

4GY Dimensions

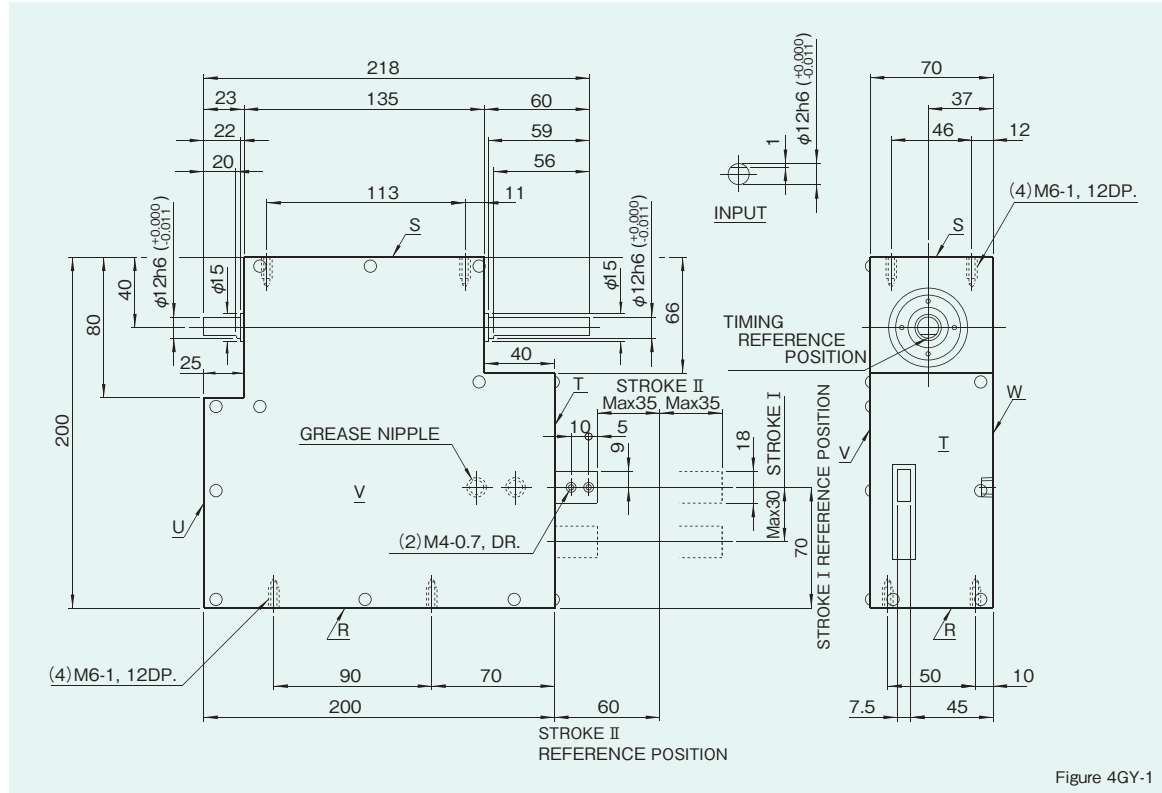
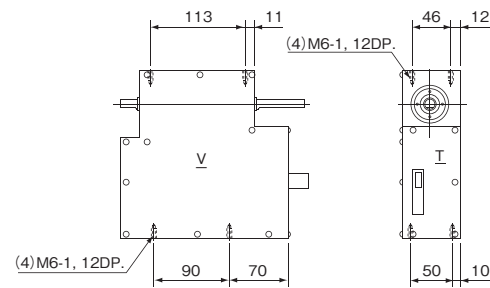


Figure 4GY-1

Mounting hole locations

Figure 4GY-2



Dimention of R,S surface

Specifications

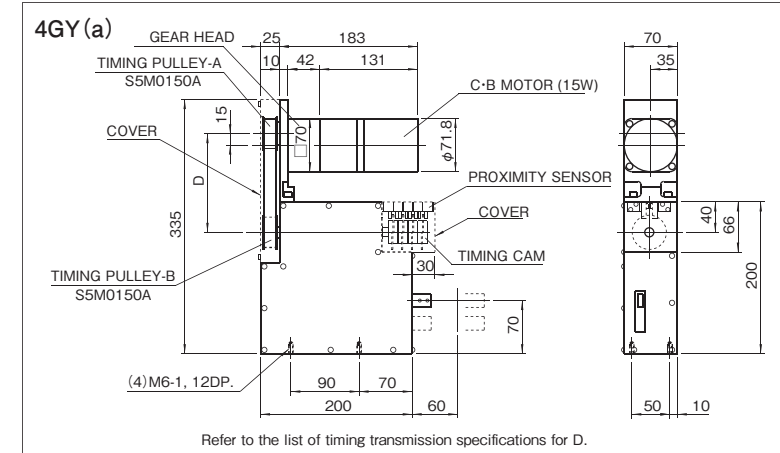
Table 4GY-1

Item	Symbol	Unit	Value	Item	Symbol	Unit	Value	Item	Symbol	Unit	Value
Output allowable load, stroke I, II	W_0	N	Refer to Carrying Capacity Table	Input allowable axial load	P_2	N	416.5	Housing color			Beige
Output static allowable load in the direction of V and W surface	P_1	N	93.1	Input maximum repetitious bending force	P_3	N	323.4	Product weight		kg	5.2
Output bending rigidity in the direction of V and W surface	K_1	mm/N	2.04×10^{-2}	Input maximum repetitious allowable torque	P_4	N·m	29.4	Repetitive accuracy		mm	± 0.02
Output internal load, stroke I	W_{a1}	N	7.9	Input torsional rigidity	K_2	N·m/rad	3234				
Output internal load, stroke II	W_{a2}	N	4.5	Input inertia	J_1	kg·m ²	2.75×10^{-4}	Grease lubrication			

Note : Input inertia : J is calculated in dwell.

(1N=0.102kgf)

Option (Miniature motor mounting specifications)



Refer to the list of timing transmission specifications for D.

Timing transmission specifications

Table 4GY-4

Timing pulley reduction ratio	Pulley A Number of teeth	Pulley B Number of teeth	D (mm)	Belt model
1	24	24	128	S5M375 75teeth
1.09	22	24	130	"
1.2	20	24	133	"
1.25	24	30	133	S5M400 80teeth
1.33	18	24	135	S5M375 75teeth
1.44	18	26	133	"
1.56	18	28	130	"
1.67	18	30	128	"

Induction motor specifications

Table 4GY-2

Type	Maker	Motor model	Output power (W)	Frequency (Hz)	Voltage (V)	Current (A)	Starting torque (N·m)	Rated torque (N·m)	Rotating speed (rpm)	Capacitor (μ F)	Gear head model
No clutch and brake With clutch and brake	Panasonic	M7IA15G4L	15	50 60	100	0.36 0.34	0.088	0.127 0.088	1300 1600	4.0	M7GA□B
		M7CBA15G4L									M7GB□B-CB

●The figures in the □ indicate gear ratio. (1N·m=0.102kgf·m)

Gear head rotating speed and speed and gear ratio

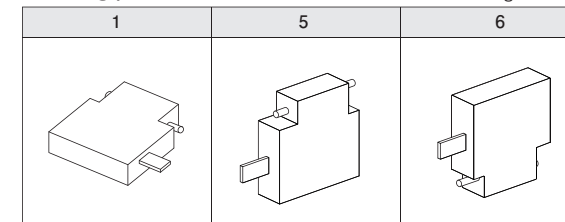
Table 4GY-3

Cam shaft rotating speed	10	20	30	40	50	60	70	80	90	100	110	120
50Hz	Pulley gear ratio	1.33	1.33	1.25	1.2	1.09	1.25	1.33	1.67	1.44	1.67	1.56
	Gear head ratio	100	50	36	30	25	18	15	10	9	9	7.5
60Hz	Pulley gear ratio	1.33	1.33	1.09	1.33	1.33	1.44	1.33	1.44	1.44	1.67	1.56
	Gear head ratio	120	60	50	30	25	20	18	15	12.5	10	9

●Use a 25 W motor for speeds above 80 rpm.

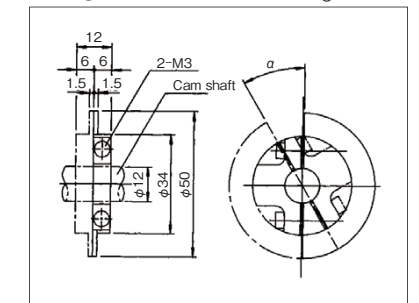
Mounting positions

Figure 4GY-4



Timing cam dimensions

Figure 4GY-5



6GY Dimensions

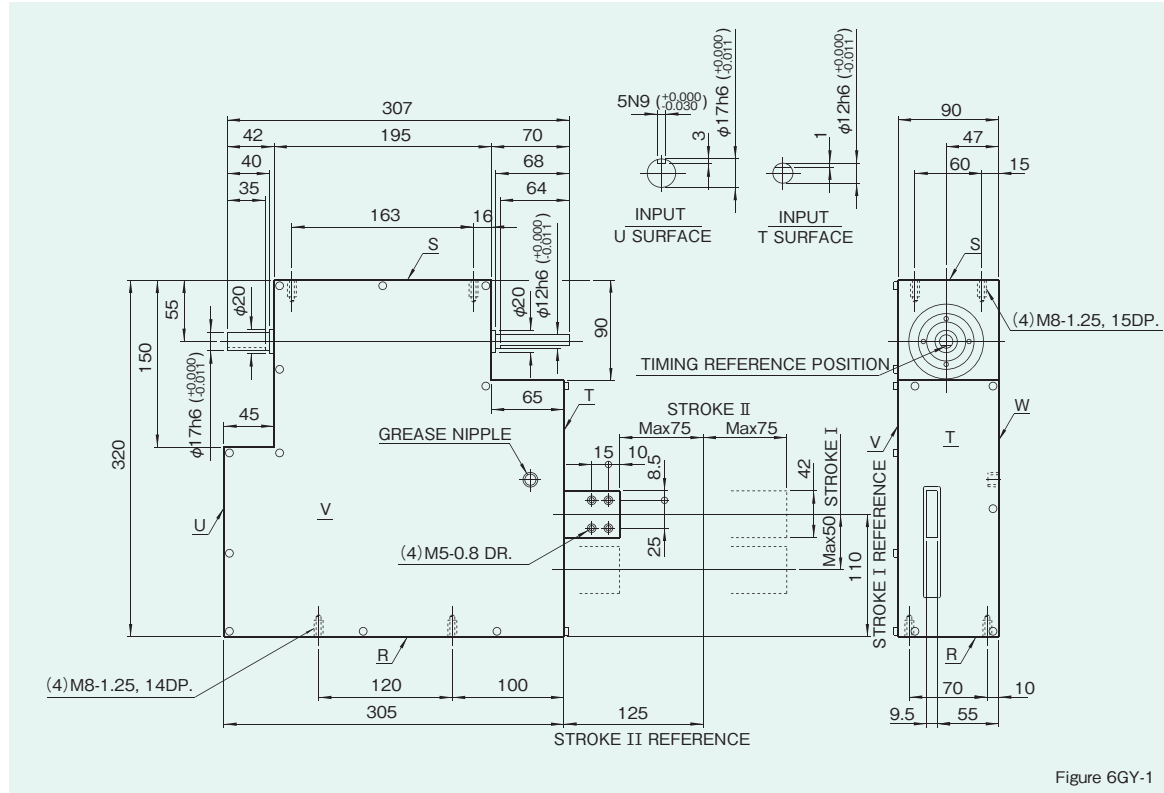
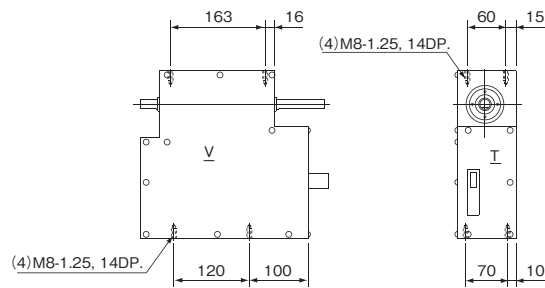


Figure 6GY-1

Mounting hole locations

Figure 6GY-2



Dimension of R,S surface

Specifications

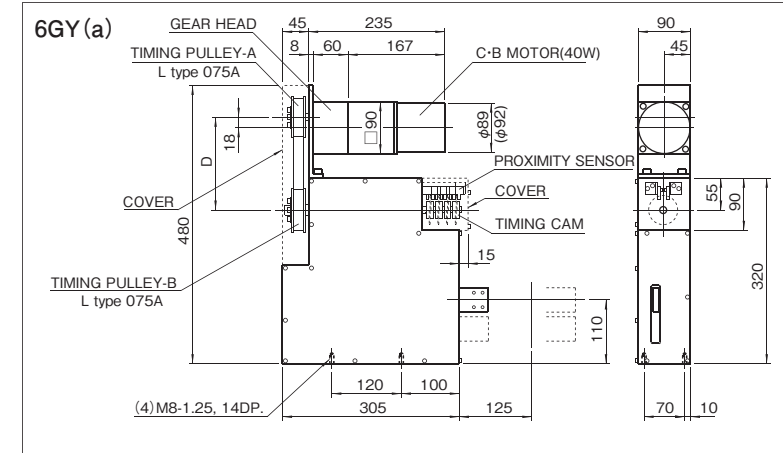
Table 6GY-1

Item	Symbol	Unit	Value	Item	Symbol	Unit	Value	Item	Symbol	Unit	Value
Output allowable load, stroke I, II	W ₀	N	Refer to Carrying Capacity Table	Input allowable axial load	P ₂	N	911.4	Housing color			Beige
Output static allowable load in the direction of V and W surface	P ₁	N	225.4	Input maximum repetitious bending force	P ₃	N	1078	Product weight		kg	25
Output bending rigidity in the direction of V and W surface	K ₁	mm/N	1.53×10 ⁻²	Input maximum repetitious allowable torque	P ₄	N·m	88.2	Repetitive accuracy		mm	±0.02
Output internal load, stroke I	W _{a1}	N	29.4	Input torsional rigidity	K ₂	N·m/rad	6370				
Output internal load, stroke II	W _{a2}	N	16.7	Input inertia	J ₁	kg·m ²	1.51×10 ⁻³	Grease lubrication			

Note : Input inertia : J is calculated in dwell.

