phase Motor Motor Capacity Designation T25•T50•T90•T020



1-Phase Motor Motor Capacity Designation S25•S50•S90



Wiring Diagram		Braking delay time (second)	
No.	3-phase[200V]	1-phase[100V]	
1. DC Switching			0.005 ~ 0.015 <small>[The values indicate interval between switching-off and braking on. They are different from braking time.]</small>
2. AC Switching(A)			0.03 ~ 0.10
3. AC Switching(B)			0.1 ~ 0.2

M: Motor Br: Brake S: Rotation Changeover Switch C: Capacitor MS: Electro-Magnetic Switch -N: Surge Suppressor (option)

- Note**
- 1) For the application of vertical motion such as lifting, DC Switching wiring should be employed.
 - 2) It is recommended to insert surge suppressor between contact points in DC Switching circuit. (Varistor Voltage 423 ~ 517V)
 - 3) The electro-magnetic switch with the rated current of over 6A(AC200V) is recommended for the relay for brake circuit. In case DC Switching wiring is employed, in order to shield the inductive load (DC coil), DC110V, DC13 class is recommended. Also, in case of employing a noncontact relay, it is recommended to use the rated voltage of AC240V equivalent (half-wave rectification switching available).
 - 4) Since the rectifier contains diodes, improper wiring may cause fatal short-circuiting. Therefore, special care should be given to the wiring.

③ In case of changing speed by Inverter (Frequency changing device)

When using the GT-STEP in combination with inverter, abnormal temperature rise (over 80 °C on the surface of motor) may occur due to the decline of cooling function caused by slow down of fan speed. As for a gearmotors with brake, poor braking may occur due to fluctuations of voltage. To avoid this failure, be sure to bypass the inverter when wiring the brake. For more details, refer to page E44 " On Combination of Gearmotor and Inverter "

Brake Specifications

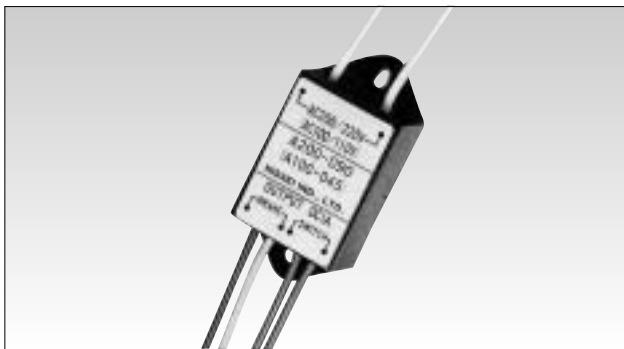
Items	Motor	3-phase				1-phase		
		25W	50W	90W	0.2kW	25W	50W	90W
Brake Type		"Power-off, Brake-on" Type (Spring Close)						
Rated torque N·m (at 1500 ~ 1800rpm)		0.37	0.37	0.54	1.57	0.37	0.37	0.54
Voltage(Average)		DC90V				DC45V		
Capacity(at 75) (W)		12		14		11		
Current(at 75) (A)		0.13		0.15		0.25		
Allowable Total Work Emax(J)		3×10^7		1.5×10^8		3×10^7		
Braking time (s)		0.25 ~ 0.35		0.1 ~ 0.2		0.25 ~ 0.35		
Allowable Braking Frequency		10 times/minute						

Note 1) Guideline values of allowable braking frequency for avoiding excessive motor temperature rise are given above. Braking frequency can be increased under light loads or where cooling of motor is sufficient enough. (Be sure to maintain the motor surface temperature below 80 °C.)

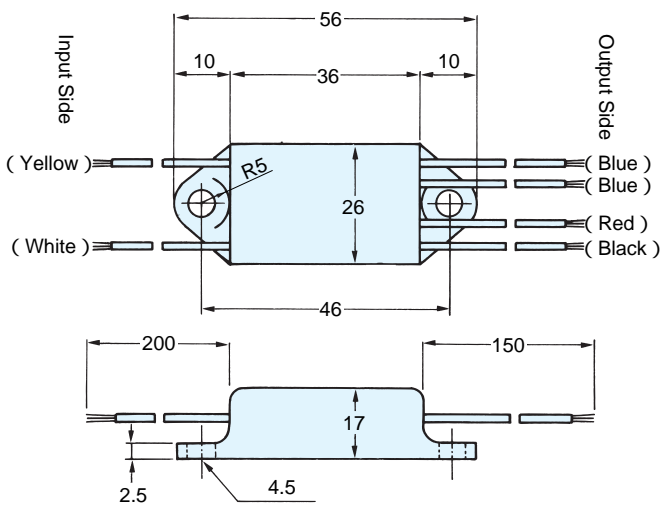
Note 2) Avoid continuous energizing to the brake coil while the motor stops.