(1N=0.102kgf)

Option (Miniature motor mounting specifications)



Timing transmission specifications

Table 6GY-4

Timing pulley reduction ratio	Pulley A Number of teeth	Pulley B Number of teeth	D (mm)	Belt model
1	22	22	162	210L 56teeth
1.1	22	24	158	〃
1.2	20	24	162	〃
1.26	19	24	165	〃
1.3	20	26	157	〃
1.33	18	24	167	〃
1.44	18	26	162	〃

Induction motor specifications

Table 6GY-2

Type	Maker	Motor model	Output power (W)	Frequency (Hz)	Voltage (V)	Current (A)	Starting torque (N·m)	Rated torque (N·m)	Rotating speed (rpm)	Capacitor (μF)	Gear head model
No clutch and brake	Oriental motor	51K40GN-A	40	50	100	0.8	0.2	0.3	1300	10.0	5GN□K
		CB1540-701									5GC□K
With clutch and brake	Panasonic	M91A40G4L	40	50	100	0.87	0.235	0.304	1250	10.0	M9GA□B
		M9CB1A40G4L									M9GB□B-CB

●The figures in the □ indicate gear ratio.

(1N·m=0.102kgf·m)

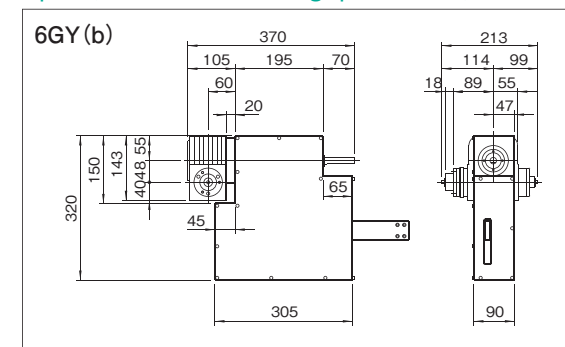
Gear head rotating speed and speed and gear ratio

Table 6GY-3

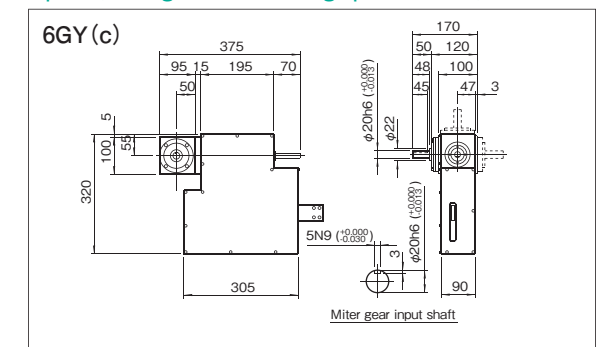
Cam shaft rotating speed	10	20	30	40	50	60	70	80	
50Hz	Pulley gear ratio	1.33	1.33	1.26	1.2	1.1	1.26	1.33	1.44
	Gear head ratio	100	50	36	30	25	18	15	12.5
60Hz	Pulley gear ratio	1.33	1.33	1.1	1.33	1.33	1.1	1.33	1.44
	Gear head ratio	120	60	50	30	25	25	18	15

●Use a 60 W motor for speeds above 70 rpm.

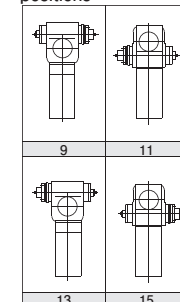
Option (Reducer R48 mounting specifications)



Option (Miter gearbox mounting specifications)



Reducer mounting positions



Mounting positions

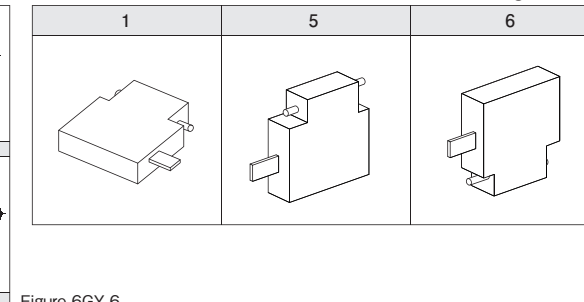
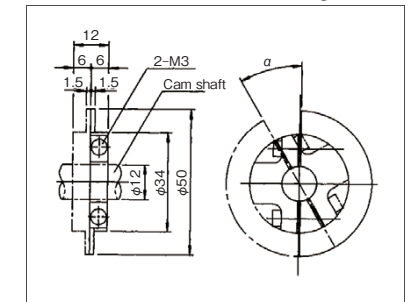


Figure 6GY-7

Timing cam dimension

Figure 6GY-8



8GY Dimensions

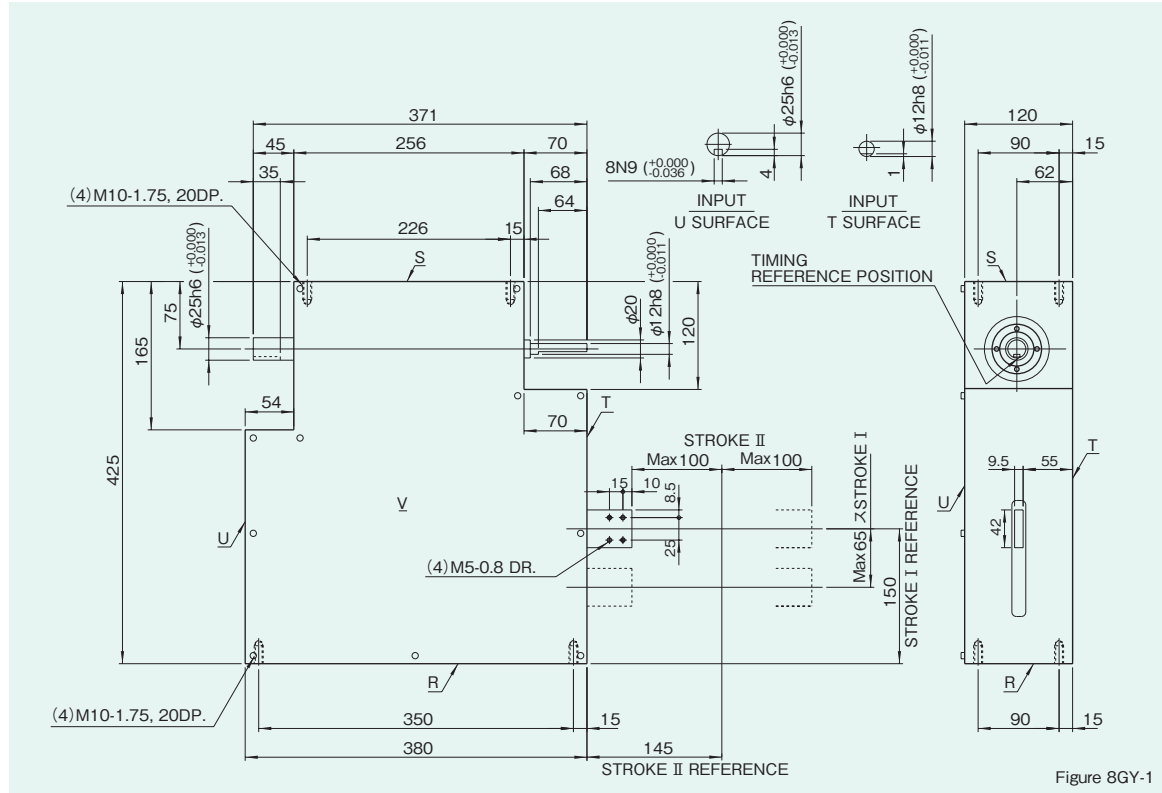
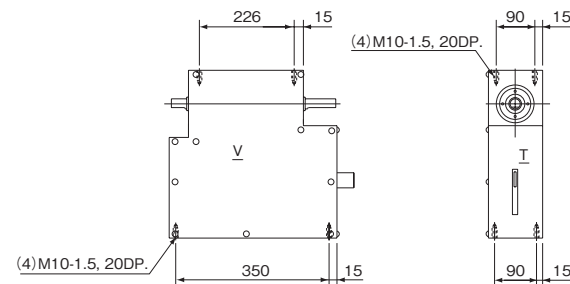


Figure 8GY-1

Mounting hole locations

Figure 8GY-2



Dimension of R,S surface

Specifications

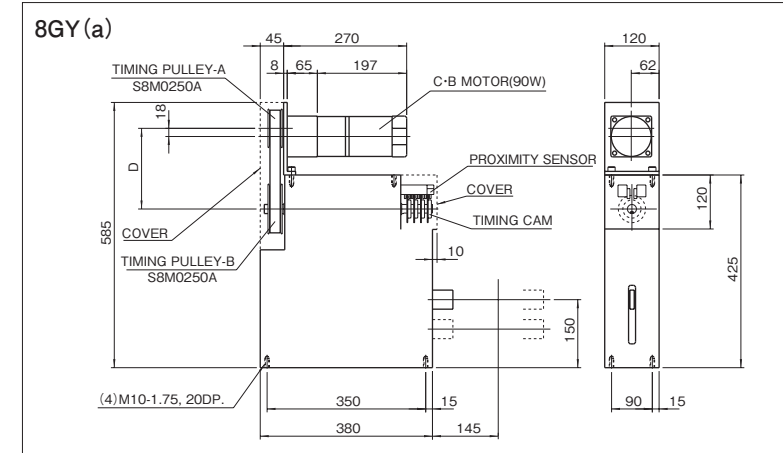
Table 8GY-1

Item	Symbol	Unit	Value	Item	Symbol	Unit	Value	Item	Symbol	Unit	Value
Output allowable load, stroke I, II	W ₀	N	Refer to Carrying Capacity Table	Input allowable axial load	P ₂	N	2000	Housing color			Beige
Output static allowable load in the direction of V and W surface	P ₁	N	433	Input maximum repetitious bending force	P ₃	N	2000	Product weight		kg	64
Output bending rigidity in the direction of V and W surface	K ₁	mm/N	1.0×10 ⁻²	Input maximum repetitious allowable torque	P ₄	N·m	98	Repetitive accuracy		mm	±0.02
Output internal load, stroke I	W _{a1}	N	43.1	Input torsional rigidity	K ₂	N·m/rad	10000				
Output internal load, stroke II	W _{a2}	N	22.5	Input inertia	J ₁	kg·m ²	11.6×10 ⁻³	Grease lubrication			

Note : Input inertia : J is calculated in dwell.

(1N=0.102kgf)

Option (Miniature motor mounting specifications)



Induction motor specifications

Table 8GY-2

Type	Maker	Motor model	Output power (W)	Frequency (Hz)	Voltage (V)	Current (A)	Starting torque (N·m)	Rated torque (N·m)	Rotating speed (rpm)	Capacitor (μF)	Gear head model
No clutch and brake With clutch and brake	Oriental motor	51K90GU-AF	90	50	100	2.0	0.45	0.68	1300	25.0	5GU□KB
		CB1590-801	60	60	100	1.6	0.57	0.519	1550	25.0	5GCH□KB
No clutch and brake With clutch and brake	Panasonic	M91C90G4L	90	50	100	1.6	0.470	0.637	1300	25.0	M9GD□B
		M9CB1C90G4L	60	60	100	1.7	0.519	0.519	1550	25.0	M9GE□B-KB

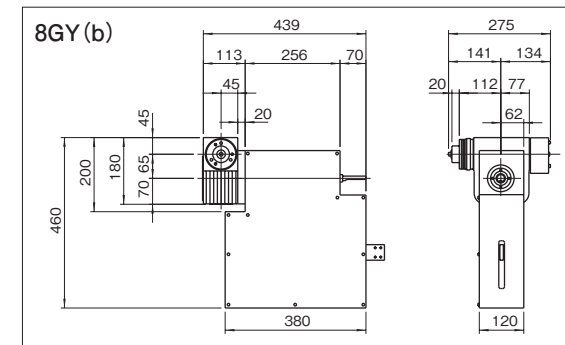
●The figures in the □ indicate gear ratio. (1N·m=0.102kgf·m)

Gear head rotating speed and speed and gear ratio

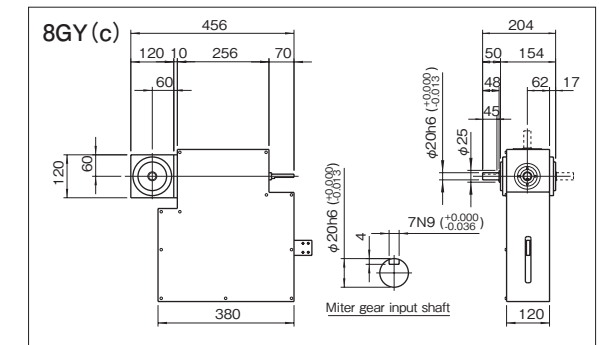
Table 8GY-3

Cam shaft rotating speed	10	20	30	40	50	60	70	80
50Hz Pulley gear ratio	1.50	1.82	1.50	1.82	1.50	1.50	1.58	1.42
50Hz Gear head ratio	90	36	30	18	18	15	12.5	12.5
60Hz Pulley gear ratio	1.67	1.67	1.50	1.67	1.82	1.50	1.58	1.67
60Hz Gear head ratio	100	50	36	25	18	18	15	12.5

Option (Reducer R48 mounting specifications)



Option (Miter gearbox mounting specifications)



Reducer mounting positions

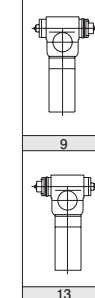


Figure 8GY-6

Mounting positions

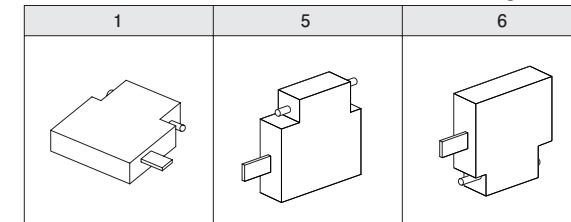


Figure 8GY-7

Timing transmission specifications

Table 8GY-4

Timing pulley reduction ratio	Pulley A Number of teeth	Pulley B Number of teeth	D (mm)	Belt model
1.42	24	34	199.5	S8M632 79teeth
1.50	24	36	195	S8M632 79teeth
1.58	24	38	203	S8M656 82teeth
1.67	24	40	199	S8M656 82teeth
1.82	22	40	202.5	S8M656 82teeth

Clutch and brake specifications

Table 8GY-5

Item	Motor	
	Clutch	Brake
Static frictional torque	1.5N·m	
Dynamic frictional torque	1.0N·m	
Rated voltage	DC24V	
Power consumption (at 75°C)	7W	5W
Armature pull - in time	15msec	
Armature release time	25msec	
Actual torque build - up time	20msec	
Repetition rate	Max. 100 times/min	
Total energy	1.47×10 ⁷ J	
Allwable energy at one time	1.47J	

8GYII Dimensions

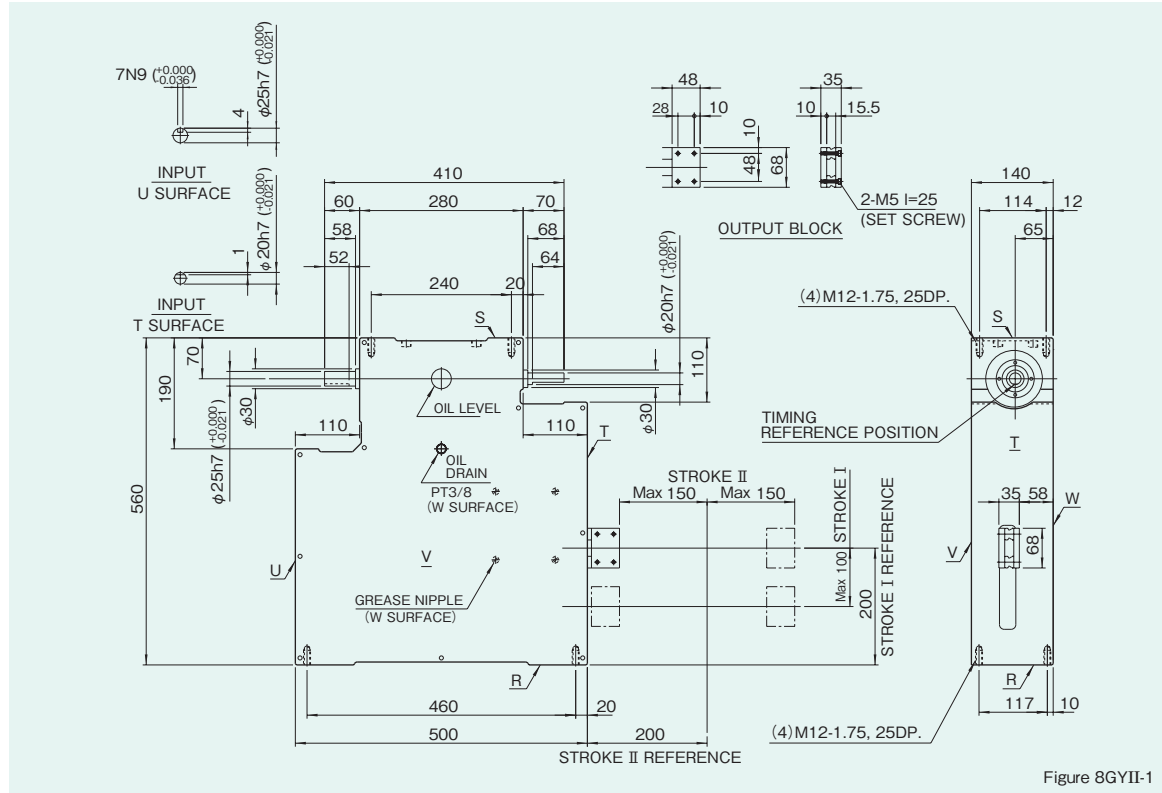
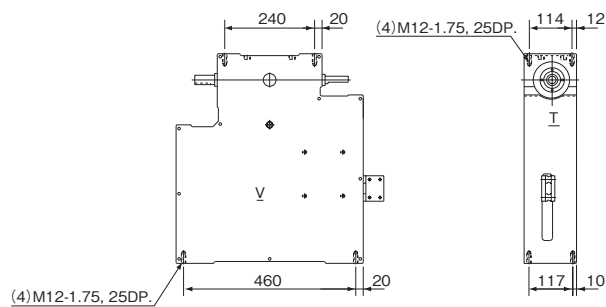


Figure 8GYII-1

Mounting hole locations

Figure 8GYII-2



Specifications

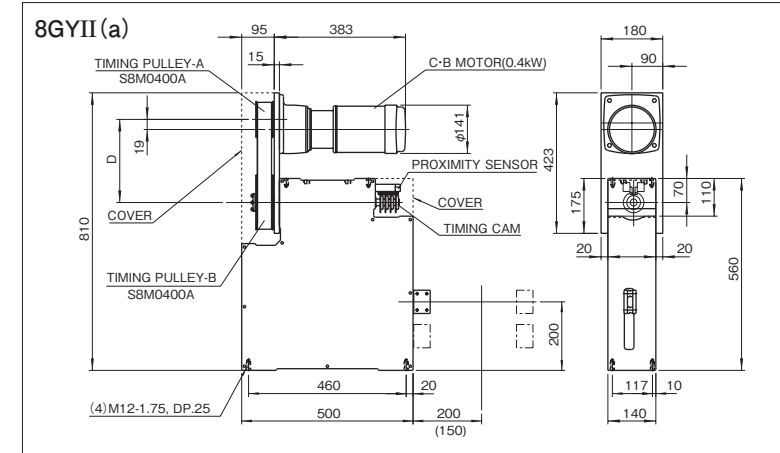
Table 8GYII-1

Item	Symbol	Unit	Value	Item	Symbol	Unit	Value	Item	Symbol	Unit	Value
Output allowable load, stroke I, II	W_0	N	Refer to Carrying Capacity Table	Input allowable axial load	P_2	N	2800	Housing color			Beige
Output static allowable load in the direction of V and W surface	P_1	N	312	Input maximum repetitious bending force	P_3	N	2700	Product weight	kg		95
Output bending rigidity in the direction of V and W surface	K_1	mm/N	1.50×10^{-2}	Input maximum repetitious allowable torque	P_4	N·m	173	Repetitive accuracy	mm		± 0.02
Output internal load, stroke I	W_{a1}	N	64.7	Input torsional rigidity	K_2	N·m/rad	20000				
Output internal load, stroke II	W_{a2}	N	24.5	Input inertia	J_1	kg·m ²	1.24×10^{-2}	Grease lubrication			

Note : Input inertia : J is calculated in dwell.

(1N=0.102kgf)

Option (Miniature motor mounting specifications)



Induction motor specifications

Table 8GYII-2

Type	Maker	Motor model	Output power (W)	Frequency (Hz)	Voltage (V)	Current (A)	Rotating speed (rpm)
No clutch and brake	Nissei	G3FM	400	50	100	2.1	1400
		G3FE		60	200/220	1.8/1.9	1690/1710

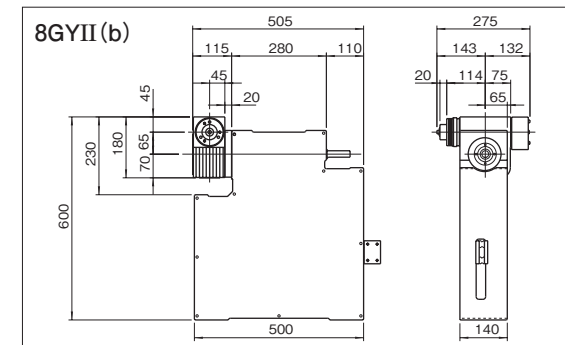
•The figures in the □ indicate gear ratio. (1N·m=0.102kgf·m)

Gear head rotating speed and speed and gear ratio

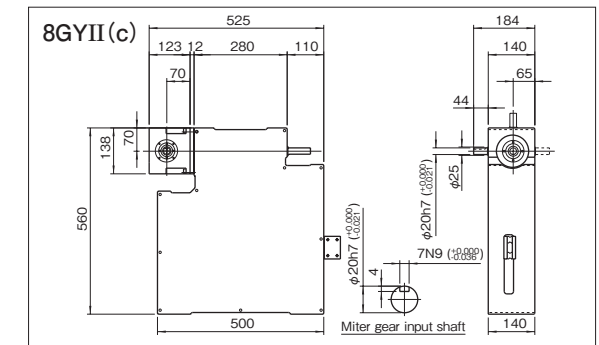
Table 8GYII-3

Cam shaft rotating speed	10	20	30	40	50	60
50Hz	Pulley gear ratio	1.36	1.36	1.58	1.36	1.36
	Gear head ratio	100	50	30	25	20
60Hz	Pulley gear ratio	1.67	1.67	1.36	1.58	1.67
	Gear head ratio	100	50	40	25	20

Option (Reducer R65 mounting specifications)



Option (Miter gearbox mounting specifications)



Reducer mounting positions

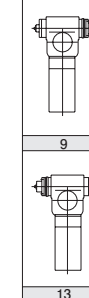


Figure 8GYII-6

Mounting positions

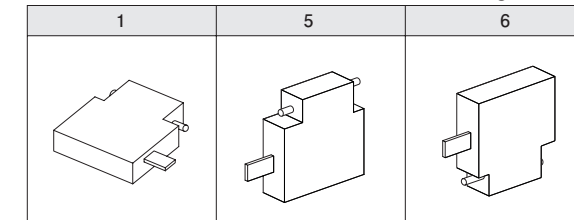


Figure 8GYII-7

Timing transmission specifications

Table 8GYII-4

Timing pulley reduction ratio	Pulley A Number of teeth	Pulley B Number of teeth	D (mm)	Belt model
1.2	50	60	228	S8M896 112teeth
1.25	48	60	232	S8M896 112teeth
1.36	44	60	231	S8M880 110teeth
1.58	38	60	226	S8M848 106teeth
1.67	36	60	230	S8M848 106teeth