Rectifier

Rectifier A200-D90(A100-45) comes with brake motor type is required for actuation of brake. Braking lag time differ depend on method for connection, so please choose according to page F20 as usage. Surge Suppressor comes to the rectifier, please add extra rectifier or moise filter.

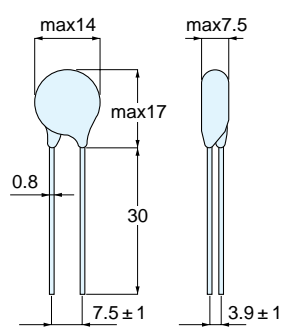
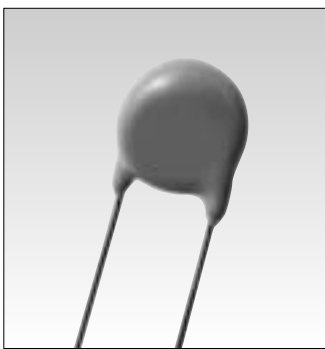


A200 - D90 Dimension Round Weight 40g (A100 - D45)



Surge Suppressor (Option) OP-ENE471D-10A

For use in cutting off the sparks of a brake switch for DC switching or AC line switching.



Parallel Shaft (Performance Table/Dimension)

Gearmotor with Brake

Water-resistant, Outdoor Gearmotor with Brake

Gearmotor with Clutch/Brake

Reducer (Double Shaft)

S-Type Reducer

Right Angle Shaft (Performance Table/Dimension)

Gearmotor with Brake

Water-resistant, Outdoor Gearmotor with Brake

Gearmotor with Clutch /Brake

Reduce (Double Shaft)

S-Type Reducer

Hollow Shaft Solid Shaft Performance Table/Dimension

Gearmotor with Brake

Water-Resistant, Outdoor Gearmotor with Brake

Reduce (Double Shaft)

S-Type Reducer

Concentric Hollow Shaft Concentric Solid Shaft Performance Table/Dimension

Gearmotor with Brake

Water-Resistant, Outdoor Gearmotor with Brake

Reducer (Parallel Shaft)

S-Type Reducer

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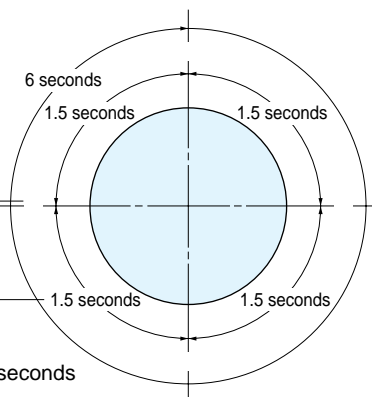
GT-STEP Index Gearmotor

KOMPASS Gearbox

Number of Stop and Nominal Cycle Time

The " Number of Stop " means the times of plot (stop) during the output shaft's one rotation, while the " Nominal Cycle Time " means the total hour of one cycle (rotate and stop). Therefore, the value of multiplying the number of stop by the nominal cycle time equal to the time consumed(second) in the output shaft's one rotation. Also, there is a formula, namely, (Operating Time) : (Stopping Time) = 1 : 2

Example
 Number of stop : n = 4
 Nominal Cycle Time : St = 1.5 seconds
 (operating time = 0.5 seconds)
 (stopping time = 1.0 seconds)
 Time consumed in output shaft's one rotation : n x St = 6 seconds



Since the nominal cycle values used in the type code are the ones under the input speed of 1,800/hour, in case of operating the machine in the 50Hz area, refer to the table shown below for quick reference:

(Unit: Seconds)

60Hz(Nominal)	1	1.5	2	3	4	5	6	8	10	12	16	20	24
50Hz	1.2	1.8	2.4	3.6	4.8	6.0	7.2	9.6	12.0	14.4	19.2	24.0	28.8

Cam Curve

In GT-STEP, Geneva Gear is built-in. The shift(S), velocity(V) and acceleration(A) in the operating time can be obtained by the formula below.

n.....Number of stop St.....Nominal Cycle Time

1) Shift [S]