Clutch and brake specifications

Table 8GYII-5

Item	Motor	
	Clutch	400W Brake
Static frictional torque	3.9N·m	
Dynamic frictional torque	3.1N·m	
Rated voltage	DC90V	
Power consumption (at 75°C)	6W	16W
Armature pull - in time	15msec	
Armature release time	15msec	
Actual torque build - up time	50msec	
Repetition rate	Max. 50 times/min	
Total energy	2.2×10 ⁸ J	
Allwable energy at one time	27J	

6GV Dimensions

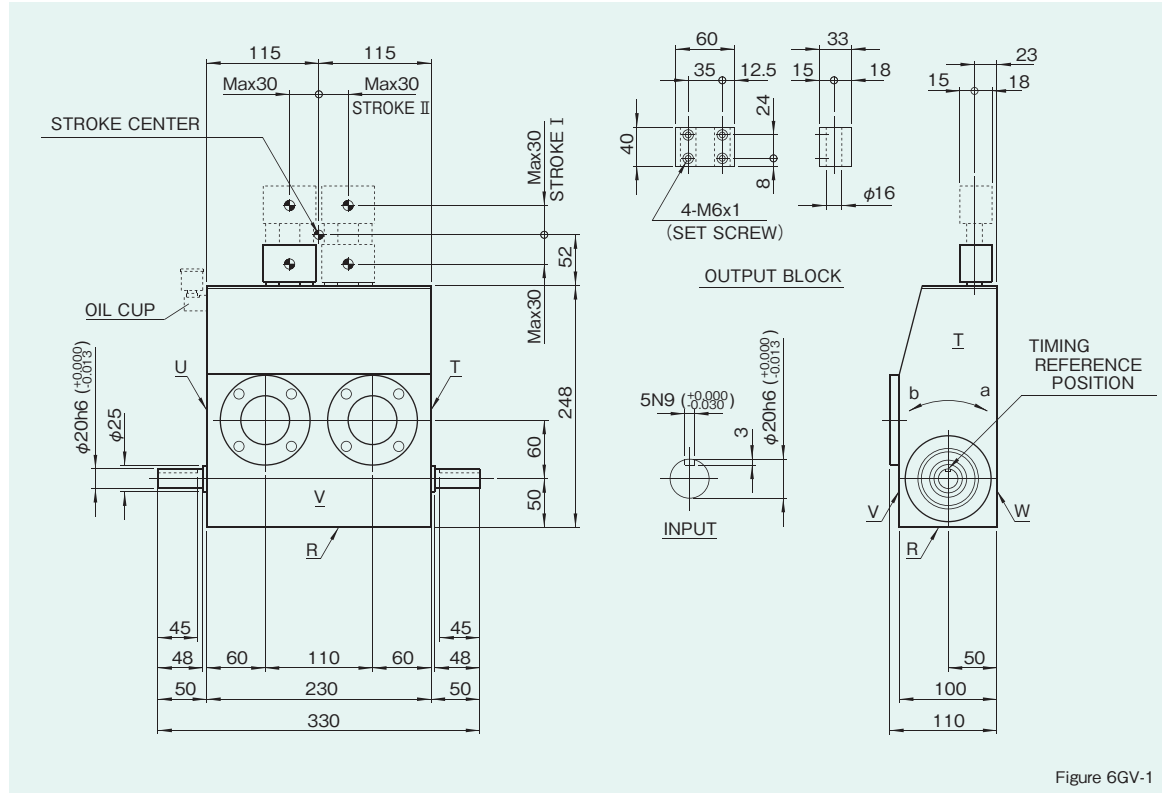
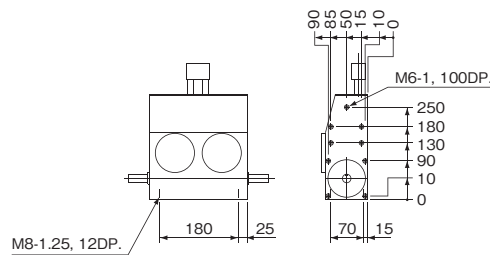


Figure 6GV-1

Mounting hole locations

Figure 6GV-2



Dimension of R, T and U surface

Specifications

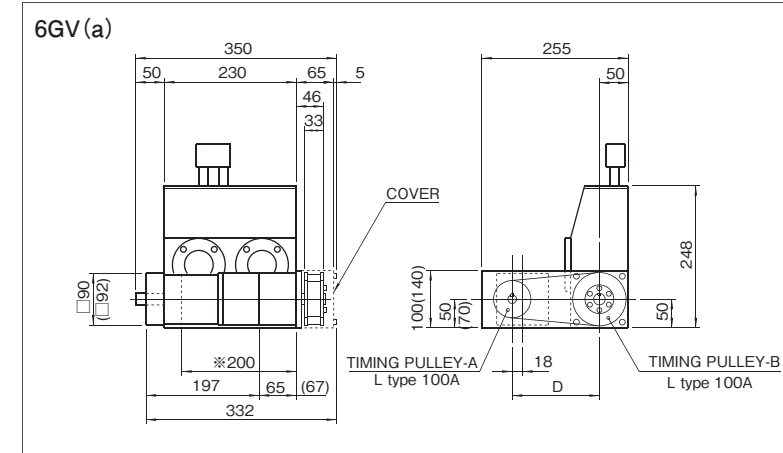
Table 6GV-1

Item	Symbol	Unit	Value	Item	Symbol	Unit	Value	Item	Symbol	Unit	Value
Output allowable load, stroke I, II	W_0	N	Refer to Carrying Capacity Table	Input allowable axial load	P_2	N	1078	Housing color			Gray
Output static allowable load in the direction of V and W surface	P_1	N	147	Input maximum repetitious bending force	P_3	N	1274	Product weight		kg	24
Output bending rigidity in the direction of V and W surface	K_1	mm/N	2.65×10^{-4}	Input maximum repetitious allowable torque	P_4	N·m	107.8	Repetitive accuracy		mm	± 0.02
Output internal load, stroke I	W_{a1}	N	19.6	Input torsional rigidity	K_2	N·m/rad	1.42×10^4				
Output internal load, stroke II	W_{a2}	N	24.5	Input inertia	J_1	kg·m ²	3.5×10^{-3}	Grease lubrication			

Note : Input inertia : J is calculated in dwell.

(1N=0.102kgf)

Option (Miniature motor mounting specifications)



Induction motor specifications

Table 6GV-2

Type	Maker	Motor model	Output power (W)	Frequency (Hz)	Voltage (V)	Current (A)	Starting torque (N·m)	Rated torque (N·m)	Rotating speed (rpm)	Capacitor (μF)	Gear head model
No clutch and brake With clutch and brake	Oriental	51K90GU-AF	90	50	100	2.0	0.45	0.68	1300	25.0	5GU□KB
		CB1590-801	60	60	100	1.6	0.57	0.57	1550	25.0	5GCH□KB
No clutch and brake With clutch and brake	Panasonic	M91C90G4L	90	50	100	1.6	0.470	0.637	1300	25.0	M9GD□B
		M9CB1C90G4L	60	60	100	1.7	0.519	0.519	1550	25.0	M9GE□B-KB

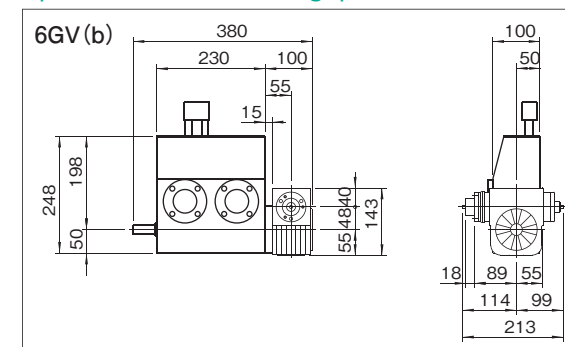
●The figures in the □ indicate gear ratio. (1N·m=0.102kgf·m)

Gear head rotating speed and speed and gear ratio

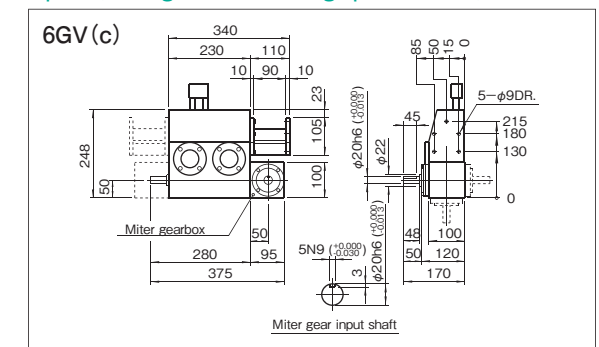
Table 6GV-3

Cam shaft rotating speed	10	20	30	40	50	60	70	80		
50Hz	Pulley gear ratio		1.33	1.33	1.24	1.18	1.08	1.24	1.33	1.4
	Gear head ratio		100	50	36	30	25	18	15	12.5
60Hz	Pulley gear ratio		1.33	1.33	1.08	1.18	1.08	1.08	1.33	1.4
	Gear head ratio		120	60	50	36	30	25	18	15

Option (Reducer R48 mounting specifications)

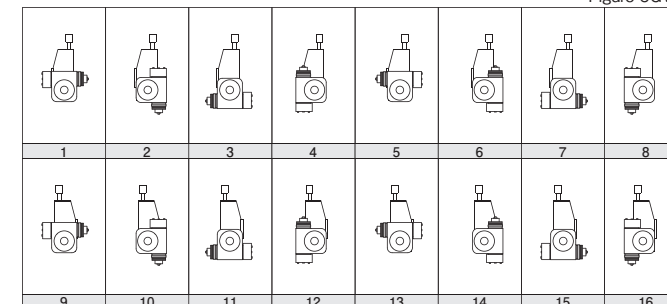


Option (Miter gearbox mounting specifications)



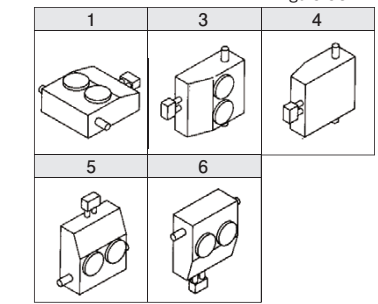
Reducer mounting positions

Figure 6GV-6



Mounting positions

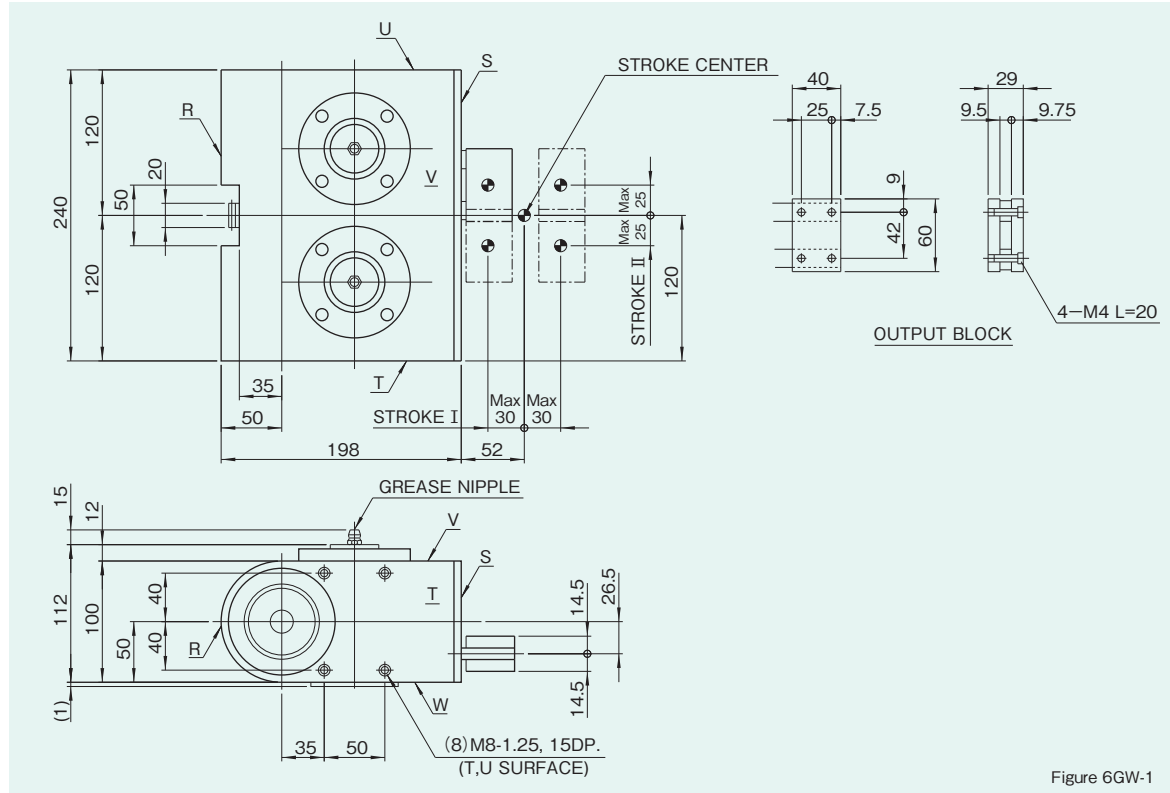
Figure 6GV-7



Parts Handler 6GW

SANDEX

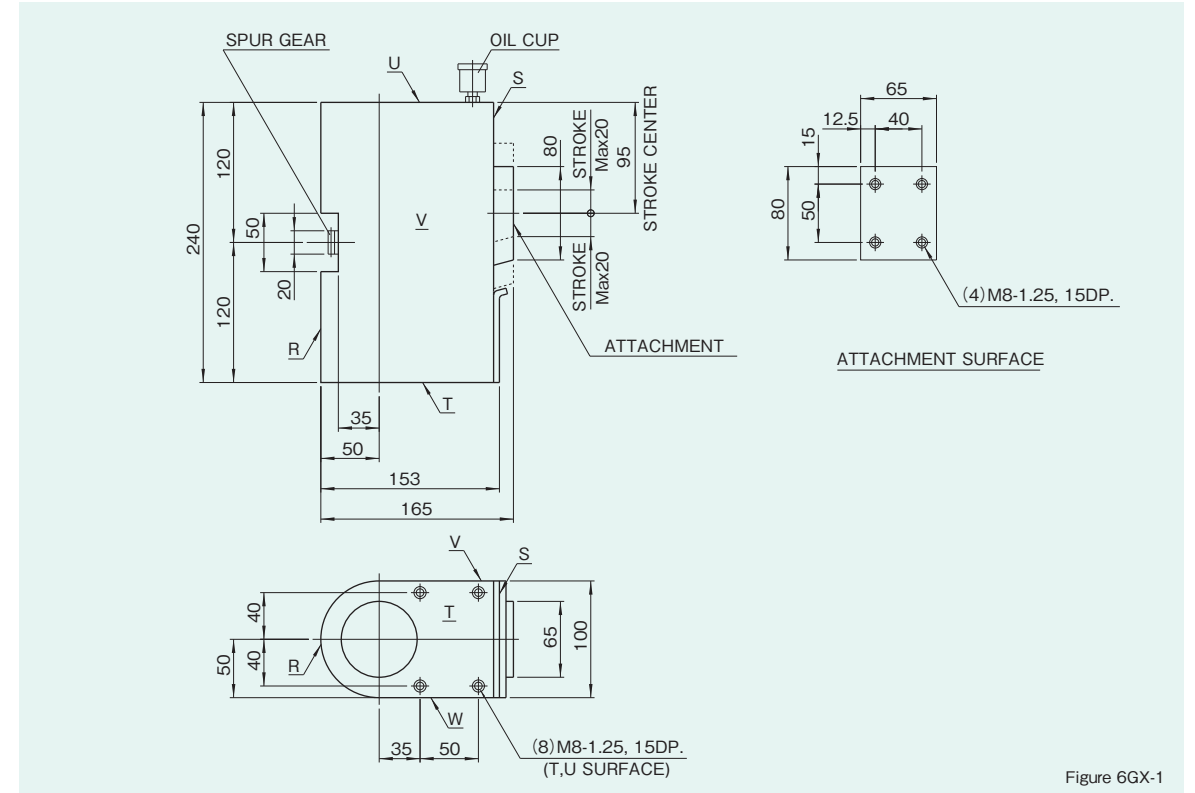
6GW Dimensions



Parts Handler 6GX

SANDEX

6GX Dimensions



6GW

Specifications

Table 6GW-1

Item	Symbol	Unit	Value	Item	Symbol	Unit	Value	Item	Symbol	Unit	Value
Output allowable load, stroke I, II	W_0	N	Refer to Carrying Capacity Table	Input allowable axial load	P_2	N	1078	Spur gear pressure angle	F_1	deg	20
Output static allowable load in the direction of V and W surface	P_1	N	147	Input maximum repetitious bending force	P_3	N	1078	Spur gear module	F_2		2.5
Output bending rigidity	K_1	mm/N	1.33×10^{-2}	Input maximum repetitious allowable torque	P_4	N·m	107.8	Spur gear number of teeth	F_3		31
Output internal load, stroke I	W_{a1}	N	9.8	Input torsional rigidity	K_2	N·m/rad	1.42×10^4	Spur gear pitch circle diameter	F_4	mm	77.5
Output internal load, stroke II	W_{a2}	N	16.17	Input inertia	J_1	kg·m ²	4.75×10^{-3}	Spur gear allowable continuous output torque	F_5	N·m	294
Housing color			Beige	Product weight		kg	約20	Spur gear proper clearance	F_6	μm	60~180

Note : Input inertia : J is calculated in dwell.

(1N=0.102kgf)

6GX

Specifications

Table 6GX-1

Item	Symbol	Unit	Value	Item	Symbol	Unit	Value	Item	Symbol	Unit	Value
Output allowable load, stroke II	P_1	N	2450	Input torsional rigidity	K_2	N·m/rad	1.47×10^5	Spur gear pressure angle	F_1	deg	20
Output static allowable load in the direction of V and W surface	P_2	N	2450	Input inertia	J_1	kg·m ²	2.5×10^{-3}	Spur gear module	F_2		2.5
Output bending rigidity	K_1	mm/N	5.10×10^{-6}	Repetitive accuracy		mm	±0.02	Spur gear number of teeth	F_3		31
Output internal load, stroke II	W_{a2}	N	34.3	Housing color			Beige	Spur gear pitch circle diameter	F_4	mm	77.5
				Product weight		kg	約18	Spur gear allowable continuous output torque	F_5	N·m	294
								Spur gear proper clearance	F_6	μm	60~180

Note : Input inertia : J is calculated in dwell.

(1N=0.102kgf)

8GI Dimensions

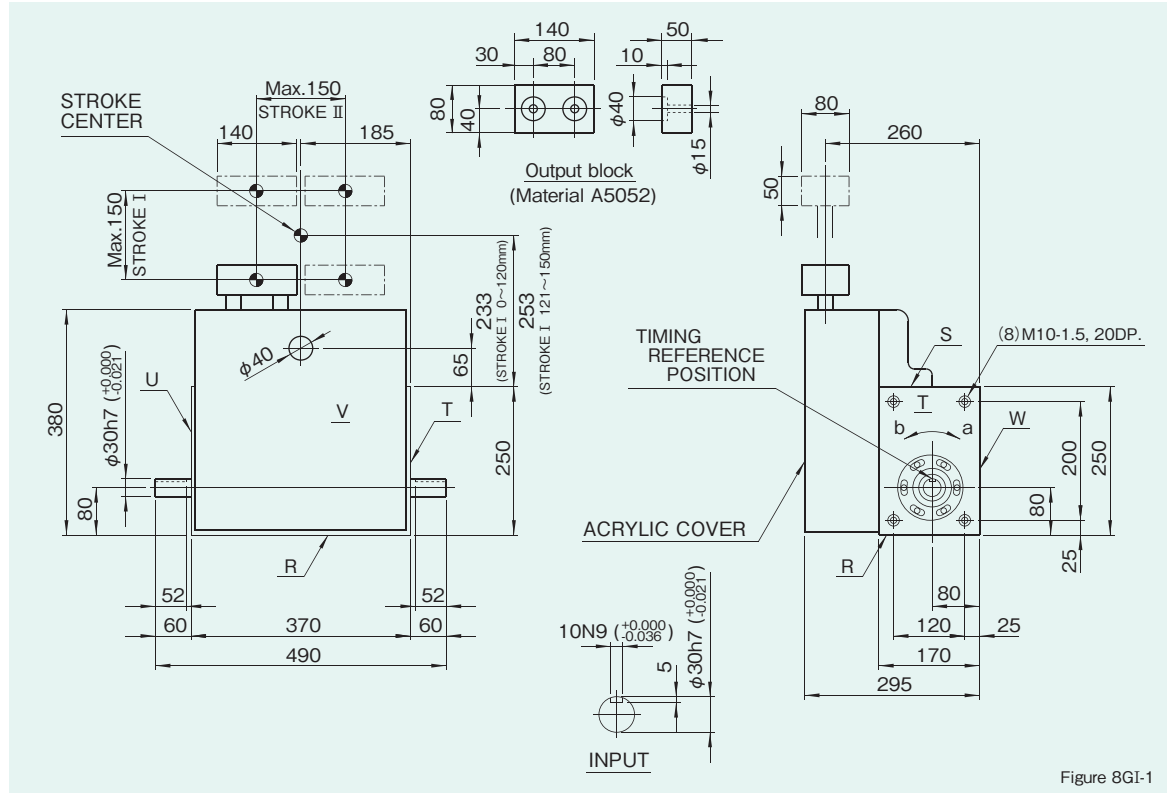
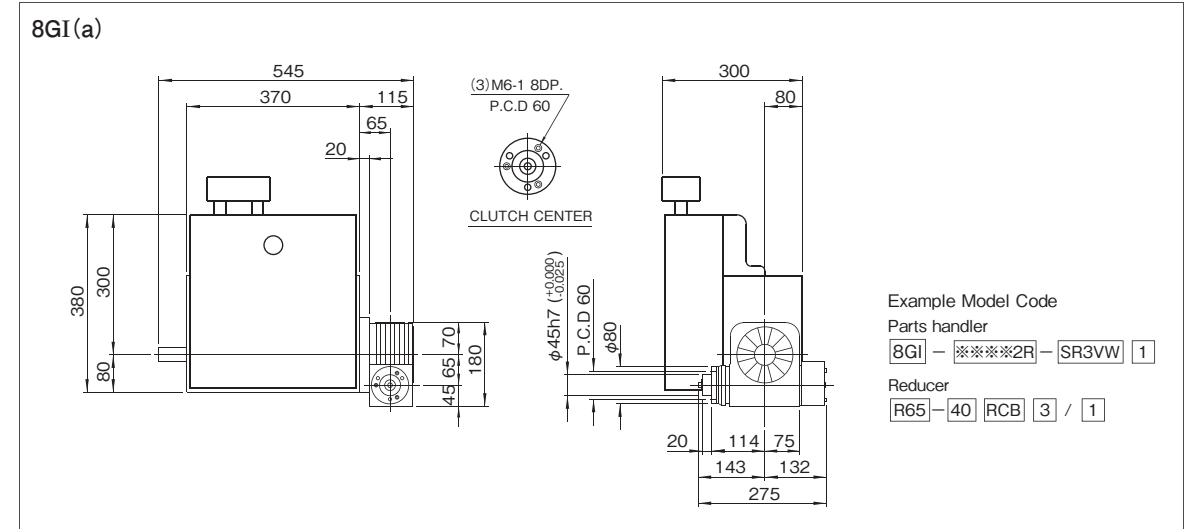


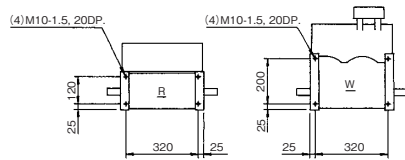
Figure 8GI-1

Mounted accessories



Mounting hole locations

Figure 8GI-2



Dimension of R and W surface

Location of oil plug, etc., and oil capacity

Figure 8GI-3

Mounting position	1	5
Location		
Oil capacity (ℓ)	4	2.5

Precautions

- Each point indicated in the mounting positions shown in Figure 8GI-3 represents (starting at top) the oil plug (PT1/2), oil level (VA), and drain (PT1/2).
- The mounting positions correspond to code j for the indexing, oscillating drives.
- The oil levels indicated in Figure 8GI-3 are given in general figures and will differ according to the profile of the cam and the number of cam followers.