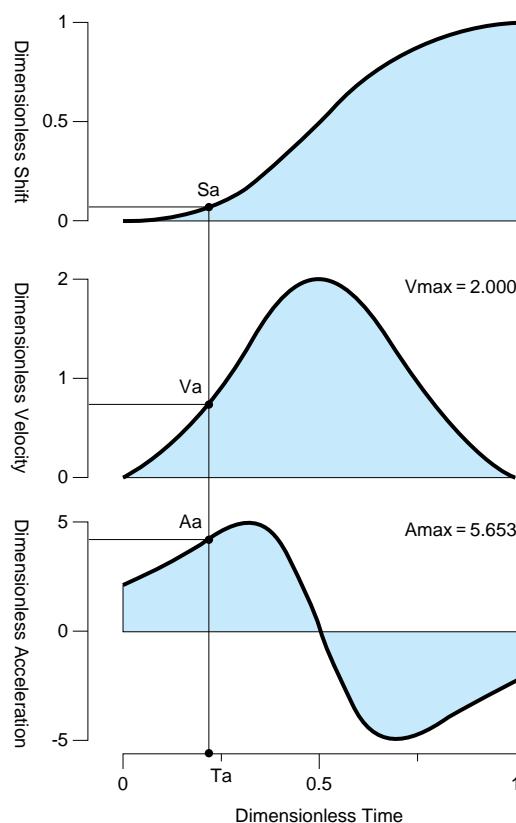
$$S = \frac{2}{n} Sa \text{ (rad)} \quad S = \frac{360Sa}{n} \text{ (} ^\circ \text{)}$$

2) Velocity [V]

$$V = \frac{6}{n \cdot St} Va \text{ (rad/sec)} \quad V = \frac{1080Va}{n \cdot St} \text{ (} \text{ }^\circ\text{/s)} \text{)}$$

3) Acceleration [A]

$$A = \frac{18}{n \cdot St^2} Aa \text{ (rad/sec}^2\text{)} \quad A = \frac{3240Aa}{n \cdot St^2} \text{ (} \text{ }^\circ\text{/s}^2\text{)}$$



- Parallel Shaft (Performance Table/Dimension)
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- Gearmotor with Brake
- Water-resistant, Outdoor Gearmotor with Brake
- Gearmotor with Clutch/Brake
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- S-Type Reducer
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- Gearmotor with Brake
- Water-resistant, Outdoor Gearmotor with Brake
- Reduce (Double Shaft)
- S-Type Reducer
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Technical Information

Allowable Inertia Moment I

When operating gearmotor under high load inertia, critical torque may arise transiently at starting (or at stopping in gearmotors with brake). And this may cause unexpected accident and failure such as damage to the gear, etc. Therefore, be sure to operate gearmotor within the allowable value in the performance table.

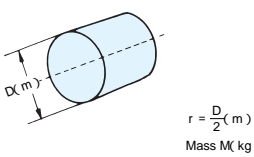
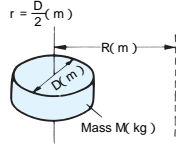
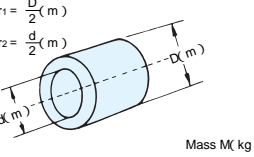
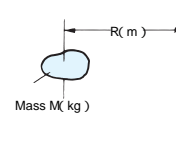
① Calculation Method for the Inertia Moment

The inertia moment I (kg·m²) of SI Unit can be converted into the GD²(kgf·m²) of gravimetric unit with the following formula:

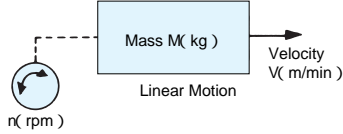
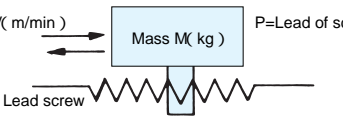
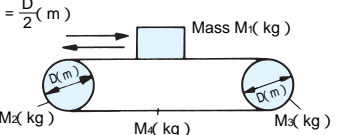
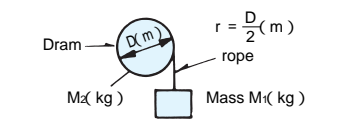
$$I = \frac{GD^2}{4}$$

G : Gravity (kgf)
 D : Diameter of Rotation (m)
 I : Inertia Moment (kg·m²)