Specifications

Table 8GI-1

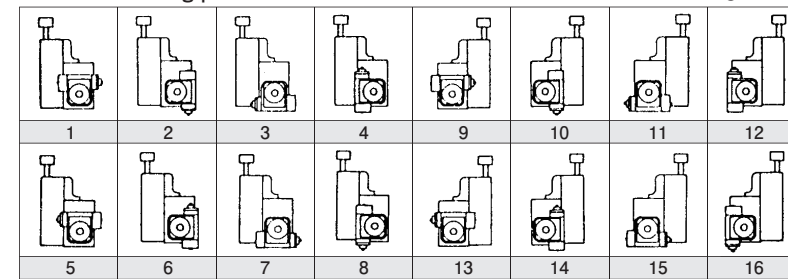
Item	Symbol	Unit	Value	Item	Symbol	Unit	Value	Item	Symbol	Unit	Value
Output allowable load, stroke I, II	W_0	N	Refer to Carrying Capacity Table	Input allowable axial load	P_2	N	2254	Housing color			Gray
Output static allowable load in the direction of V and W surface	P_1	N	147	Input maximum repetitious bending force	P_3	N	3822	Product weight		kg	75
Output bending rigidity in the direction of V and W surface	K_1	mm/N	3.27×10^{-4}	Input maximum repetitious allowable torque	P_4	N·m	392	Repetitive accuracy		mm	± 0.02
Output internal load, stroke I	W_{a1}	N	53.9	Input torsional rigidity	K_2	N·m/rad	1.86×10^4				
Output internal load, stroke II	W_{a2}	N	78.4	Input inertia	J_1	kg·m ²	2.15×10^{-2}				

Note : Input inertia : J is calculated in dwell.

(1N=0.102kgf)

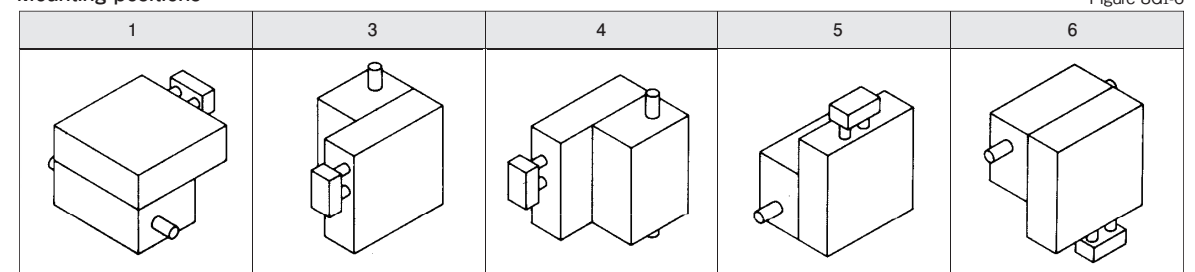
Reducer mounting positions

Figure 8GI-5



Mounting positions

Figure 8GI-6



8GII Dimensions

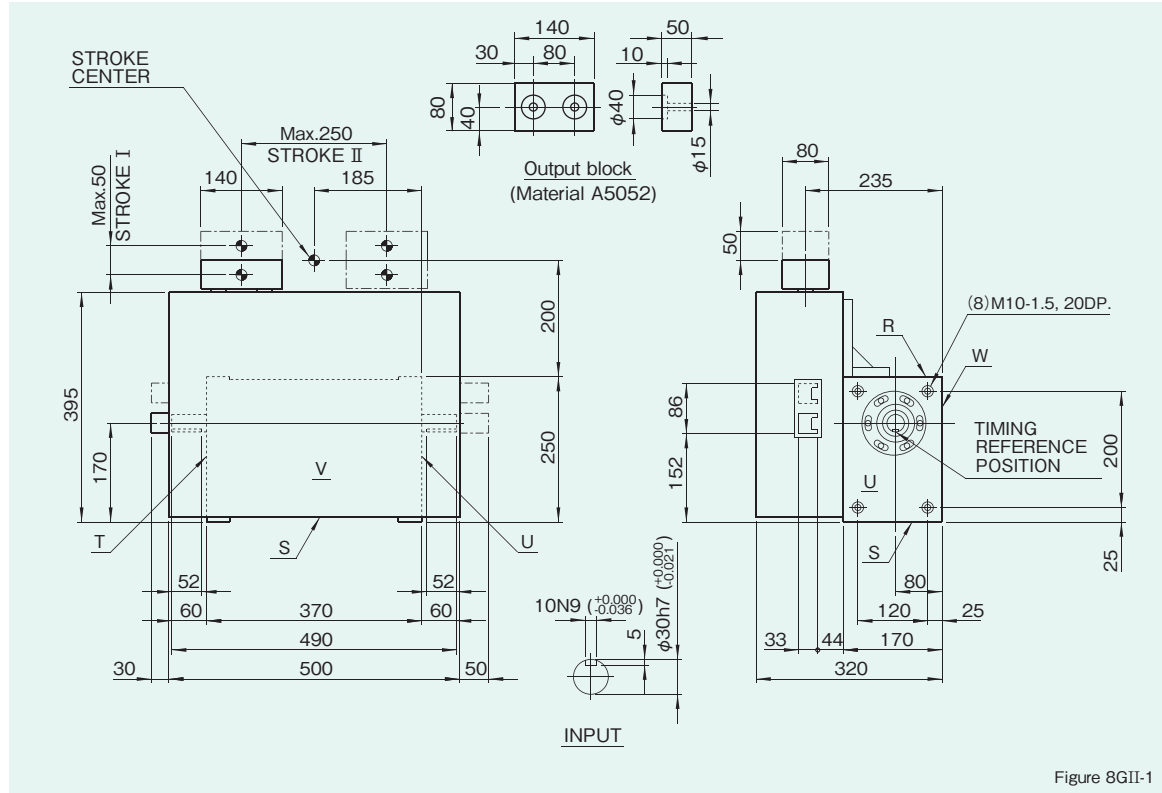
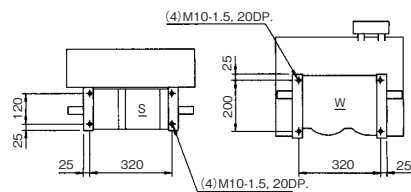


Figure 8GII-1

Mounting hole locations

Figure 8GII-2



Dimension of S and W surface

Location of oil plug, etc., and oil capacity

Figure 8GII-3

Mounting position	1	6
Location		
Oil capacity (ℓ)	4	4.7

Precautions

- Each point indicated in the mounting positions shown in Figure 8GII-3 represents (starting at top) the oil plug (PT1/2), oil level (VA), and drain (PT1/2).
- The mounting positions correspond to code j for the indexing, oscillating drives.
- The oil levels indicated in Figure 8GII-3 are given in general figures and will differ according to the profile of the cam and the number of cam followers.

Specifications

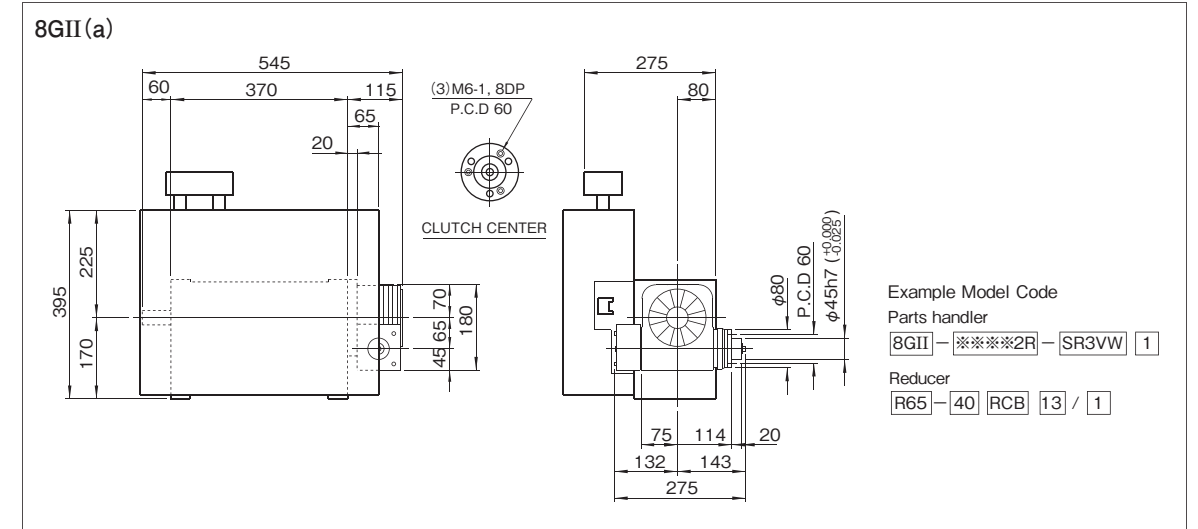
Table 8GII-1

Item	Symbol	Unit	Value	Item	Symbol	Unit	Value	Item	Symbol	Unit	Value
Output allowable load, stroke I, II	W_0	N	Refer to Carrying Capacity Table	Input allowable axial load	P_2	N	2254	Housing color			Gray
Output static allowable load in the direction of V and W surface	P_1	N	324.3	Input maximum repetitious bending force	P_3	N	3822	Product weight		kg	80
Output bending rigidity in the direction of V and W surface	K_1	mm/N	1.02×10^{-4}	Input maximum repetitious allowable torque	P_4	N·m	392	Repetitive accuracy		mm	± 0.02
Output internal load, stroke I	W_{a1}	N	53.9	Input torsional rigidity	K_2	N·m/rad	1.86×10^4				
Output internal load, stroke II	W_{a2}	N	93.1	Input inertia	J_1	kg·m ²	2.15×10^{-2}				

Note : Input inertia : J is calculated in dwell.

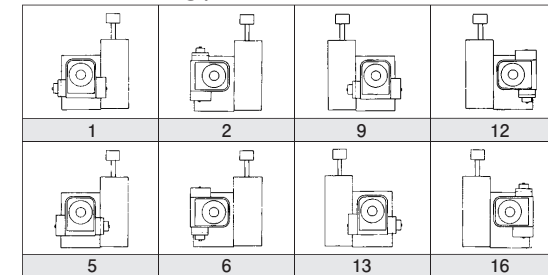
(1N=0.102kgf)