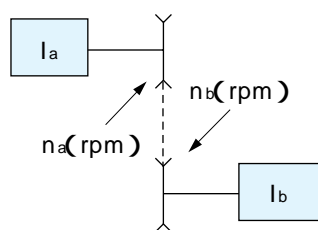
Inertia Moment I in Rotating Object

When the center of rotation is concentric with the center of gravity		When the center of rotation is not concentric with the center of gravity	
	SI Unit		SI Unit
 <p>$r = \frac{D}{2} (m)$ Mass M (kg)</p>	$I = \frac{1}{2} Mr^2$ (kg·m ²)	 <p>$r = \frac{D}{2} (m)$ R (m) Mass M (kg)</p>	$I = \frac{1}{2} Mr^2 + MR^2$ (kg·m ²)
 <p>$r_1 = \frac{D_1}{2} (m)$ $r_2 = \frac{D_2}{2} (m)$ Mass M (kg)</p>	$I = \frac{1}{2} M(r_1^2 + r_2^2)$ (kg·m ²)	 <p>R (m) Mass M (kg)</p>	(when you can ignore size) $I = MR^2$ (kg·m ²)

Inertia Moment I in case of Linear Motion

	SI Unit
Normal Use  <p>Mass M (kg) Velocity V (m/min) Linear Motion r (rpm)</p>	$I = \frac{1}{4} M \cdot \left(\frac{V}{\pi \cdot n} \right)^2$ (kg·m ²)
Use in Horizontal Movement (Mass driven by lead screw)  <p>V (m/min) Mass M (kg) P=Lead of screw (m/rev) Lead screw</p>	$I = \frac{1}{4} M \cdot \left(\frac{P}{\pi} \right)^2$ $= \frac{1}{4} M \cdot \left(\frac{V}{\pi \cdot n} \right)^2$ (kg·m ²)
Use in Horizontal Movement (Conveyors, etc.)  <p>$r = \frac{D}{2} (m)$ Mass M1 (kg) M2 (kg)</p>	$I = M_1 r^2 + \frac{1}{2} M_2 r^2$ $+ \frac{1}{2} M_3 r^2 + M_4 r^2$ (kg·m ²)
Use in Vertical Movement (cranes, winches, etc.)  <p>Drum rope $r = \frac{D}{2} (m)$ M2 (kg) Mass M1 (kg)</p>	$I = M_1 r^2 + \frac{1}{2} M_2 r^2$ (kg·m ²)

Conversion of Inertia Moment in case of Speed Ratio



The inertia moment I_b of the load can be converted into the value at the n_a shaft as follows:

$$I = I_a + \left(\frac{n_b}{n_a} \right)^2 \times I_b$$

Overhung Load (O.H.L.)

An overhung load is a suspending load imposed on a shaft. In the coupling of reducer shaft and other machine, if chains, belts and gears are used, this O.H.L. must be taken into consideration.

Be sure that the OHL value calculated by the formula below should not exceed the allowable OHL value listed in the performance table.

$$O.H.L. = \frac{T \times K_1 \times K_2}{R} (N)$$

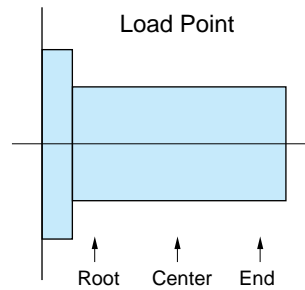
- T : Torque imposed on reducer shaft (N·m)
- R : Pitch Circle Radius(m) of sprocket, pulley, gear, etc. attached to reducer shaft.
- K₁ : Factor by the connecting method (Refer to Table-1)
- K₂ : Factor by the load point (Refer to Table-2)

Factor K₁ Table - 1

Connecting Method	K ₁
Chain, Timing Belt	1.00
Gear	1.25
V-Belt	1.50

Factor K₂ Table - 2

Load Point	K ₂
Root of shaft	0.75
Center of shaft	1.00
End of shaft	1.50



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Reducer (Double Shaft)

S-Type Reducer

Right Angle Shaft
(Performance Table/Dimension)

Gearmotor with Brake

Water-resistant, Outdoor Gearmotor with Brake

Gearmotor with Clutch /Brake

Reduce (Double Shaft)

S-Type Reducer

Hollow Shaft
Solid Shaft
Performance Table/Dimension

Gearmotor with Brake

Water-Resistant, Outdoor Gearmotor with Brake

Reduce (Double Shaft)

S-Type Reducer

Concentric Hollow Shaft
Concentric Solid Shaft
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