Mounted accessories



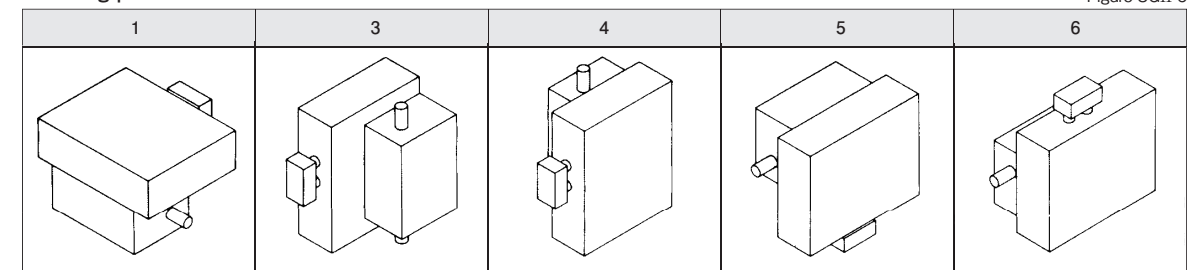
Reducer mounting positions

Figure 8GII-5



Mounting positions

Figure 8GII-6



15GI Dimensions

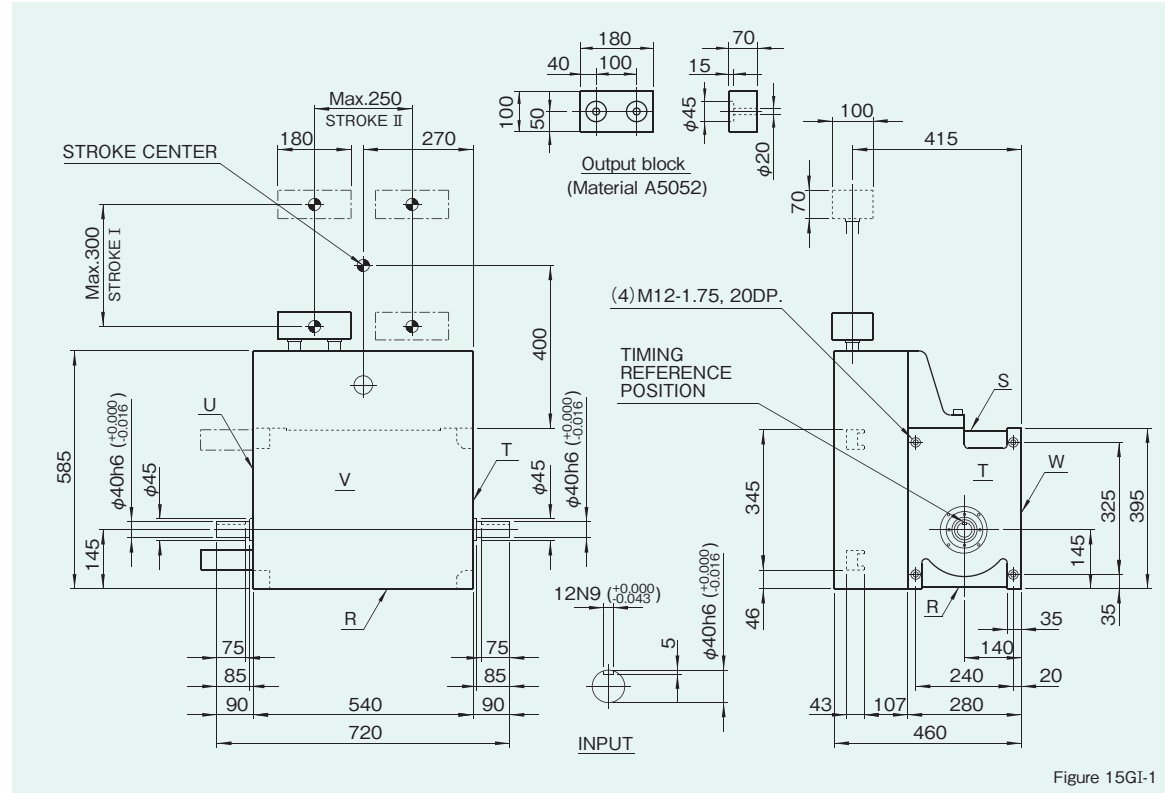
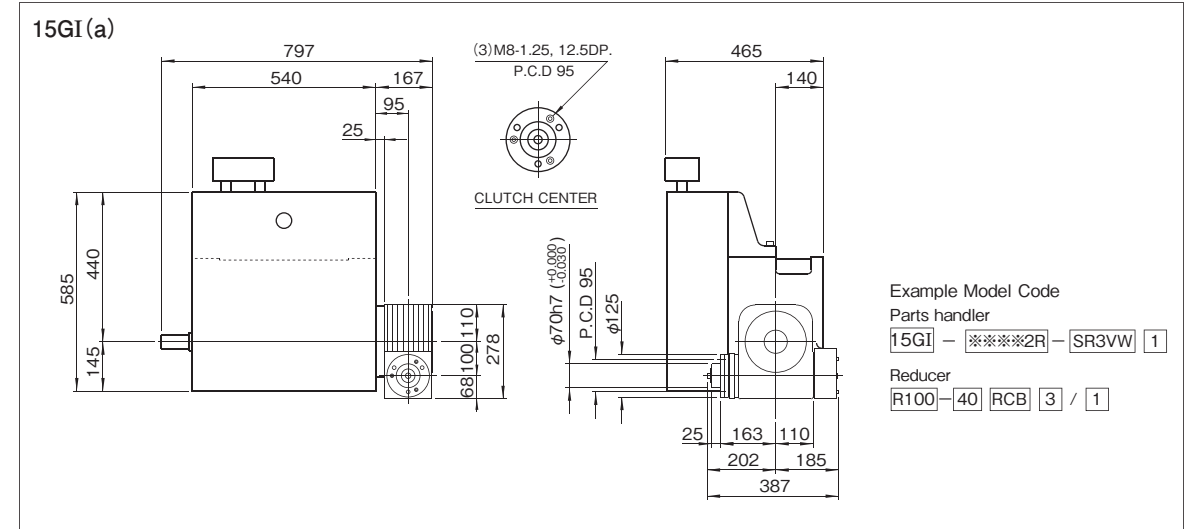


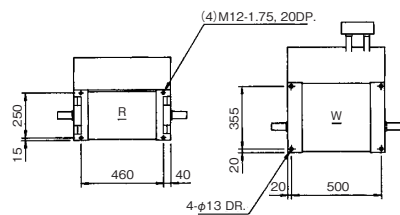
Figure 15GI-1

Mounted accessories



Example Model Code
 Parts handler
 15GI - ※※※2R - SR3VW 1
 Reducer
 R100 - 40 RCB 3 / 1

Mounting hole locations Figure 15GI-2



Dimension of R and W surface

Location of oil plug, etc., and oil capacity Figure 15GI-3

Mounting position	1	5
Location		
Oil capacity (ℓ)	17	11

Precautions

- Each point indicated in the mounting positions shown in Figure 15GI-3 represents (starting at top) the oil plug (PT1/2), oil level (VA), and drain (PT1/2).
- The mounting positions correspond to code j for the indexing, oscillating drives.
- The oil levels indicated in Figure 15GI-3 are given in general figures and will differ according to the profile of the cam and the number of cam followers.

Specifications

Item	Symbol	Unit	Value	Item	Symbol	Unit	Value	Item	Symbol	Unit	Value
Output allowable load, stroke I, II	W ₀	N	Refer to Carrying Capacity Table	Input allowable axial load	P ₂	N	4508	Housing color			Gray
Output static allowable load in the direction of V and W surface	P ₁	N	296.9	Input maximum repetitious bending force	P ₃	N	6860	Product weight		kg	260
Output bending rigidity in the direction of V and W surface	K ₁	mm/N	2.04×10 ⁻³	Input maximum repetitious allowable torque	P ₄	N·m	921.2	Repetitive accuracy		mm	±0.03
Output internal load, stroke I	W _{a1}	N	137.2	Input torsional rigidity	K ₂	N·m/rad	8.82×10 ⁴				
Output internal load, stroke II	W _{a2}	N	205.8	Input inertia	J ₁	kg·m ²	0.158				

Note : Input inertia : J is calculated in dwell.

(1N=0.102kgf)

Reducer mounting positions

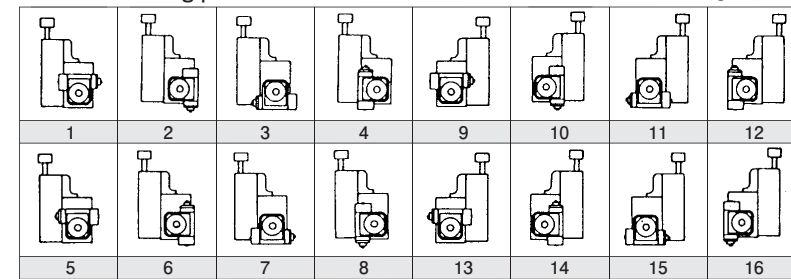


Figure 15GI-5

Mounting positions

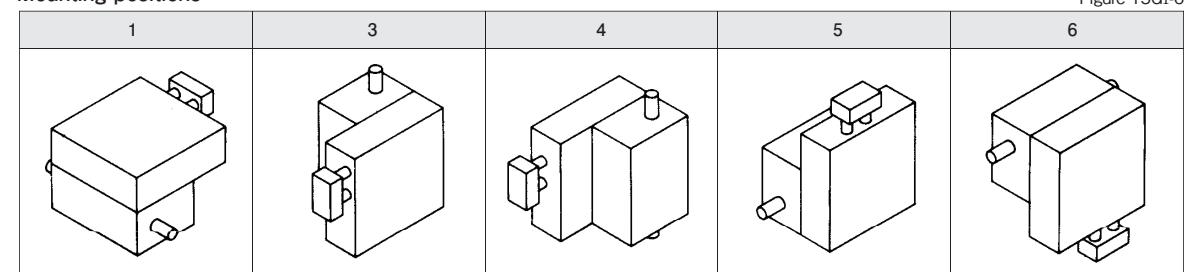


Figure 15GI-6

15GII Dimensions

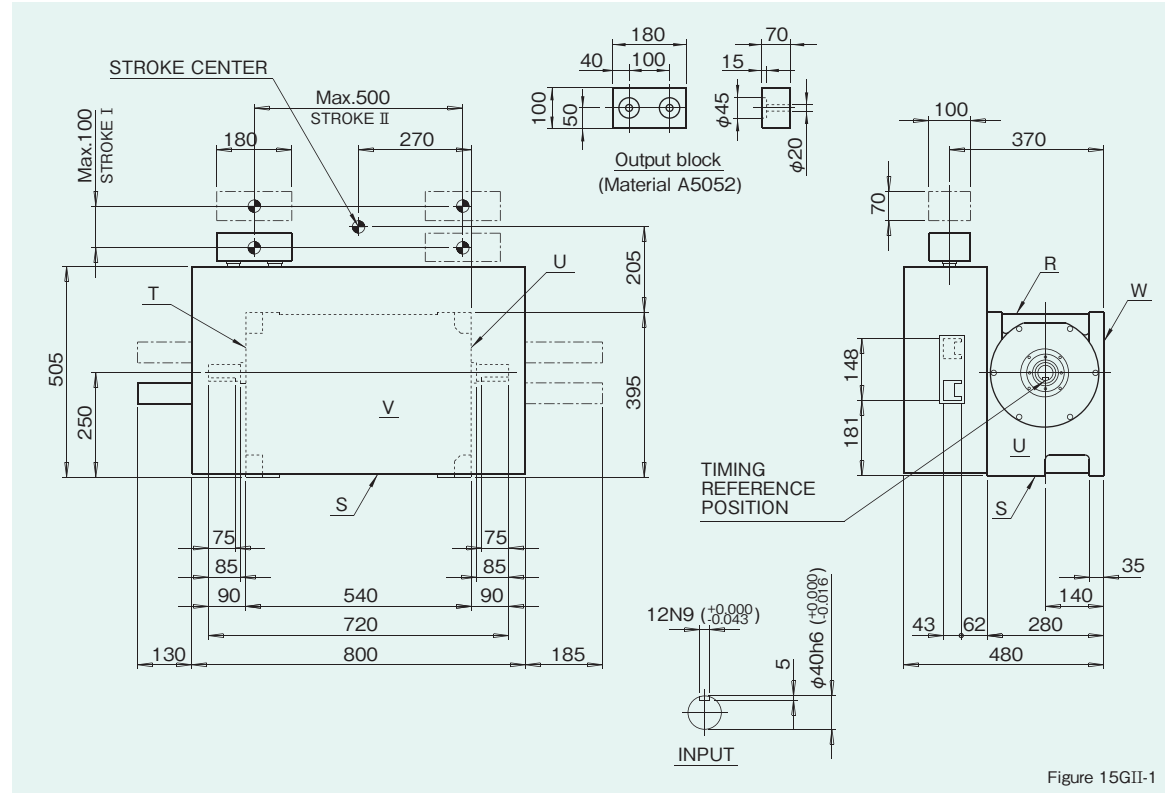
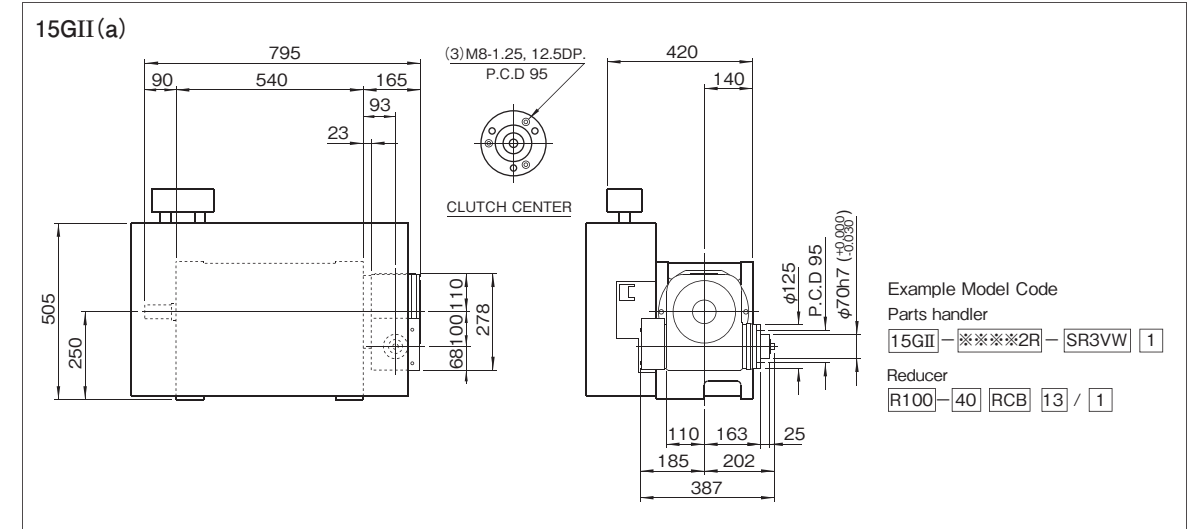


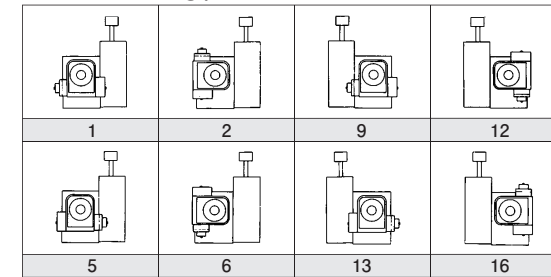
Figure 15GII-1

Mounted accessories



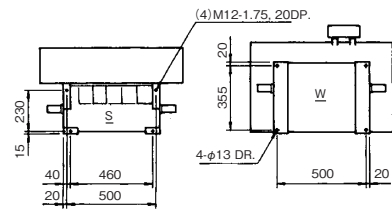
Reducer mounting positions

Figure 15GII-5



Mounting hole locations

Figure 15GII-2



Dimension of S and W surface

Location of oil plug, etc., and oil capacity

Figure 15GII-3

Mounting position	1	6
Location		
Oil capacity (ℓ)	17	18.5

Precautions

- Each point indicated in the mounting positions shown in Figure 15GII-3 represents (starting at top) the oil plug (PT1/2), oil level (VA), and drain (PT1/2).
- The mounting positions correspond to code j for the indexing, oscillating drives.
- The oil levels indicated in Figure 15GII-3 are given in general figures and will differ according to the profile of the cam and the number of cam followers.

Specifications

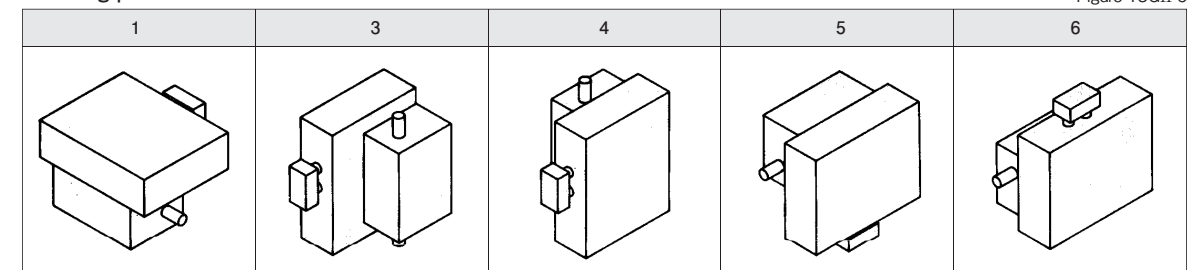
Item	Symbol	Unit	Value	Item	Symbol	Unit	Value	Item	Symbol	Unit	Value
Output allowable load, stroke I, II	W_0	N	Refer to Carrying Capacity Table	Input allowable axial load	P_2	N	4508	Housing color			Gray
Output static allowable load in the direction of V and W surface	P_1	N	453.7	Input maximum repetitious bending force	P_3	N	6860	Product weight		kg	280
Output bending rigidity in the direction of V and W surface	K_1	mm/N	2.04×10^{-4}	Input maximum repetitious allowable torque	P_4	N·m	921.2	Repetitive accuracy		mm	± 0.03
Output internal load, stroke I	W_{a1}	N	127.4	Input torsional rigidity	K_2	N·m/rad	8.82×10^4				
Output internal load, stroke II	W_{a2}	N	215.6	Input inertia	J_1	kg·m ²	0.158				

Note : Input inertia : J is calculated in dwell.

(1N=0.102kgf)

Mounting positions

Figure 15GII-6

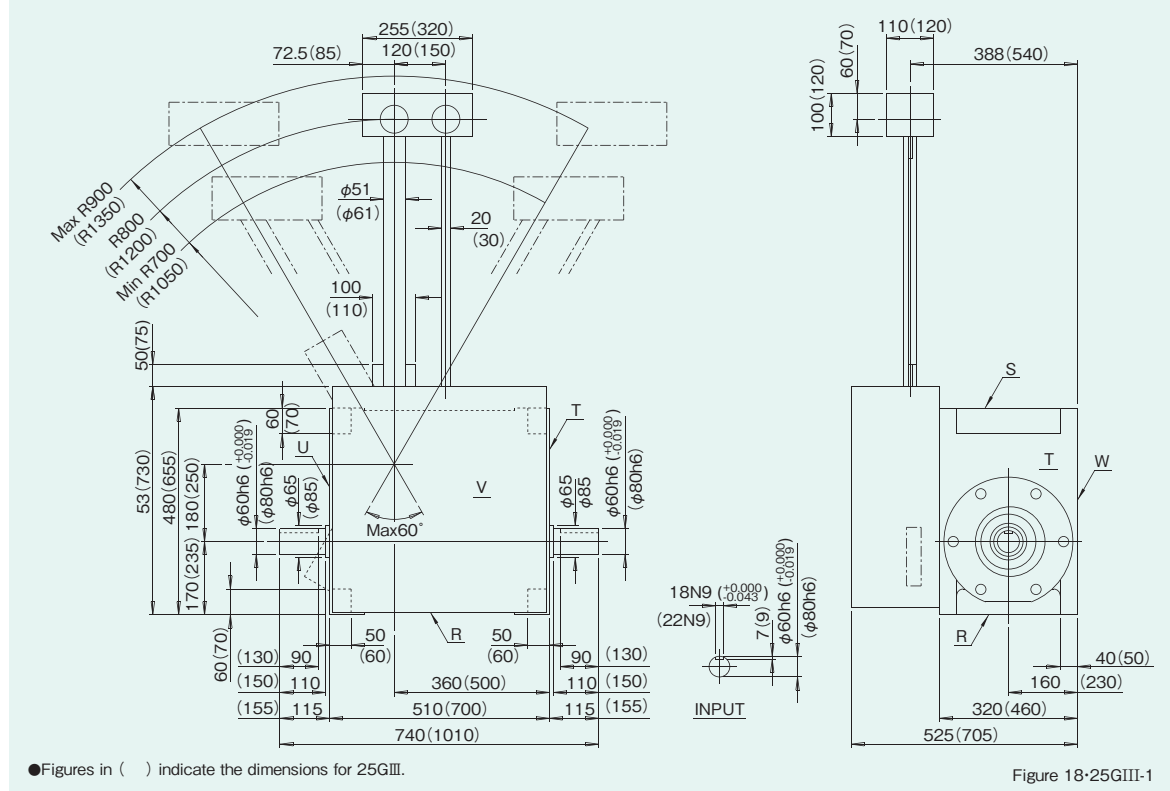




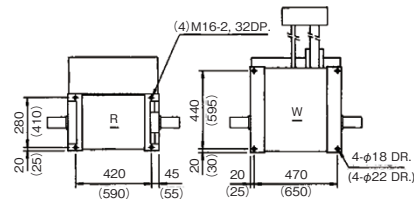
Parts Handler 18GIII·25GIII **Discontinued**

SANDEX

18GIII·25GIII Dimensions



Mounting hole locations Figure 18-25GIII-2



Dimension of R and W surface

Location of oil plug, etc., and oil capacity Figure 18-25GIII-1

Mounting position	1	5
Location		
Oil capacity (ℓ)	20.5	8

Precautions

- Each point indicated in the mounting positions shown in Figure 18GIII-3 represents (starting at top) the oil plug (PT1/2), oil level (VA), and drain (PT1/2).
- The mounting positions correspond to code j for the indexing, oscillating drives.
- The oil levels indicated in Figure 18GIII-3 are given in general figures and will differ according to the profile of the cam and the number of cam followers.

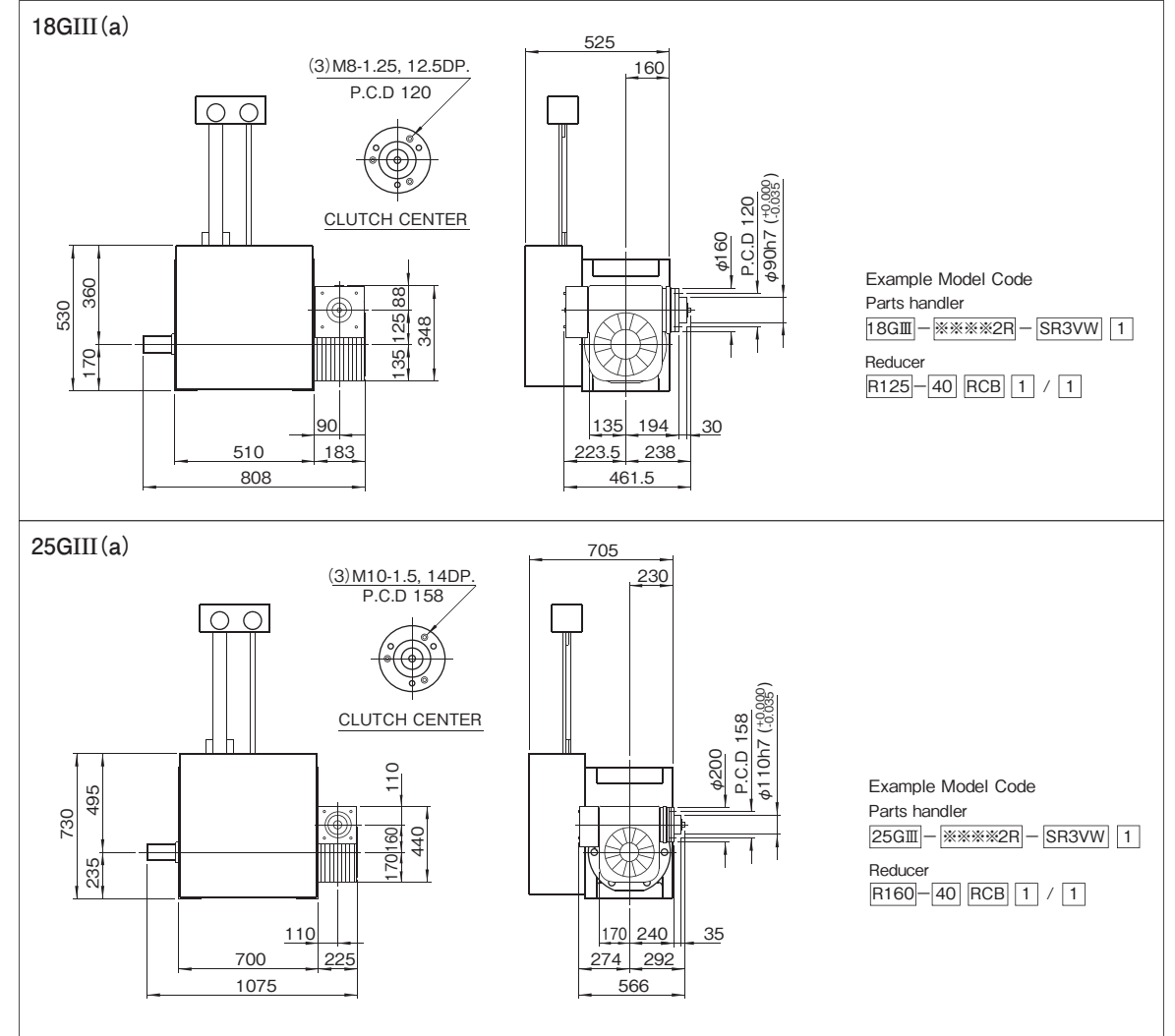
Specifications

Item	Symbol	Unit	Value	Item	Symbol	Unit	Value	Item	Symbol	Unit	Value
Output allowable load, stroke I, II	W ₀	N	Refer to Carrying Capacity Table	Input allowable axial load	P ₂	N	10780 (15190)	Housing color			Gray
Output static allowable load in the direction of V and W surface	P ₁	N	294 (294)	Input maximum repetitious bending force	P ₃	N	18620 (31360)	Product weight	kg		430 (950)
Output bending rigidity in the direction of V and W surface	K ₁	mm/N	4.08×10 ⁻³ (7.14×10 ⁻³)	Input maximum repetitious allowable torque	P ₄	N·m	4116 (9800)	Repetitive accuracy	mm		±0.05 (±0.07)
Output internal load, stroke I	W _{a1}	N	333.2 (539)	Input torsional rigidity	K ₂	N·m / rad	3.14×10 ⁵ (7.15×10 ⁵)				
Output internal load, stroke II	J _{a2}	N	7.5 (28.8)	Input inertia	J ₁	kg·m ²	0.25 (0.95)				

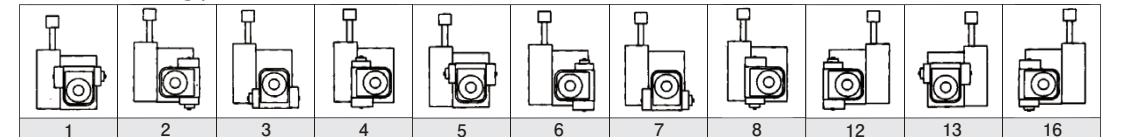
Note : Input inertia : J is calculated in dwell.

·Figures in () indicate the dimensions for 25GIII. (1N=0.102kgf)

Mounted accessories



Reducer mounting positions



Mounting positions

